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Dutch Bros Coffee - 22115 Barton Road, Grand Terrace, CA, 92313 Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

3.3. Site Preparation (2025) - Unmitigated

3.5. Grading (2025) - Unmitigated

3.7. Building Construction (2025) - Unmitigated

3.9. Paving (2025) - Unmitigated

3.11. Architectural Coating (2025) - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Dutch Bros Coffee - 22115 Barton Road, Grand Terrace, CA, 92313
Construction Start Date	1/1/2025
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.20
Precipitation (days)	14.2
Location	34.0336419570061, -117.32205396460452
County	San Bernardino-South Coast
City	Grand Terrace
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5376
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.25

1.2. Land Use Types

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

Fast Food Restaurant with Drive Thru	0.95	1000sqft	0.59	950	21,692	0.00	—	—
Parking Lot	9.00	Space	0.41	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.28	1.07	8.95	10.1	0.02	0.33	0.01	0.33	0.30	< 0.005	0.30	—	1,812	1,812	0.07	0.02	0.03	1,818
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.85	1.55	14.1	15.9	0.02	0.64	2.89	3.54	0.59	1.37	1.96	—	2,710	2,710	0.11	0.04	0.02	2,724
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.90	0.75	6.05	6.85	0.01	0.23	0.07	0.29	0.21	0.03	0.24	—	1,217	1,217	0.05	0.01	0.04	1,221
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.16	0.14	1.10	1.25	< 0.005	0.04	0.01	0.05	0.04	< 0.005	0.04	—	201	201	0.01	< 0.005	0.01	202

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.28	1.07	8.95	10.1	0.02	0.33	0.01	0.33	0.30	< 0.005	0.30	—	1,812	1,812	0.07	0.02	0.03	1,818
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.85	1.55	14.1	15.9	0.02	0.64	2.89	3.54	0.59	1.37	1.96	—	2,710	2,710	0.11	0.04	0.02	2,724
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.90	0.75	6.05	6.85	0.01	0.23	0.07	0.29	0.21	0.03	0.24	—	1,217	1,217	0.05	0.01	0.04	1,221
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.16	0.14	1.10	1.25	< 0.005	0.04	0.01	0.05	0.04	< 0.005	0.04	—	201	201	0.01	< 0.005	0.01	202

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.39	6.85	4.89	44.6	0.10	0.07	8.73	8.80	0.07	2.22	2.29	6.45	10,513	10,519	1.23	0.52	36.6	10,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.89	6.34	5.24	38.7	0.10	0.07	8.73	8.80	0.07	2.22	2.29	6.45	9,872	9,878	1.26	0.53	2.40	10,071
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.84	6.29	5.31	40.0	0.10	0.07	8.65	8.72	0.07	2.20	2.27	6.45	9,971	9,978	1.26	0.54	16.6	10,187

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.25	1.15	0.97	7.29	0.02	0.01	1.58	1.59	0.01	0.40	0.41	1.07	1,651	1,652	0.21	0.09	2.76	1,686

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.35	6.82	4.86	44.5	0.10	0.07	8.73	8.80	0.07	2.22	2.28	—	10,428	10,428	0.58	0.52	35.1	10,631
Area	0.03	0.03	< 0.005	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.17	0.17	< 0.005	< 0.005	—	0.17
Energy	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	81.4	81.4	0.01	< 0.005	—	81.8
Water	—	—	—	—	—	—	—	—	—	—	—	0.55	3.62	4.17	0.06	< 0.005	—	6.01
Waste	—	—	—	—	—	—	—	—	—	—	—	5.90	0.00	5.90	0.59	0.00	—	20.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.49	1.49
Total	7.39	6.85	4.89	44.6	0.10	0.07	8.73	8.80	0.07	2.22	2.29	6.45	10,513	10,519	1.23	0.52	36.6	10,741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.86	6.32	5.21	38.7	0.10	0.07	8.73	8.80	0.07	2.22	2.28	—	9,787	9,787	0.61	0.53	0.91	9,961
Area	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	81.4	81.4	0.01	< 0.005	—	81.8
Water	—	—	—	—	—	—	—	—	—	—	—	0.55	3.62	4.17	0.06	< 0.005	—	6.01
Waste	—	—	—	—	—	—	—	—	—	—	—	5.90	0.00	5.90	0.59	0.00	—	20.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.49	1.49
Total	6.89	6.34	5.24	38.7	0.10	0.07	8.73	8.80	0.07	2.22	2.29	6.45	9,872	9,878	1.26	0.53	2.40	10,071
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	6.80	6.26	5.29	39.9	0.10	0.07	8.65	8.72	0.07	2.20	2.26	—	9,886	9,886	0.61	0.54	15.2	10,077
Area	0.03	0.03	< 0.005	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.12	0.12	< 0.005	< 0.005	—	0.12
Energy	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	81.4	81.4	0.01	< 0.005	—	81.8
Water	—	—	—	—	—	—	—	—	—	—	—	0.55	3.62	4.17	0.06	< 0.005	—	6.01
Waste	—	—	—	—	—	—	—	—	—	—	—	5.90	0.00	5.90	0.59	0.00	—	20.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.49	1.49
Total	6.84	6.29	5.31	40.0	0.10	0.07	8.65	8.72	0.07	2.20	2.27	6.45	9,971	9,978	1.26	0.54	16.6	10,187
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.24	1.14	0.96	7.28	0.02	0.01	1.58	1.59	0.01	0.40	0.41	—	1,637	1,637	0.10	0.09	2.51	1,668
Area	0.01	0.01	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Energy	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.5	13.5	< 0.005	< 0.005	—	13.5
Water	—	—	—	—	—	—	—	—	—	—	—	0.09	0.60	0.69	0.01	< 0.005	—	0.99
Waste	—	—	—	—	—	—	—	—	—	—	—	0.98	0.00	0.98	0.10	0.00	—	3.42
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.25	0.25
Total	1.25	1.15	0.97	7.29	0.02	0.01	1.58	1.59	0.01	0.40	0.41	1.07	1,651	1,652	0.21	0.09	2.76	1,686

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

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

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

Off-Road Equipment	1.75	1.47	13.9	15.1	0.02	0.57	—	0.57	0.52	—	0.52	—	2,494	2,494	0.10	0.02	—	2,502
Demolition	—	—	—	—	—	—	0.07	0.07	—	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	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.76	0.83	< 0.005	0.03	—	0.03	0.03	—	0.03	—	137	137	0.01	< 0.005	—	137
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.14	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	22.6	22.6	< 0.005	< 0.005	—	22.7
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.73	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	161	161	0.01	0.01	0.02	164
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.07	0.04	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	55.3	55.3	0.01	0.01	< 0.005	58.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.97	8.97	< 0.005	< 0.005	0.02	9.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.03	3.03	< 0.005	< 0.005	< 0.005	3.19
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.49	1.49	< 0.005	< 0.005	< 0.005	1.51
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.50	0.50	< 0.005	< 0.005	< 0.005	0.53

3.3. 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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.56	1.31	12.1	12.1	0.02	0.56	—	0.56	0.52	—	0.52	—	2,065	2,065	0.08	0.02	—	2,072
Dust From Material Movement	—	—	—	—	—	—	2.44	2.44	—	1.17	1.17	—	—	—	—	—	—	—
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	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.4

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	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.87	1.87	< 0.005	< 0.005	—	1.88
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.04	0.44	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	96.9	96.9	< 0.005	< 0.005	0.01	98.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.54	0.54	< 0.005	< 0.005	< 0.005	0.55
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.80	1.51	14.1	14.5	0.02	0.64	—	0.64	0.59	—	0.59	—	2,455	2,455	0.10	0.02	—	2,463
Dust From Material Movement	—	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—	—
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	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.9	26.9	< 0.005	< 0.005	—	27.0
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	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.45	4.45	< 0.005	< 0.005	—	4.47

Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.05	0.59	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	129	129	0.01	< 0.005	0.01	131
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.44	1.44	< 0.005	< 0.005	< 0.005	1.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.24	0.24	< 0.005	< 0.005	< 0.005	0.24
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2025) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	8.95	10.0	0.02	0.33	—	0.33	0.30	—	0.30	—	1,801	1,801	0.07	0.01	—	1,807
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	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	8.95	10.0	0.02	0.33	—	0.33	0.30	—	0.30	—	1,801	1,801	0.07	0.01	—	1,807
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	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.70	0.58	4.90	5.50	0.01	0.18	—	0.18	0.17	—	0.17	—	987	987	0.04	0.01	—	990
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	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.89	1.00	< 0.005	0.03	—	0.03	0.03	—	0.03	—	163	163	0.01	< 0.005	—	164
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	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.62	5.62	< 0.005	< 0.005	0.02	5.71
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.80	4.80	< 0.005	< 0.005	0.01	5.04
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	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.15	5.15	< 0.005	< 0.005	< 0.005	5.22
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.81	4.81	< 0.005	< 0.005	< 0.005	5.03
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	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.86	2.86	< 0.005	< 0.005	< 0.005	2.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.63	2.63	< 0.005	< 0.005	< 0.005	2.76
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.48
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.44	0.44	< 0.005	< 0.005	< 0.005	0.46
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	0.49	4.63	6.50	0.01	0.20	—	0.20	0.19	—	0.19	—	992	992	0.04	0.01	—	995
Paving	0.11	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.13	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	27.2	27.2	< 0.005	< 0.005	—	27.3
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.50	4.50	< 0.005	< 0.005	—	4.51
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.73	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	161	161	0.01	0.01	0.02	164
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.49	4.49	< 0.005	< 0.005	0.01	4.55
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.74	0.74	< 0.005	< 0.005	< 0.005	0.75

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. 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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	1.38	1.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.66	3.66	< 0.005	< 0.005	—	3.67
Architectural Coatings	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	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.61	0.61	< 0.005	< 0.005	—	0.61

Architect Coatings	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	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.03	1.03	< 0.005	< 0.005	< 0.005	1.04
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	7.35	6.82	4.86	44.5	0.10	0.07	8.73	8.80	0.07	2.22	2.28	—	10,428	10,428	0.58	0.52	35.1	10,631
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	0.00	0.00
Total	7.35	6.82	4.86	44.5	0.10	0.07	8.73	8.80	0.07	2.22	2.28	—	10,428	10,428	0.58	0.52	35.1	10,631
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	6.86	6.32	5.21	38.7	0.10	0.07	8.73	8.80	0.07	2.22	2.28	—	9,787	9,787	0.61	0.53	0.91	9,961
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	0.00	0.00
Total	6.86	6.32	5.21	38.7	0.10	0.07	8.73	8.80	0.07	2.22	2.28	—	9,787	9,787	0.61	0.53	0.91	9,961
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	1.24	1.14	0.96	7.28	0.02	0.01	1.58	1.59	0.01	0.40	0.41	—	1,637	1,637	0.10	0.09	2.51	1,668
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	0.00	0.00
Total	1.24	1.14	0.96	7.28	0.02	0.01	1.58	1.59	0.01	0.40	0.41	—	1,637	1,637	0.10	0.09	2.51	1,668

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	31.6	31.6	< 0.005	< 0.005	—	31.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	15.0	15.0	< 0.005	< 0.005	—	15.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	46.6	46.6	< 0.005	< 0.005	—	46.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	31.6	31.6	< 0.005	< 0.005	—	31.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	15.0	15.0	< 0.005	< 0.005	—	15.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	46.6	46.6	< 0.005	< 0.005	—	46.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	5.23	5.23	< 0.005	< 0.005	—	5.26

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	2.48	2.48	< 0.005	< 0.005	—	2.50
Total	—	—	—	—	—	—	—	—	—	—	—	—	7.71	7.71	< 0.005	< 0.005	—	7.76

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	34.8	34.8	< 0.005	< 0.005	—	34.9
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
Total	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	34.8	34.8	< 0.005	< 0.005	—	34.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	34.8	34.8	< 0.005	< 0.005	—	34.9
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
Total	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	34.8	34.8	< 0.005	< 0.005	—	34.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Fast Food Restaurant with Drive Thru	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.76	5.76	< 0.005	< 0.005	—	5.78
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
Total	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.76	5.76	< 0.005	< 0.005	—	5.78

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	0.01	< 0.005	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.17	0.17	< 0.005	< 0.005	—	0.17
Total	0.03	0.03	< 0.005	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.17	0.17	< 0.005	< 0.005	—	0.17
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Total	0.01	0.01	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.02	0.02	< 0.005	< 0.005	—	0.02

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.55	3.62	4.17	0.06	< 0.005	—	6.01
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.55	3.62	4.17	0.06	< 0.005	—	6.01

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.55	3.62	4.17	0.06	< 0.005	—	6.01
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.55	3.62	4.17	0.06	< 0.005	—	6.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.09	0.60	0.69	0.01	< 0.005	—	0.99
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.09	0.60	0.69	0.01	< 0.005	—	0.99

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.90	0.00	5.90	0.59	0.00	—	20.6

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5.90	0.00	5.90	0.59	0.00	—	20.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.90	0.00	5.90	0.59	0.00	—	20.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5.90	0.00	5.90	0.59	0.00	—	20.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.98	0.00	0.98	0.10	0.00	—	3.42
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.98	0.00	0.98	0.10	0.00	—	3.42

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.49	1.49
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.49	1.49
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.49	1.49
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.49	1.49
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.25	0.25
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.25	0.25

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

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

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

4.10.3. 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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	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
Demolition	Demolition	1/1/2025	1/29/2025	5.00	20.0	—
Site Preparation	Site Preparation	1/30/2025	2/1/2025	5.00	2.00	—

Grading	Grading	2/2/2025	2/7/2025	5.00	4.00	—
Building Construction	Building Construction	2/8/2025	11/15/2025	5.00	200	—
Paving	Paving	11/16/2025	11/30/2025	5.00	10.0	—
Architectural Coating	Architectural Coating	12/1/2025	12/15/2025	5.00	10.0	—

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
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Demolition	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Graders	Diesel	Average	1.00	8.00	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	7.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	7.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Cranes	Diesel	Average	1.00	6.00	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	6.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Building Construction	Welders	Diesel	Average	3.00	8.00	46.0	0.45
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	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	7.00	36.0	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	6.00	10.0	0.56
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	12.5	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	0.80	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	7.50	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	10.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.40	18.5	LDA,LDT1,LDT2

Building Construction	Vendor	0.16	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	12.5	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.08	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

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	1,425	475	1,083

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Ton of Debris)	Material Exported (Ton of Debris)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)

Demolition	0.00	0.00	0.00	1,341	—
Site Preparation	0.00	0.00	0.00	0.00	—
Grading	0.00	0.00	0.00	0.00	—
Paving	0.00	0.00	0.00	0.00	0.41

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
Fast Food Restaurant with Drive Thru	0.00	0%
Parking Lot	0.41	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	349	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Fast Food Restaurant with Drive Thru	1,912	1,912	1,912	697,880	12,306	12,306	12,306	4,491,784
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	1,425	475	1,083

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Fast Food Restaurant with Drive Thru	33,313	346	0.0330	0.0040	108,557
Parking Lot	15,814	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Fast Food Restaurant with Drive Thru	288,357	348,355
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Fast Food Restaurant with Drive Thru	10.9	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

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

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.3	annual days of extreme heat
Extreme Precipitation	2.45	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (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	3	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	3	1	1	3
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	98.7
AQ-PM	87.7
AQ-DPM	92.6
Drinking Water	39.8
Lead Risk Housing	26.2
Pesticides	0.00
Toxic Releases	68.9
Traffic	85.3
Effect Indicators	—
CleanUp Sites	86.2
Groundwater	35.0
Haz Waste Facilities/Generators	61.6
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	46.7
Cardio-vascular	72.5
Low Birth Weights	67.2
Socioeconomic Factor Indicators	—
Education	39.2
Housing	31.7
Linguistic	35.3
Poverty	39.4
Unemployment	79.7

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	52.32901322
Employed	46.28512768
Median HI	54.03567304
Education	—
Bachelor's or higher	49.15950212
High school enrollment	100
Preschool enrollment	65.09688182
Transportation	—
Auto Access	31.75927114
Active commuting	2.746054151
Social	—
2-parent households	44.96342872
Voting	45.36122161
Neighborhood	—
Alcohol availability	54.92108302
Park access	42.93596818
Retail density	34.68497369
Supermarket access	52.88079045
Tree canopy	18.23431284
Housing	—
Homeownership	56.88438342
Housing habitability	36.31464134
Low-inc homeowner severe housing cost burden	63.50571025
Low-inc renter severe housing cost burden	66.29026049
Uncrowded housing	62.77428461

Health Outcomes	—
Insured adults	58.50121904
Arthritis	0.0
Asthma ER Admissions	50.2
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	38.9
Cognitively Disabled	11.9
Physically Disabled	22.7
Heart Attack ER Admissions	13.1
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	76.4
Elderly	36.8
English Speaking	83.7
Foreign-born	16.3
Outdoor Workers	38.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	68.0
Traffic Density	90.3
Traffic Access	23.0
Other Indices	—
Hardship	54.0
Other Decision Support	—
2016 Voting	67.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	70.0
Healthy Places Index Score for Project Location (b)	48.0
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
Land Use	Updated Recreational lot acreage, building square feet, landscape area, and Parking lot acreage based on the site plan prepared by Barghausen Consulting Engineers Inc 5/14/24.
Operations: Vehicle Data	Updated trip rate and percentages based on Grand Terrace Dutch Bros Transportation Impact Assessment prepared by Kittelson & Associated 3/22/24.

Dutch Bros Coffee, 22115 Barton Road, Grand Terrace

Air Quality On-Site Operational Traveling and Idling Emissions Estimates

This file was prepared by MIG, Inc.
July, 2024

Contents:

Sheet 1: On-Site Daily Emissions Estimates Summary
Sheet 2: EMFAC-Derived Composite Vehicle Trip / Idle Emission Factors
Sheet 3: Raw EMFAC2021 (v1.0.2) Emissions Rates for San Bernardino County 2024 (aggregate speed and 5 mph)

Dutch Bros Coffee, 22115 Barton Road, Grand Terrace

Sheet 1: On-Site Daily Emissions Estimates Summary

Table 1-1

Pollutant	Idling - STR EX Emission Factor (g/trip)				Traveling - RUN EX Emission Factor (g/mile)			
	Gasoline	Diesel	Plug-In Hybrid	Total	Gasoline	Diesel	Plug-In Hybrid	Total
PM10	0.002	0.000	0.000	0.002	0.009	0.000	0.000	0.009
PM2.5	0.002	0.000	0.000	0.002	0.008	0.000	0.000	0.008
NOx	0.267	0.000	0.002	0.269	0.114	0.001	0.000	0.115
ROG	0.338	0.000	0.003	0.341	0.214	0.001	0.000	0.215
CO	3.073	0.000	0.023	3.096	2.237	0.014	0.000	2.251

Note: EMFAC does not provide idling emission factors for LDA, LDT1, LDT2, MDV, or MCY vehicle types. The STR EX emissions factors are used to represent idling emissions.

Table 1-2

Pollutant	Idling Emission Factor (g/trip)	Onsite ADT	Grams per Pound	Idling Emissions (lbs/day)	Traveling Emission Factor (g/mile)	Onsite Daily VMT	Grams per Pound	Traveling Emissions (lbs/day)
PM10	0.002	1912	453.592	0.01	0.009	162.955	453.592	0.00
PM2.5	0.002			0.01	0.008			0.00
NOx	0.269			1.13	0.115			0.04
ROG	0.341			1.44	0.215			0.08
CO	3.096			13.05	2.251			0.81

Table 1-3

Pollutant	Onsite Daily Emissions (lbs/day)
PM10	0.0
PM2.5	0.0
NOx	1.2
ROG	1.5
CO	13.9

Table 1-4

Emissions Source	Maximum Daily Emissions (lbs/day)					
	ROG	NOx	CO	SO2	PM10	PM2.5
Area Sources	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Energy Demand	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Offsite Mobile Source	6.8	5.2	44.5	0.1	8.8	2.3
Onsite Mobile Sources	1.5	1.2	13.9	--	<0.1	<0.1
Total Daily Emissions	8.3	6.4	58.4	0.1	8.8	2.3
SCAQMD Regional Threshold	55	55	550	150	150	55

Source: MIG 2024

Table 1-5

Emissions Source	Maximum Daily Emissions (lbs/day)			
	NOx	CO	PM10	PM2.5
Area Sources	<0.1	<0.1	<0.1	<0.1
Energy Demand	<0.1	<0.1	<0.1	<0.1
Onsite Mobile Sources	1.2	13.9	<0.1	<0.1
Total Daily Emissions	1.2	13.9	<0.1	<0.1
SCAQMD LST Threshold	118	775	36	10

Source: MIG 2024

Dutch Bros Coffee, 22115 Barton Road, Grand Terrace

Sheet 2: EMFAC-Derived Composite Vehicle Trip / Idle Emission Factors

Table 2-1

Vehicle Category	Trip Length (feet)	Trip Length (miles)	Onsite Daily VMT	% of Trips	Onsite ADT
LDA	450	0.09	88.34	54.2%	1036.48
LDT1			6.97	4.3%	81.78
LDT2			36.83	22.6%	432.08
MCY			3.71	2.3%	43.48
MDV			27.12	16.6%	318.18
Total			162.95	100.0%	1912

Source: Kittelson 2024

Table 2-2

Vehicle Category	Vehicle Percentage by Trips			Vehicle Percentage by Miles		
	Gasoline	Diesel	Plug-In Hybrid	Gasoline	Diesel	Plug-In Hybrid
LDA	97%	0%	3%	98%	0%	2%
LDT1	100%	0%	0%	100%	0%	0%
LDT2	99%	0%	1%	99%	0%	1%
MCY	100%	0%	0%	100%	0%	0%
MDV	98%	1%	1%	98%	1%	1%

Source: EMFAC2021

Table 2-3

COMPOSITE PM10 EMISSION FACTORS							
Vehicle Category	% Fleet	Weighted STR EX (g/trip) by Vehicle Percentage			Weighted RUN EX (5 MPH) (g/mile) by Vehcile Percentage		
		Gasoline	Diesel	Plug-In Hybrid	Gasoline	Diesel	Plug-In Hybrid
LDA	54.2%	0.0019	0.0000	0.0001	0.0085	0.0001	0.0000
LDT1	4.3%	0.0031	0.0000	0.0000	0.0133	0.0001	0.0000
LDT2	22.6%	0.0019	0.0000	0.0000	0.0086	0.0000	0.0000
MCY	2.3%	0.0033	0.0000	0.0000	0.0129	0.0000	0.0000
MDV	16.6%	0.0020	0.0000	0.0000	0.0088	0.0003	0.0000
COMPOSITE EMFAC	100.0%	0.0020	0.0	0.0000	0.0089	0.0001	0.00000

Source: EMFAC2021

Table 2-4

COMPOSITE PM2.5 EMISSION FACTORS							
Vehicle Category	% Fleet	Weighted STR EX (g/trip) by Vehicle Percentage			Weighted RUN EX (5 MPH) (g/mile) by Vehcile Percentage		
		Gasoline	Diesel	Plug-In Hybrid	Gasoline	Diesel	Plug-In Hybrid
LDA	54.2%	0.0018	0.0000	0.0001	0.0078	0.0001	0.0000
LDT1	4.3%	0.0029	0.0000	0.0000	0.0123	0.0001	0.0000
LDT2	22.6%	0.0018	0.0000	0.0000	0.0079	0.0000	0.0000
MCY	2.3%	0.0031	0.0000	0.0000	0.0120	0.0000	0.0000
MDV	16.6%	0.0019	0.0000	0.0000	0.0081	0.0003	0.0000
COMPOSITE EMFAC	100.0%	0.0019	0.0	0.0000	0.0082	0.0001	0.00000

Source: EMFAC2021

Table 2-5

COMPOSITE NOx EMISSION FACTORS							
Vehicle Category	% Fleet	Weighted STR EX (g/trip) by Vehicle Percentage			Weighted RUN EX (5 MPH) (g/mile) by Vehcile Percentage		
		Gasoline	Diesel	Plug-In Hybrid	Gasoline	Diesel	Plug-In Hybrid
LDA	54.2%	0.2163	0.0000	0.0031	0.0590	0.0003	0.0000
LDT1	4.3%	0.4131	0.0000	0.0000	0.2809	0.0001	0.0000
LDT2	22.6%	0.2853	0.0000	0.0011	0.1059	0.0005	0.0000
MCY	2.3%	0.1270	0.0000	0.0000	0.8393	0.0000	0.0000
MDV	16.6%	0.3861	0.0000	0.0010	0.1612	0.0022	0.0000
COMPOSITE EMFAC	100.0%	0.2665	0.0	0.0021	0.1138	0.0007	0.00000

Source: EMFAC2021

Table 2-6

COMPOSITE ROG EMISSION FACTORS							
Vehicle Category	% Fleet	Weighted STR EX (g/trip) by Vehicle Percentage			Weighted RUN EX (5 MPH) (g/mile) by Vehcile Percentage		
		Gasoline	Diesel	Plug-In Hybrid	Gasoline	Diesel	Plug-In Hybrid
LDA	54.2%	0.2577	0.0000	0.0045	0.0492	0.0004	0.0000
LDT1	4.3%	0.5799	0.0000	0.0000	0.2163	0.0001	0.0000
LDT2	22.6%	0.3167	0.0000	0.0016	0.0682	0.0008	0.0000
MCY	2.3%	1.2396	0.0000	0.0000	6.3999	0.0000	0.0000
MDV	16.6%	0.4443	0.0000	0.0014	0.1014	0.0025	0.0000
COMPOSITE EMFAC	100.0%	0.3382	0.0	0.0030	0.2137	0.0008	0.00000

Source: EMFAC2021

Table 2-7

COMPOSITE CO EMISSION FACTORS							
Vehicle Category	**% Fleet**	**Weighted STR EX (g/trip) by Vehicle Percentage**			**Weighted RUN EX (5 MPH) (g/mile) by Vehcile Percentage**		
		Gasoline	**Diesel**	**Plug-In Hybrid**	**Gasoline**	**Diesel**	**Plug-In Hybrid**
LDA	54.2%	2.5756	0.0000	0.0341	1.3868	0.0071	0.0001
LDT1	4.3%	5.5003	0.0000	0.0002	3.5838	0.0004	0.0000
LDT2	22.6%	3.0586	0.0000	0.0120	1.6515	0.0078	0.0000
MCY	2.3%	7.6367	0.0000	0.0000	27.6941	0.0000	0.0000
MDV	16.6%	3.4633	0.0000	0.0109	1.9774	0.0509	0.0000
COMPOSITE EMFAC	100.0%	3.0727	0.0	0.0230	2.2371	0.0141	0.00004

Source: EMFAC2021

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2026
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	NOx_RUNE	NOx_IDLEX
San Bernar	2026	LDA	Aggregate	Aggregate	Gasoline	456254.8	19874166	19874166	0	2117601	0.032981	0
San Bernar	2026	LDA	Aggregate	Aggregate	Diesel	917.7888	31994.04	31994.04	0	3923.687	0.137243	0
San Bernar	2026	LDA	Aggregate	Aggregate	Plug-in Hyb	14570.87	727465.2	344797.3	382667.9	60250.56	0.002878	0
San Bernar	2026	LDT1	Aggregate	Aggregate	Gasoline	39064	1360018	1360018	0	169061.6	0.14955	0
San Bernar	2026	LDT1	Aggregate	Aggregate	Diesel	7.51703	107.4585	107.4585	0	20.94662	1.48743	0
San Bernar	2026	LDT1	Aggregate	Aggregate	Plug-in Hyb	100.2351	5014.189	2138.644	2875.545	414.4721	0.00259	0
San Bernar	2026	LDT2	Aggregate	Aggregate	Gasoline	202613	8343535	8343535	0	949148.8	0.058024	0
San Bernar	2026	LDT2	Aggregate	Aggregate	Diesel	596.9954	26308.26	26308.26	0	2883.572	0.039431	0
San Bernar	2026	LDT2	Aggregate	Aggregate	Plug-in Hyb	2256.65	108425.6	48378.14	60047.47	9331.247	0.002709	0
San Bernar	2026	MCY	Aggregate	Aggregate	Gasoline	20884.25	122975.7	122975.7	0	41768.5	0.556207	0
San Bernar	2026	MDV	Aggregate	Aggregate	Gasoline	147189	5833278	5833278	0	673332.9	0.089364	0
San Bernar	2026	MDV	Aggregate	Aggregate	Diesel	1900.727	75215.19	75215.19	0	8735.218	0.119202	0
San Bernar	2026	MDV	Aggregate	Aggregate	Plug-in Hyb	1469.974	72323.18	32747.29	39575.9	6078.344	0.002749	0

NOx_STRE	PM2.5_RU	PM2.5_IDL	PM2.5_STI	PM2.5_PM	PM2.5_PM	PM10_RUI	PM10_IDLI	PM10_STR	PM10_PM	PM10_PM	CO2_RUNI	CO2_IDLEX
0.222884	0.001111	0	0.001828	0.002	0.002589	0.001208	0	0.001988	0.008	0.007398	270.6143	0
0	0.012097	0	0	0.002	0.002642	0.012644	0	0	0.008	0.007548	231.7738	0
0.111175	0.00053	0	0.001857	0.002	0.001363	0.000577	0	0.002019	0.008	0.003895	130.8117	0
0.414159	0.001791	0	0.002871	0.002	0.003097	0.001948	0	0.003122	0.008	0.008848	326.929	0
0	0.220922	0	0	0.002	0.003494	0.230911	0	0	0.008	0.009983	414.2489	0
0.111175	0.000334	0	0.001309	0.002	0.001376	0.000363	0	0.001424	0.008	0.003932	117.9135	0
0.288921	0.001117	0	0.001813	0.002	0.002953	0.001215	0	0.001972	0.008	0.008436	328.1755	0
0	0.004234	0	0	0.002	0.002884	0.004425	0	0	0.008	0.00824	293.1012	0
0.111175	0.000402	0	0.001497	0.002	0.001371	0.000437	0	0.001629	0.008	0.003917	123.2649	0
0.126955	0.001785	0	0.003082	0.001	0.0042	0.001909	0	0.003285	0.004	0.012	187.4835	0
0.394616	0.001155	0	0.001922	0.002	0.003043	0.001256	0	0.00209	0.008	0.008694	405.396	0
0	0.006936	0	0	0.002	0.003081	0.007249	0	0	0.008	0.008802	411.3201	0
0.111175	0.000472	0	0.001741	0.002	0.00137	0.000513	0	0.001894	0.008	0.003913	125.0511	0

CO2_STRE	CH4_RUNE	CH4_IDLE	CH4_STRE	N2O_RUNI	N2O_IDLE	N2O_STRE	ROG_RUNI	ROG_IDLE	ROG_STRE	ROG_HOT	ROG_RUNI	ROG_DIUR
66.56148	0.001968	0	0.061217	0.004158	0	0.03123	0.007024	0	0.26546	0.084582	0.218965	1.488898
0	0.000975	0	0	0.036516	0	0	0.02099	0	0	0	0	0
62.80459	0.000408	0	0.040502	0.000535	0	0.020651	0.001271	0	0.162354	0.041131	0.038182	0.510664
85.79362	0.007375	0	0.111577	0.010763	0	0.039716	0.032655	0	0.581399	0.208736	0.608143	3.660494
0	0.013395	0	0	0.065265	0	0	0.28839	0	0	0	0	0
66.45752	0.000362	0	0.040002	0.00047	0	0.020164	0.001144	0	0.162354	0.023827	0.020248	0.305558
82.02753	0.002594	0	0.071504	0.005388	0	0.034498	0.009832	0	0.320758	0.079283	0.224604	1.528549
0	0.000552	0	0	0.046178	0	0	0.011888	0	0	0	0	0
72.47679	0.000379	0	0.040024	0.000492	0	0.020186	0.001197	0	0.162354	0.025666	0.023091	0.338095
46.87297	0.161751	0	0.168953	0.038876	0	0.007584	1.047413	0	1.239562	3.594132	3.815121	5.017348
102.9843	0.003643	0	0.093149	0.007158	0	0.03945	0.014805	0	0.454049	0.105028	0.318587	2.073768
0	0.000635	0	0	0.064804	0	0	0.013661	0	0	0	0	0
89.86996	0.000386	0	0.040213	0.000504	0	0.02037	0.001214	0	0.162354	0.030895	0.027697	0.390198

TOG_RUNI	TOG_IDLE	TOG_STRE	TOG_HOTS	TOG_RUNI	TOG_DIUR	NH3_RUNI	CO_RUNE	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
0.010249	0	0.290646	0.084582	0.218965	1.488898	0.036266	0.686267	0	2.653677	0.002675	0	0.000658
0.023896	0	0	0	0	0	0.0031	0.285769	0	0	0.002196	0	0
0.001855	0	0.177757	0.041131	0.038182	0.510664	0.018854	0.212905	0	1.235701	0.001293	0	0.000621
0.04765	0	0.636559	0.208736	0.608143	3.660494	0.038278	1.664222	0	5.514447	0.003232	0	0.000848
0.328313	0	0	0	0	0	0.0031	1.9042	0	0	0.003925	0	0
0.001669	0	0.177757	0.023827	0.020248	0.305558	0.017914	0.192596	0	1.235701	0.001166	0	0.000657
0.014347	0	0.35119	0.079283	0.224604	1.528549	0.038002	0.803333	0	3.097948	0.003244	0	0.000811
0.013533	0	0	0	0	0	0.0031	0.114171	0	0	0.002777	0	0
0.001746	0	0.177757	0.025666	0.023091	0.338095	0.018723	0.20104	0	1.235701	0.001219	0	0.000717
1.26337	0	1.347834	3.594132	3.815121	5.017348	0.008846	12.54845	0	7.636664	0.001853	0	0.000463
0.021602	0	0.497126	0.105028	0.318587	2.073768	0.037064	0.969015	0	3.539529	0.004008	0	0.001018
0.015552	0	0	0	0	0	0.0031	0.232908	0	0	0.003897	0	0
0.001772	0	0.177757	0.030895	0.027697	0.390198	0.019017	0.203822	0	1.235701	0.001236	0	0.000888

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2026
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, g/mile for RUNEX, PMBW and PMTW, mph for Speed, kWh/mile for Energy Consumption, gallon/mile for Fuel Consumption. PHEV calculated based on total VMT.

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Total VMT	CVMT	EVMT	NOx_RUNE	PM2.5_RU	PM10_RUI	CO2_RUNE
San Bernar	2026	LDA	Aggregate	5	Gasoline	506.9046	506.9046	0	0.060131	0.00798	0.008679	660.4377
San Bernar	2026	LDA	Aggregate	5	Diesel	0.816031	0.816031	0	0.208476	0.043389	0.045351	581.3371
San Bernar	2026	LDA	Aggregate	5	Plug-in Hyb	5187.8	8.794299	5179.006	4.18E-05	1.37E-05	1.49E-05	1.447368
San Bernar	2026	LDT1	Aggregate	5	Gasoline	34.68821	34.68821	0	0.281345	0.012288	0.013365	797.45
San Bernar	2026	LDT1	Aggregate	5	Diesel	0.002741	0.002741	0	1.001853	0.905807	0.946764	1025.961
San Bernar	2026	LDT1	Aggregate	5	Plug-in Hyb	38.97202	0.054548	38.91747	3.45E-05	7.9E-06	8.6E-06	1.197452
San Bernar	2026	LDT2	Aggregate	5	Gasoline	212.8077	212.8077	0	0.106832	0.008005	0.008707	799.8646
San Bernar	2026	LDT2	Aggregate	5	Diesel	0.671011	0.671011	0	0.157584	0.011307	0.011819	725.9175
San Bernar	2026	LDT2	Aggregate	5	Plug-in Hyb	813.913	1.233918	812.6791	3.73E-05	9.85E-06	1.07E-05	1.295927
San Bernar	2026	MCY	Aggregate	5	Gasoline	3.136581	3.136581	0	0.839339	0.012012	0.012866	464.1828
San Bernar	2026	MDV	Aggregate	5	Gasoline	148.7819	148.7819	0	0.164139	0.008246	0.008968	987.2365
San Bernar	2026	MDV	Aggregate	5	Diesel	1.918416	1.918416	0	0.17668	0.023371	0.024428	960.281
San Bernar	2026	MDV	Aggregate	5	Plug-in Hyb	536.4532	0.835243	535.618	3.84E-05	1.17E-05	1.27E-05	1.330437

CH4_RUNE	N2O_RUNI	ROG_RUNI	TOG_RUNI	CO_RUNEX	SOx_RUNE	NH3_RUNI	PM10_PM	PM2.5_PM	Fuel Consu	Energy Consumption
0.01411	0.007562	0.050101	0.073107	1.413051	0.006529	0.036266	0.005956	0.002085	0.076768	0
0.011941	0.09159	0.257074	0.292661	4.517641	0.005508	0.0031	0.006077	0.002127	0.057244	0
1.47E-05	7.76E-06	4.59E-05	6.69E-05	0.003857	1.43E-05	6.74E-05	0.001329	0.000465	0.000168	0.520256
0.049319	0.020064	0.216697	0.316203	3.589741	0.007884	0.038278	0.008557	0.002995	0.092693	0
0.055469	0.161641	1.194216	1.359536	5.053009	0.009722	0.0031	0.009654	0.003379	0.101025	0
1.2E-05	6.25E-06	3.79E-05	5.52E-05	0.003204	1.18E-05	5.88E-05	0.001324	0.000463	0.000139	0.52041
0.018301	0.009855	0.06879	0.100379	1.666327	0.007907	0.038002	0.008159	0.002856	0.092974	0
0.012122	0.114369	0.260986	0.297115	2.500438	0.006878	0.0031	0.007969	0.002789	0.07148	0
1.3E-05	6.78E-06	4.1E-05	5.98E-05	0.003461	1.28E-05	6.36E-05	0.001326	0.000464	0.000151	0.52035
1.021112	0.061475	6.399891	7.813599	27.69412	0.004589	0.008846	0.012	0.0042	0.053955	0
0.025608	0.013097	0.103289	0.150716	2.01402	0.00976	0.037064	0.008408	0.002943	0.114754	0
0.009333	0.151293	0.20093	0.228746	4.018499	0.009099	0.0031	0.008512	0.002979	0.094558	0
1.34E-05	7.03E-06	4.21E-05	6.15E-05	0.003551	1.32E-05	6.54E-05	0.001327	0.000464	0.000155	0.520328

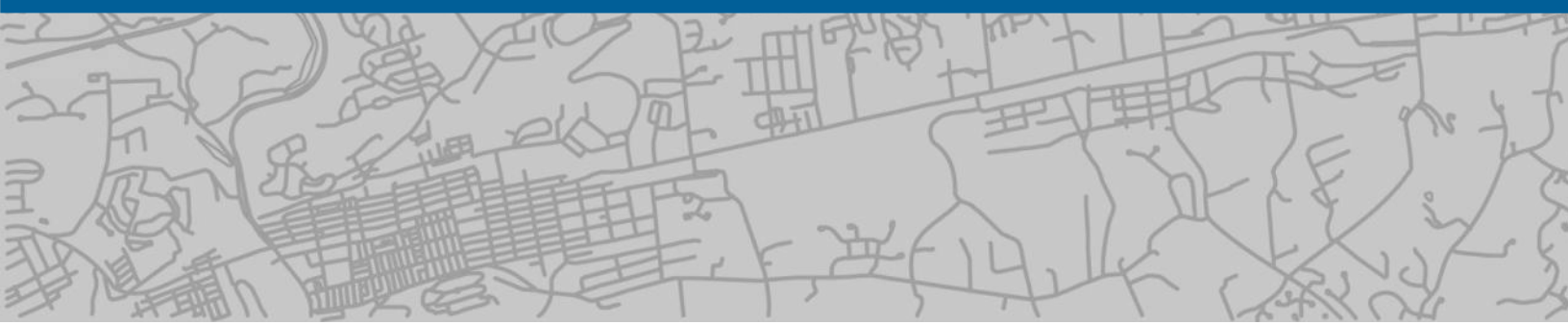
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KITTELSON & ASSOCIATES

GRAND TERRACE DUTCH BROS TRANSPORTATION IMPACT ASSESSMENT

GRAND TERRACE, CA

March 22, 2024



Grand Terrace Dutch Bros Transportation Impact Assessment

Grand Terrace, CA

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March 22, 2024

CONTENTS

Executive Summary 1
Introduction 2
Project Context 2
  Project Location 2
  Proposed Project 4
Project Traffic Generation 5
  Trip Generation 5
  Trip Distribution 7
  Trip Assignment 7
VMT Assessment 10
  Screening Criteria 10
  Screening Results 10
Operations Analysis 11
  Level-of-Service (LOS) Analysis 11
  Site Performance Analyses 22
Summary 24

APPENDICES

Appendix A: Proposed Site Plan
Appendix B: Dutch Bros Historical Transaction Data
Appendix C: Detailed Trip Distribution
Appendix D: Traffic Counts
Appendix E: Operations Analyses Reports

LIST OF FIGURES

Figure 1: Site Location 3
Figure 2: Site Plan with On-Site Queuing 5
Figure 3: Dutch Bros Daily Average Drive-Through Transactions 6
Figure 4: Net New Project Trips during AM Peak 8
Figure 5: Net New Project Trips during PM Peak 9
Figure 6: Study Area 12
Figure 7: AM Peak Hour Volumes Under Existing Conditions 14
Figure 8: PM Peak Hour Volumes Under Existing Conditions 15
Figure 9: AM Peak Hour Volumes Under Existing Plus Ambient Growth Conditions 17
Figure 10: AM Peak Hour Volumes Under Existing Plus Ambient Growth Conditions 18
Figure 11: AM Peak Hour Volumes Under Existing Plus Ambient Growth Plus Project Conditions 20
Figure 12: PM Peak Hour Volumes Under Existing Plus Ambient Growth Plus Project Conditions 21
Figure 13: 95th Percentile Queuing Scenario 23

LIST OF TABLES

Table 1: Weekday Trip Generation Inbound and Outbound Rates 7
Table 2: Weekday Trip Generation Estimates 7
Table 3: VMT Screening Summary 10
Table 4 Level of Service Definition for Intersections 11
Table 5: Existing Conditions Level-of-Service Analyses Results 13
Table 6: Existing Plus Ambient Growth Conditions Level-of-Service Analyses Results 16
Table 7: Existing Plus Ambient Growth Plus Project Conditions Level-of-Service Analyses Results 19

EXECUTIVE SUMMARY

This report presents the findings of the analysis conducted under the California Environmental Quality Act (CEQA) and the local transportation analysis for the proposed development of the 22115 Barton Road site in Grand Terrace, California. The report adheres to the guidelines outlined in the City of Grand Terrace's Traffic Impact Guidelines (2020).

The proposed project is located on the south side of Barton Road and just west of Commerce Way. The facility would replace an existing vacant automobile service shop on the site. The parcel is currently zoned as General Commercial, per the Grand Terrace General Plan. The proposed coffee shop would be consistent with the General Plan zoning and land use. It is anticipated for the project to finish construction and be operational by 2025.

The project site would consist of a 950-sf retail structure, eight vehicle parking stalls including one ADA stall, and a vehicle drive-through served by a single service window. The drive-through has two lanes that converge at the service window and is designed to accommodate a queue of 15 vehicles at one time. Recommendations for queue management internal to the site are provided to prepare for the potential when queued vehicles at the coffee shop extend beyond the dedicated storage area for Dutch Bros.

The current site has three driveways giving vehicular access from both Barton Road and Michigan Street. However, the proposed coffee shop will close public access from Barton Road and limit vehicle access to Michigan Street.

The proposed 950 sf Dutch Bros coffee shop at 22115 Barton Road in meets the screening criteria as local-serving retail and is presumed to have a less than significant impact on VMT and is exempt from detailed VMT analysis.

The analysis of intersection operations considered various scenarios during peak periods in the morning (7-9 AM) and afternoon (4-6 PM) to assess the potential impacts of the project. The scenarios included existing conditions and existing conditions with ambient growth plus the project generated trips. Based on the LOS analysis results, all intersections operate at an LOS D or better. The project does not create adverse deficiencies for intersection operations.

INTRODUCTION

Dutch Bros is proposing development of a new 950 square foot (sf) drive-through coffee shop at 22115 Barton Road in Grand Terrace, California. The site will include eight parking spaces to accommodate staff and no proposed patron parking spaces. The proposed development would replace a vacant building, formerly occupied by an automobile service shop.

Kittelson and Associates, Inc (Kittelson) prepared this traffic analysis report for Dutch Bros to determine the expected transportation-related effects of the project. The scope of the study was developed in coordination with Dutch Bros and the City of Grand Terrace.

The transportation analyses documented in this report were performed to assess transportation effects and consistency with the City of Grand Terrace's Traffic Impact Guidelines (2020). The report covers the following transportation analyses:

- Project trip generation and trip distribution
- VMT Assessment for CEQA per Senate Bill 743
- Operations analyses (level of service and site performance)

PROJECT CONTEXT

The existing conditions of nearby roadways and intersections were reviewed to gain an understanding of the project site area. This included mapping and documenting existing land use, multi-modal transportation infrastructure, and roadway characteristics. The findings from the existing conditions review are summarized below.

PROJECT LOCATION

The project is located at a stand-alone parcel south of Barton Street between Michigan Street and Commerce Way. The parcel is approximately 500 feet east of Interstate 215 (I-215) access ramps. Michigan Street is a cul-de-sac that also provides access with a gas station to the west. Barton Road has commercial/retail centers along its frontage and is surrounded primarily by residential neighborhoods. To the north of the parcel is Lions Club Community Center and Grand Terrance Elementary school, which has about 650 students in grades kindergarten to 6th grade. There are medical facilities such as San Manuel Indian Health Clinic and the Grand Terrace Health Care Center located northeast of the project. The project location can be visualized in Figure 1.

Figure 1: Site Location



SOURCE: KITTELSON & ASSOCIATES, INC (2024)

ROADWAY FACILITIES

The project site driveways are located on Michigan Street. Adjacent key roadways include Barton Road, Commerce Way, and I-215. More information on the current configuration of each roadway is provided below:

- **Michigan Street** is a short two-lane roadway (one lane in each direction) that ends with a cul-de-sac and provides direct access to the proposed project site as well as ARCO and Quick Stop. It serves as the only access to the project site and connects drivers entering/leaving from the project site to Barton Road.
- **Barton Road** is classified as a major highway per City of Grand Terrace General Plan[1]. Barton Road is typically four lanes (two lanes in each direction) with turn lanes at intersections. The posted speed limit is 45 miles per hour (mph). It connects project patrons to Michigan Street..
- **Commerce Way** is classified as a major highway per City of Grand Terrace General Plan. It currently provides access from Barton Road to retail uses just west of the project site and the southern part of Grand Terrace. The northbound approach of Commerce Way at Barton Road has two left turns, one through-right, and one right turn lane. The posted speed limit is 35 mph.
- **I-215** is a north-south freeway that runs through the Inland Empire region. It generally has a speed limit of 65 to 70 mph. This highway connects key destinations such as San Bernardino, Riverside, Moreno Valley, and Temecula, serving as a crucial transportation corridor for commuters and travelers in Southern California.

PEDESTRIAN FACILITIES

The existing sidewalk network provides access between the project site and nearby land uses. Sidewalks are available on both sides of Barton Road and Commerce Way and standard crosswalks are located on

[1] https://cdnsm5-hosted.civiclive.com/UserFiles/Servers/Server_12337255/File/Departments/Planning%20&%20Development/city_of_gt_general_plan.pdf

almost all legs of the signalized intersections within the project vicinity. The following crosswalk details are particularly noteworthy:

- Crosswalks at Barton Road and Commerce Way/Vivienda Avenue use yellow striping since they are within half a mile of Grand Terrace Elementary School's entrance.
- There is no crosswalk on the west leg of Barton Road and I-215 NB Ramp.
- There is no crosswalk on the west leg of Barton Road and Town Square.

BICYCLE FACILITIES

There is a Class II bicycle facility (Bike Lane) along Barton Road from the I-215 NB Ramp to Mount Vernon Avenue. There is a Class II (Bike Lane) along Commerce Way between Barton Road and Michigan Street (south).

TRANSIT FACILITIES

Omnitrans is the primary transit operator in the San Bernardino Area (including Grand Terrace). Within the project area, OmniTrans operates Route 305 along Barton Road. Between I-215 Southbound Ramps and Town Square, Route 305 runs east-west and has one stop in each direction at Town Square. Route 305 travels between Grand Terrace, Colton, and San Bernando seven days a week from 6 AM to 10 PM. Buses are scheduled to arrive every 60 minutes.[2]

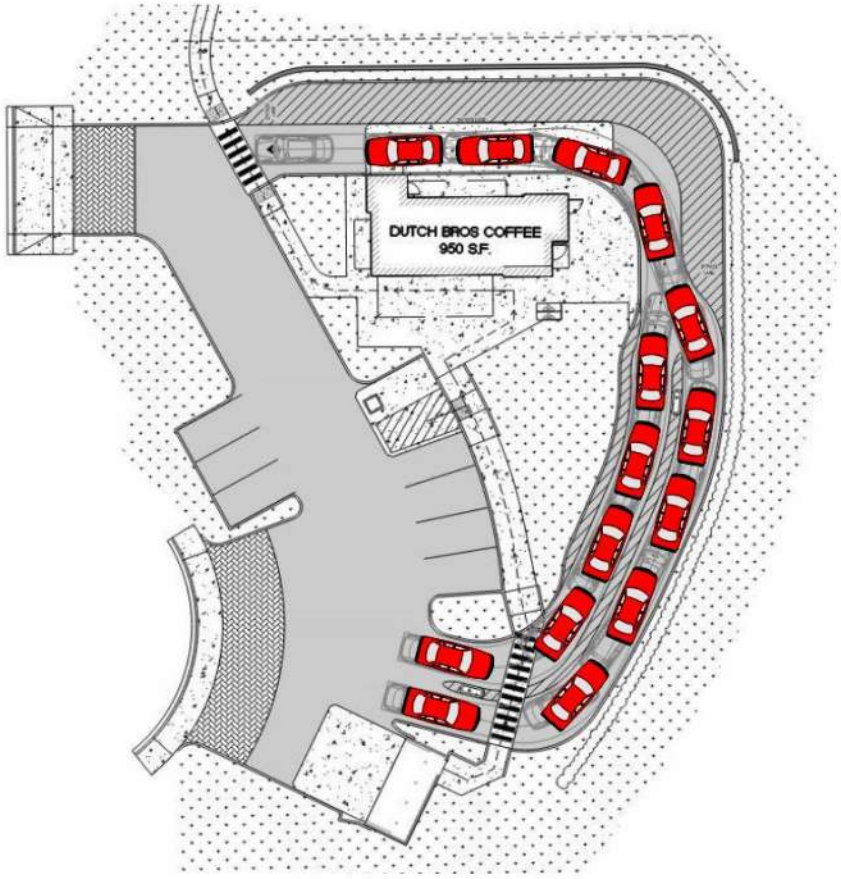
PROPOSED PROJECT

The project site would consist of a 950-sf retail structure, eight vehicle parking stalls including one ADA stall, and a vehicle drive-through served by a single service window. The drive-through has two lanes that converge at the service window and is designed to accommodate a queue of 15 vehicles at one time, as shown in Figure 2.

The proposed project would replace an existing vacant automobile service shop on the site with a Dutch Bros coffee shop. The current site has three driveways giving vehicular access from both Barton Road and Michigan Street. The proposed site plan would close public access from Barton Road and limit vehicle access to Michigan Street. The parcel is currently zoned as General Commercial per the Grand Terrace General Plan. The proposed coffee shop would be consistent with the General Plan zoning and land use. It is anticipated for the project to be operational by 2025. A more detailed site plan is provided in Appendix A.

[2] https://omnitrans.org/wp-content/themes/omninew/timetables/rte_pdf/Route_305.pdf

Figure 2: Site Plan with On-Site Queuing



SOURCE: BARGHAUSEN CONSULTING ENGINEERS

PROJECT TRAFFIC GENERATION

Project-related trip estimates were calculated to assess the project's traffic impact on local roads.

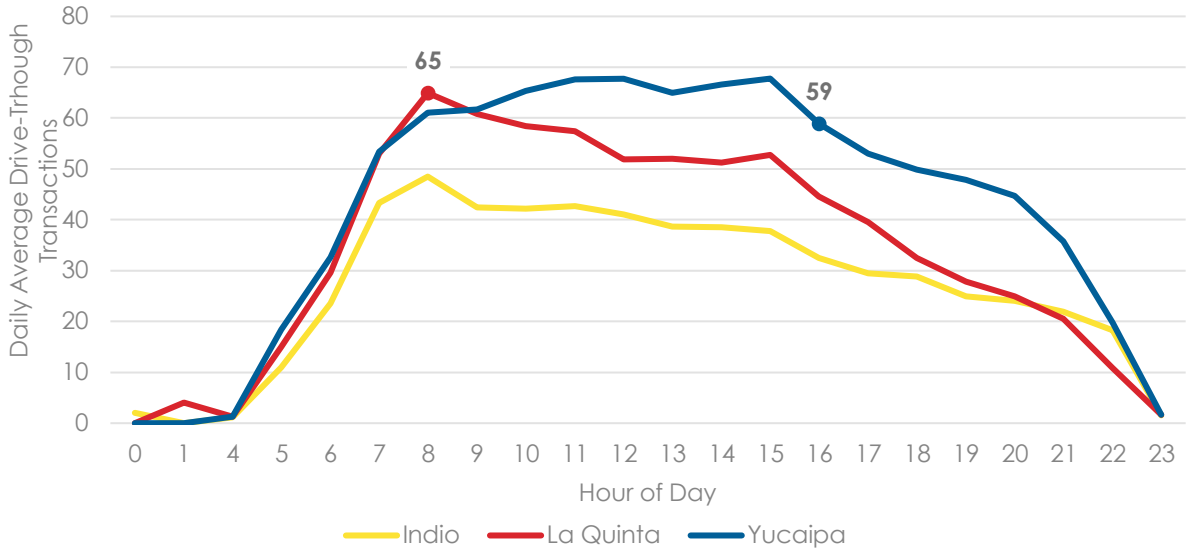
TRIP GENERATION

Trip generation for the project uses a combination of the Institute of Transportation Engineers (ITE) *Trip Generation Manual (11th edition)* and historical drive-through transaction data of three existing similar Dutch Bros. The three similar Dutch Bros selected based on market service, layout, and traffic conditions are at the following locations:

- 81-776 Highway 111, Indio, CA 92201
- 44175 Jefferson St, La Quinta, CA 92253
- 32690 Yucaipa Blvd, Yucaipa, CA 92399

Figure 3 visualizes the hourly transaction data of the Dutch Bros stores. As shown in the figure, the highest number of transactions during the AM network peak period between 7:00 – 9:00 is 65, and the highest during the PM network peak period between 4:00 – 6:00 is 59 transactions. It was assumed that each transaction represents one vehicle, although multiple transactions could occur within one vehicle.

Figure 3: Dutch Bros Daily Average Drive-Through Transactions



SOURCE: DUTCH BROS (2023)

The ITE Trip Generation Manual was used to develop the proportional traffic inflow and outflow rates experienced during weekday morning (AM) and afternoon (PM) peak hours and pass-by rate assumptions. The hourly averages of historical Dutch Bros transaction data between January 1, 2022 and December 31, 2022 were used to approximate the total inbound and outbound trips during the weekday AM and PM peak hours. The hourly historical transaction data are provided in Appendix B.

Pass-by trips are a crucial aspect in trip generation for coffee shops since they are likely to receive similar or more pass-by trips than primary trips. A pass by trip reduction of 49% for the AM Peak Hour and daily traffic, and a 50% reduction for the PM Peak Hour was applied, consistent with pass-by trip rates from ITE Trip Generation Manual for fast-food restaurants.

The site anticipates having seven to nine employees on site throughout the day. At peak times, four of the employees will be outside with one controlling traffic. These employees are on a shift schedule assumed to commute to the site outside of typical AM and PM peak hours so are not represented in the peak hour but are represented in the daily calculations.

Table 1 presents the inbound/outbound patterns used in the analysis and Table 2 presents the resulting trip generation estimates.

Table 1: Weekday Trip Generation Inbound and Outbound Rates

Land Use	AM Peak Hour		PM Peak Hour		Daily	
	In	Out	In	Out	In	Out
Coffee/Donut Shop with Drive-Through Window and No Indoor Seating	50%	50%	50%	50%	50%	50%

SOURCE: INSTITUTE OF TRAFFIC ENGINEERS TRIP GENERATION MANUAL, 11TH EDITION

Table 2: Weekday Trip Generation Estimates

Trip Type	AM Peak Hour			PM Peak Hour			Daily		
	In	Out	Total	In	Out	Total	In	Out	Total
Primary Trips	33	33	66	30	30	60	495	495	990
Pass-By Trips[1]	32	32	64	29	29	58	461	461	922
Total Trips[2]	**65**	**65**	**130**	**59**	**59**	**118**	**956**	**956**	**1,912**

Note:
[1] A pass-by trip rate of 49% was used for AM Peak Hour and Daily Traffic and a rate of 50% was used for PM Peak Hour.
[2] Total inbound/outbound trip generation estimates are the maximum number of historical transaction data within the hour across the three similar Dutch Bros sites (Indio, La Quinta, and Yucaipa).

SOURCE: DUTCH BROS (2023), COMPILED BY KITTELSON & ASSOCIATES, INC (2024)

TRIP DISTRIBUTION

The proposed project's trip distribution was developed based on a review of the adjacent roadway network and surrounding land uses to determine anticipated origins and paths of travel. Vehicle trips are separated between primary and pass-by trips.

PRIMARY TRIPS

Primary trips to and from the site were distributed to account for attracting local community trips. Inbound and outbound trip patterns are illustrated in Appendix C, and generally consist of the following distribution:

- 10% of trips to and from local roads west of the project site
- 48% of trips to and from I-215 west of the project site
- 2% of trips to and from local roads north of the project site
- 12% of trips to and from local roads south of the project site
- 28% of trips to and from local roads east of the project site

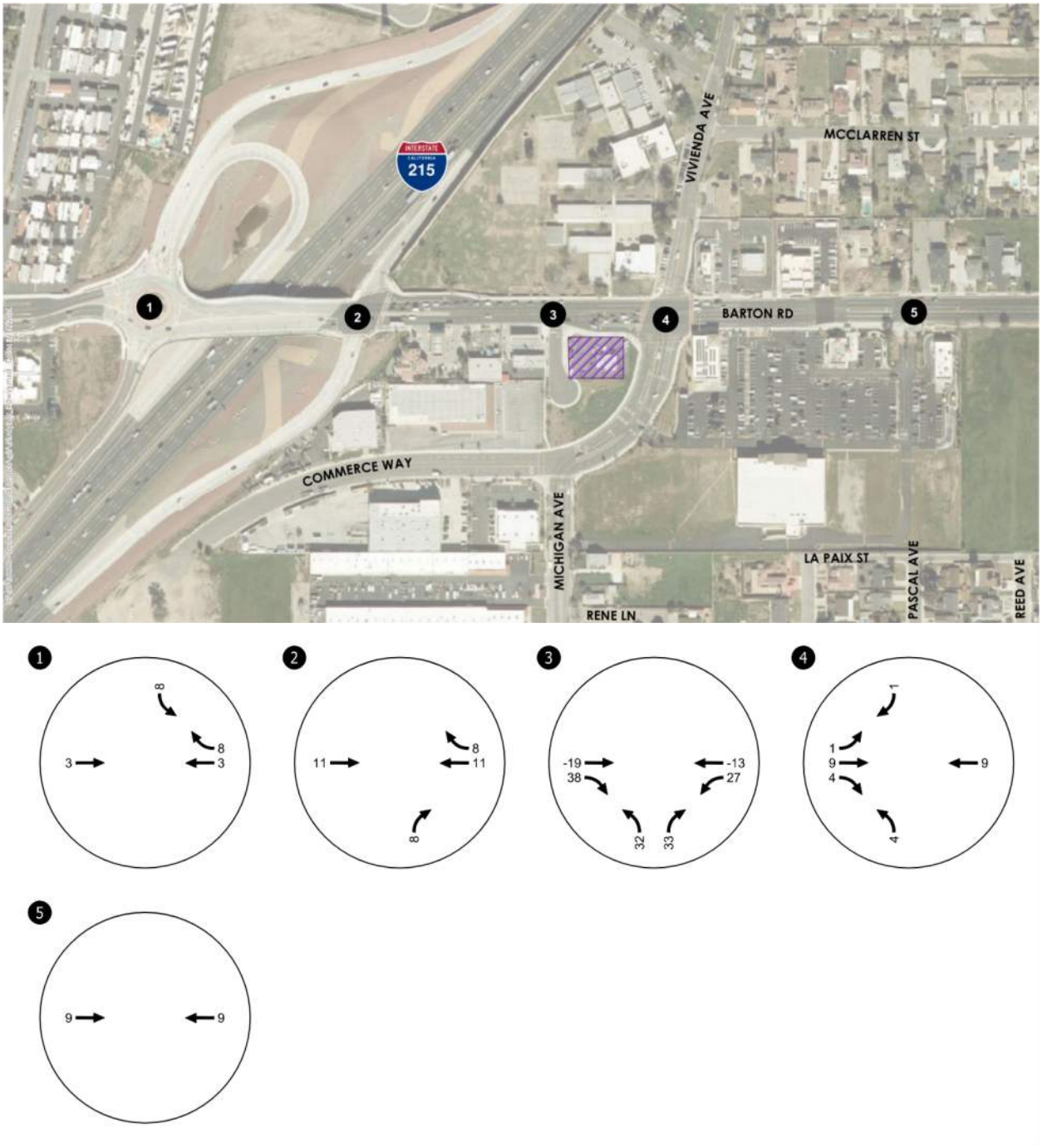
PASS-BY TRIPS

Pass-by trips to and from the site account for attracting trips already occurring on Barton Road that now would divert their original path to stop at the proposed project site. It is assumed 60% of pass-by trips would be generated by westbound traffic on Barton Road due to its connection to I-215. The remaining 40% is allocated to eastbound traffic on Barton Road.

TRIP ASSIGNMENT

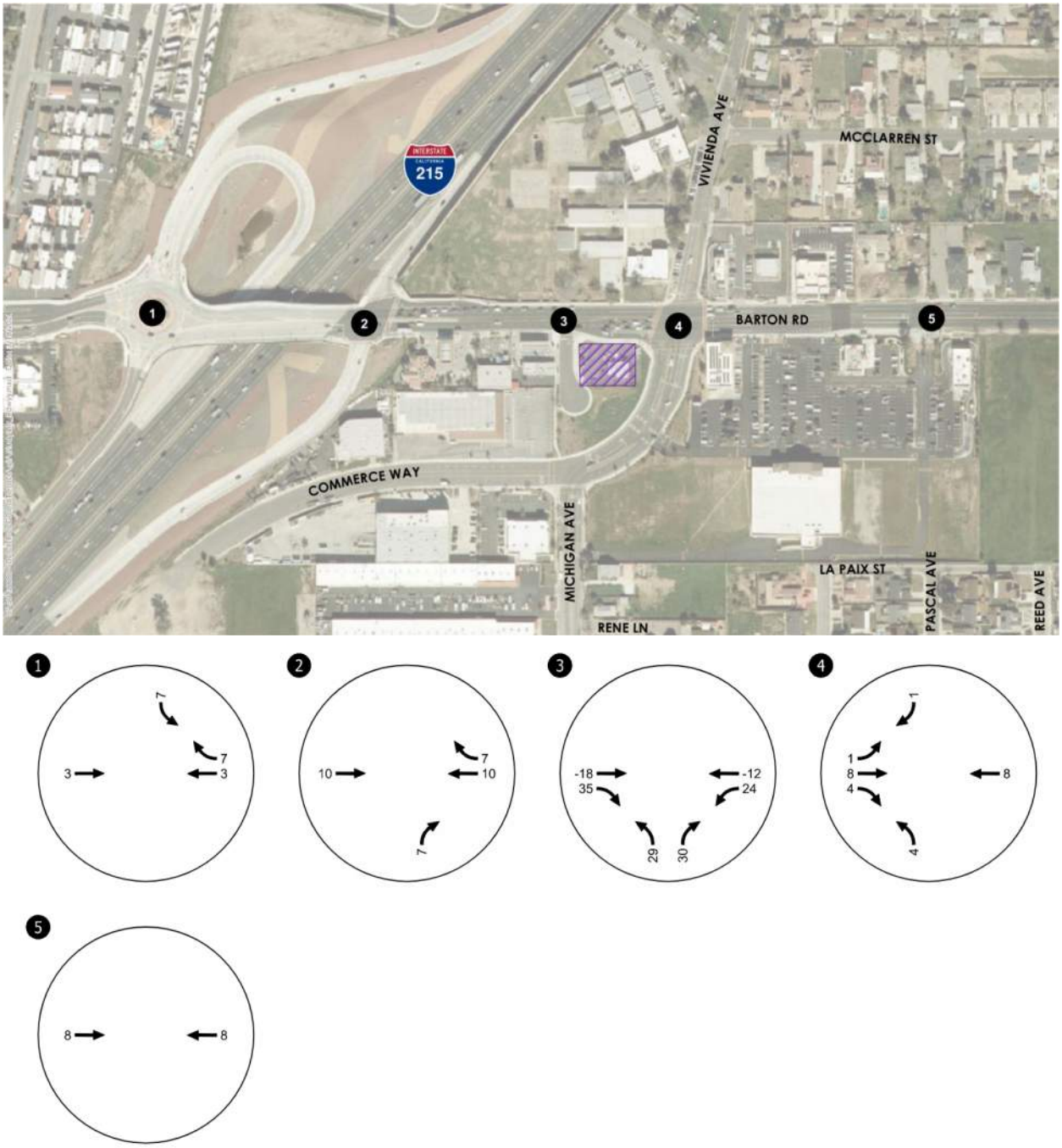
The trip generation volumes were applied to the trip distribution to calculate the number of vehicle trips the project would add to the surrounding roadway network. The total net new project trip assignment for the study area intersections during the weekday AM and PM peak hours are shown in Figure 4 and Figure 5, respectively.

Figure 4: Net New Project Trips during AM Peak



SOURCE: KITTELSON & ASSOCIATES, INC (2024)

Figure 5: Net New Project Trips during PM Peak



SOURCE: KITTELSON & ASSOCIATES, INC (2024)

VMT ASSESSMENT

The transportation analysis documented in this memorandum was performed to comply with CEQA transportation vehicle miles travelled (VMT) analysis and consistency with the City of Grand Terrace's Traffic Impact Guidelines (2020).

CEQA analysis requires an evaluation of project impacts related to VMT. However, a detailed CEQA assessment is not required for land use elements of a project that meet certain screening criteria, described below.

SCREENING CRITERIA

According to the City of Grand Terrace's Traffic Impact Guidelines, a project may require a detailed VMT analysis unless it meets at least one of the City's four screening criteria:

1. **Transit Priority Area (TPA)[3].** Projects located within a half-mile radius of high-quality transit which maintains a service interval frequency of 15 minutes or less during the morning and afternoon peak commute periods do not require a detailed VMT analysis.
2. **Small Projects.** Projects that generate or attract fewer than 110 vehicle trips per day are classified as 'small projects' and thus presumed to have a less than significant impact.
3. **Local Serving Projects.** Projects that are locally serving retail with 50,000 square feet gross floor area or less are presumed to have a less than significant impact.
4. **Low VMT Area[4].** Projects that are located within an area of development that is under threshold on a screening map are presumed to have a less than significant impact.

SCREENING RESULTS

A review of the City TIA Guidelines has determined that the project meets at least one of the four VMT screening criteria – it is a local-serving retail project with less than 50,000 square feet of gross floor area. Therefore, the project is presumed to have a less than significant impact on VMT and is exempt from detailed VMT analysis. Table 3 provides a VMT screening summary for the project.

Table 3: VMT Screening Summary

VMT Screening Criteria	Criterion Met?	Reasoning
Transit Priority Area (TPA)	No	Using SBCTA's VMT Screening Tool, the proposed project is not located in a near high-quality transit and is not screened out under this criterion.
Small Projects	No	The proposed project would generate 768 net new daily primary vehicle trips and is not screened out under this criterion.
Local-Serving Projects	**Yes**	The proposed project is a 950 square feet drive-through coffee shop. The parcel location is near residential areas and the proposed project is intended to function as a neighborhood-serving coffee shop. **The project screens out of further evaluation as a locally serving retail facility**.
Low VMT Area	No	Using SBCTA's VMT Screening Tool and considering the land-use is dependent on service population, the project is not screened out under this criterion.

SOURCE: KITTELSON & ASSOCIATES, INC., 2023

[3] https://www.arcgis.com/apps/mapviewer/index.html?webmap=de21adda3c2a4e42972b5a430d9bfe03

[4] https://www.arcgis.com/apps/webappviewer/index.html?id=779a71bc659041ad995cd48d9ef4052b

OPERATIONS ANALYSIS

This study conducts a level-of-service (LOS) analysis and a site performance analysis. The City of Grand Terrace's Traffic Impact Guidelines require an LOS analysis if a project generates over 100 vehicle trips during the AM or PM peak hour or adds at least 51 trips during the AM or PM peak hours to any of the study intersections. The site performance analysis reviews site access and safety operational needs to determine if the project requires additional improvements to operate functionally.

LEVEL-OF-SERVICE (LOS) ANALYSIS

INTERSECTION ANALYSIS METHODOLOGY

LOS describes the operating conditions experienced by motorists. LOS is a qualitative measure of the effect of a number of factors, including speed and travel time, traffic interruptions and delay, freedom to maneuver, driving comfort, and convenience. LOS A through LOS F covers the entire range of traffic operations that might occur. Motorists using a facility that operates at a LOS A experience very little delay, while those using a facility that operates at a LOS F will experience long delays. Intersection analyses for the four study intersections were conducted using the operational methodologies outlined in the Highway Capacity Manual (HCM) methodology (Transportation Research Board, Washington, D.C., 2016), calculated with Synchro software.

Using the HCM procedure, the level of service designation for a signalized intersection is determined by calculating a weighted average control delay in seconds per vehicle, based on signal timings obtained from the City of Grand Terrace. For unsignalized intersections, the HCM methodology is also used to calculate the weighted average control delay for each controlled intersection leg and for the intersection as a whole. In the case of two-way stop-controlled intersections, the LOS for the worst approach is used as the performance measure for the level of service.

Table 4 presents the relationship of average delay to level of service for both signalized and unsignalized intersections.

Table 4 Level of Service Definition for Intersections

Level of Service	Delay Per Vehicle (Seconds)	
	Signalized Intersection	Unsignalized Intersection
A	< 10.0	< 10.0
B	> 10.0 to 20.0	> 10.0 to 15.0
C	> 20.0 to 35.0	> 15.0 to 25.0
D	> 35.0 to 55.0	> 25.0 to 35.0
E	> 55.0 to 80.0	> 35.0 to 50.0
F	> 80.0	> 50.0

SOURCE: HIGHWAY CAPACITY MANUAL

REGULATORY STANDARDS

The City of Grand Terrace established LOS D as the minimum peak hour system performance for their circulation network.[5] If an intersection operates at LOS E or F, recommendation for improvements is required to provide acceptable (LOS D or better) levels of service.

[5] https://cdnsm5-hosted.civiclive.com/UserFiles/Servers/Server_12337255/File/Departments/Planning%20&%20Development/Planning/c3_circulation.pdf

DATA COLLECTION

Weekday intersection vehicle turning movement counts were collected during the AM (7:00 AM to 9:00 AM) and PM (4:00 PM to 6:00 PM) peak periods on Tuesday, February 13, 2024, at the following study intersections:

1. I-215 Southbound Ramps and Barton Road
2. I-215 Northbound Ramps and Barton Road
3. Michigan Street and Barton Road
4. Commerce Way and Barton Road
5. Town Square and Barton Road

The study intersections can be visualized in Figure 6. Original turning movement count data is provided in Appendix D.

Figure 6: Study Area



SOURCE: KITTELSON AND ASSOCIATES, INC (2024)

RESULTS

The intersection operations were analyzed for the following scenarios during morning (7 - 9 AM) and afternoon (4 -6 PM) peak periods to determine potential project effects:

- Existing Conditions
- Existing Plus Ambient Growth Conditions
- Existing Plus Ambient Growth Plus Project Conditions

The analyzed project buildout year is 2025. Detailed Sidra and Synchro reports are available for reference in Appendix E.

Existing Conditions

Figure 7 and Figure 8 illustrates AM and PM peak hour volumes, respectively. These volumes were analyzed using the existing intersection configurations. Table 5 summarizes the delay and LOS analysis results for each study intersection under existing conditions. As shown in the table, all intersections currently operate at LOS D or better.

Table 5: Existing Conditions Level-of-Service Analyses Results

ID	Intersection	Control Type	Delay (s/veh)		LOS	
			AM	PM	AM	PM
1	I-215 Southbound Ramps / Barton Road	Single-Lane Roundabout	5.7	6.7	A	A
2	I-215 Northbound Ramps / Barton Road	Signalized	13.7	12.9	B	B
3	Michigan Street / Barton Road	SSSC	15.5	19.9	C	C
4	Commerce Way / Barton Road	Signalized	26.7	20.1	C	C
5	Town Square / Barton Road	Signalized	14.9	16.1	B	B

Note:
SSSC = Side-Street Stop-Controlled

SOURCE: KITTELSON AND ASSOCIATES, INC (2024)

Figure 7: AM Peak Hour Volumes Under Existing Conditions

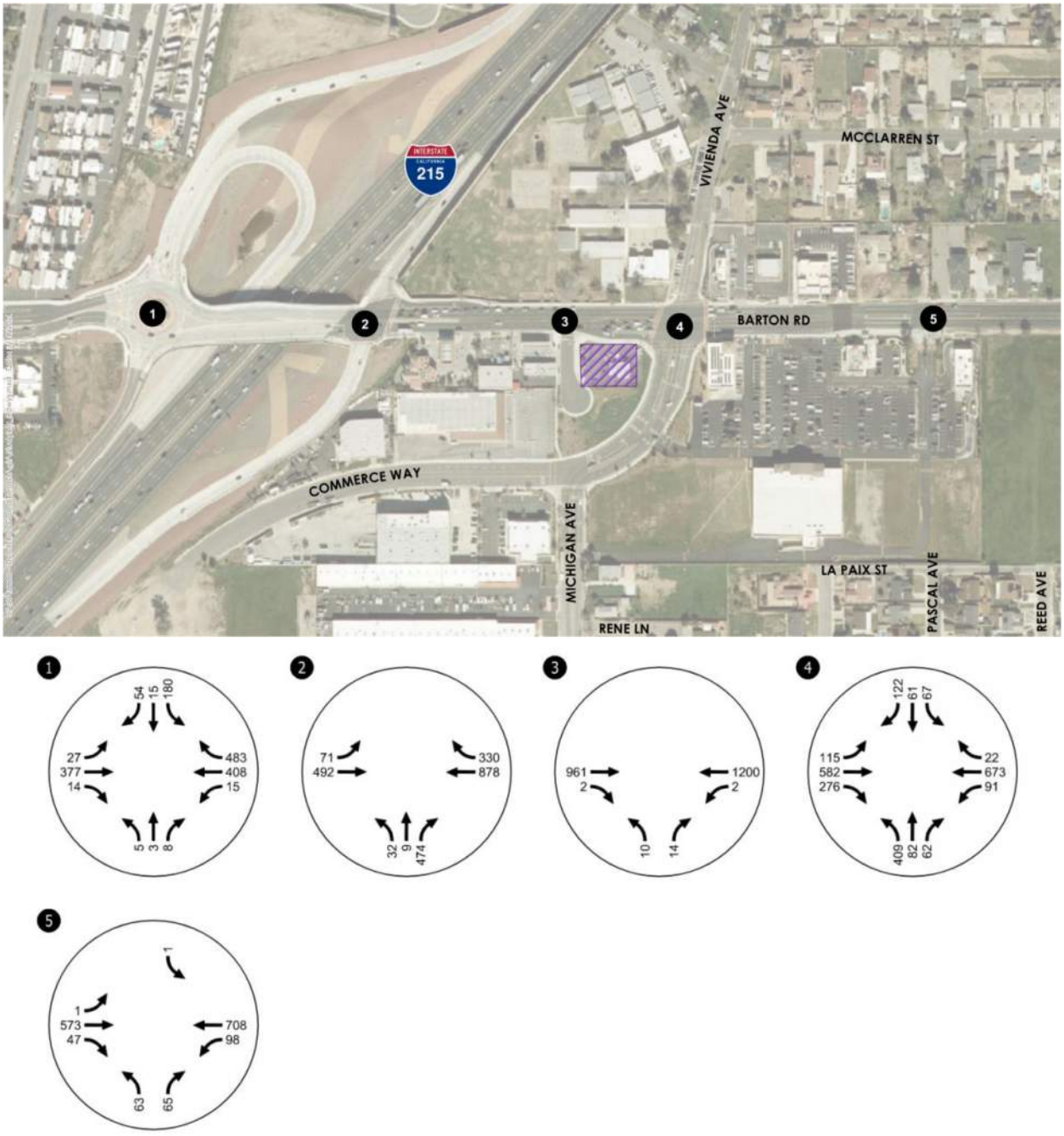
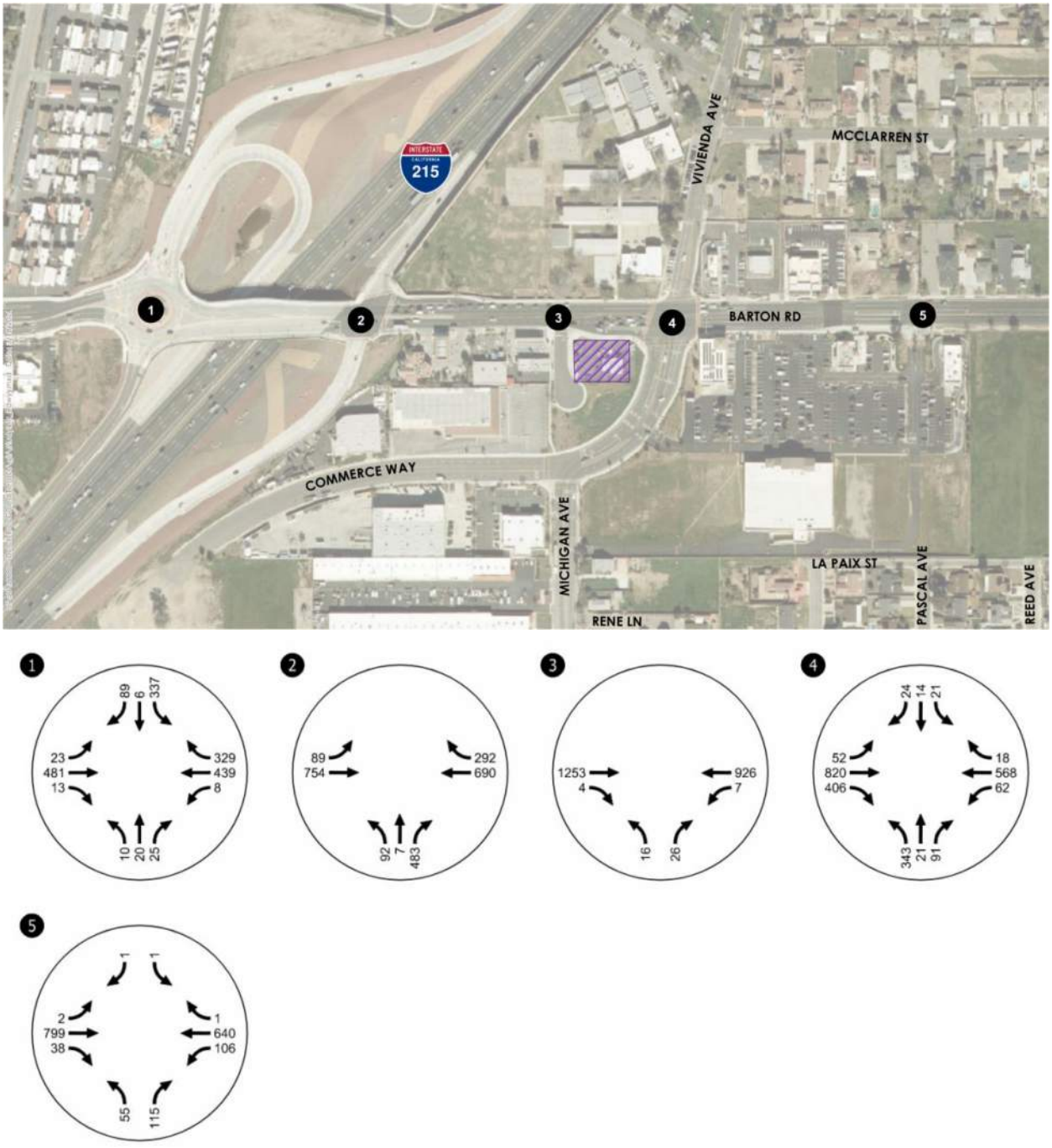


Figure 8: PM Peak Hour Volumes Under Existing Conditions



Existing Plus Ambient Growth Conditions

For this scenario, an ambient growth rate of 2% per year was used to grow existing traffic volumes. Figure 9 and Figure 10 illustrates the resulting AM and PM peak hour volumes, respectively. These volumes were analyzed using the existing intersection configurations to reflect an existing plus ambient growth conditions.

Table 6 summarizes the delay and LOS analysis results for each study intersection under the existing plus ambient growth future conditions. Compared to existing conditions, there were some minor increases in delay for each intersection. However, these changes did not change the LOS results. Therefore, all intersections were still expected to operate at LOS D or better.

Table 6: Existing Plus Ambient Growth Conditions Level-of-Service Analyses Results

ID	Intersection	Control Type	Delay (s/veh)		LOS	
			AM	PM	AM	PM
1	I-215 Southbound Ramps / Barton Road	Single-Lane Roundabout	5.7	6.8	A	A
2	I-215 Northbound Ramps / Barton Road	Signalized	13.9	13.1	B	B
3	Michigan Street / Barton Road	SSSC	15.7	20.3	C	C
4	Commerce Way / Barton Road	Signalized	27.2	20.2	C	C
5	Town Square / Barton Road	Signalized	15.0	16.3	B	B

Note:
SSSC = Side-Street Stop-Controlled

SOURCE: KITTELSON AND ASSOCIATES, INC (2024)

Figure 9: AM Peak Hour Volumes Under Existing Plus Ambient Growth Conditions

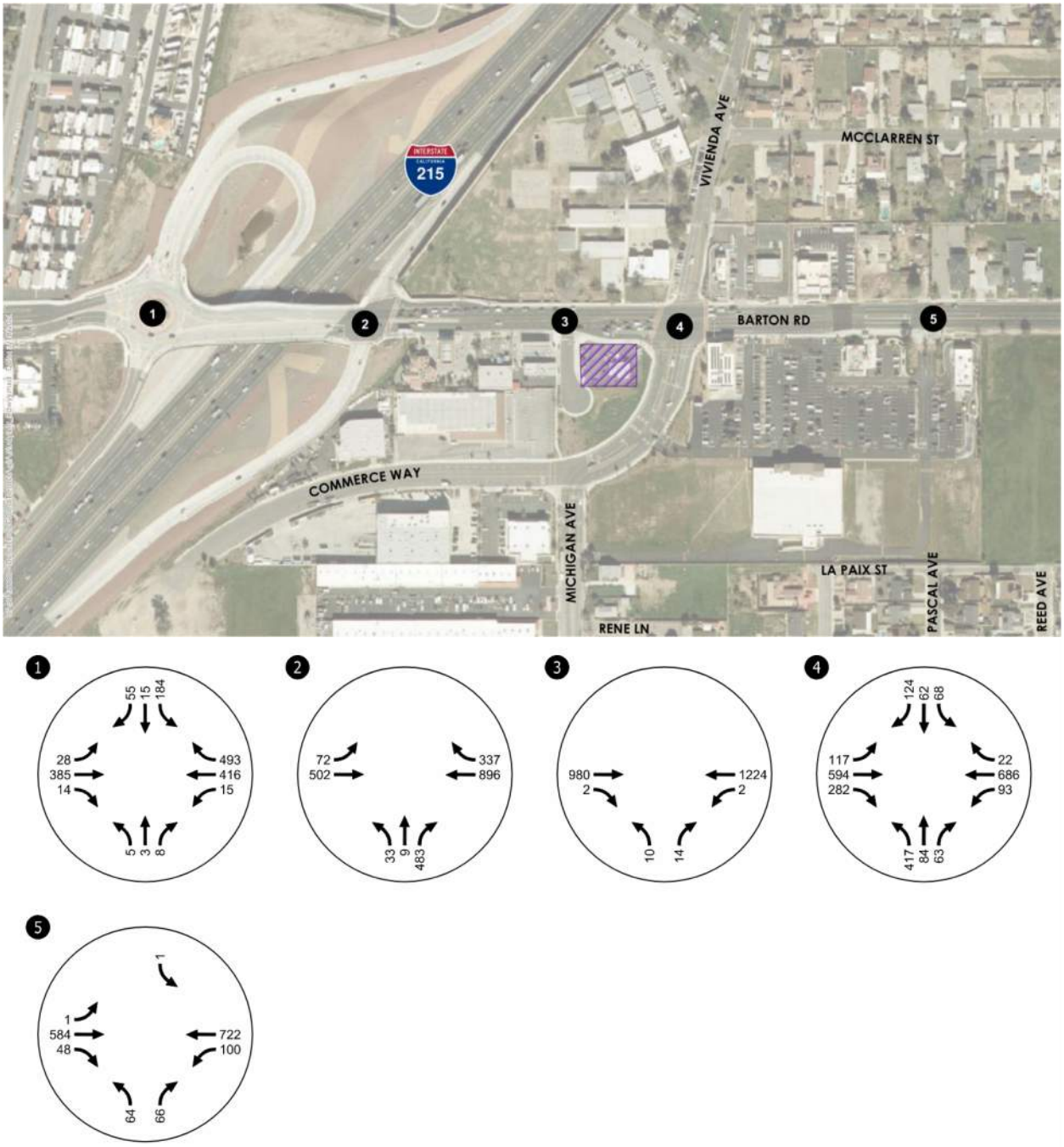
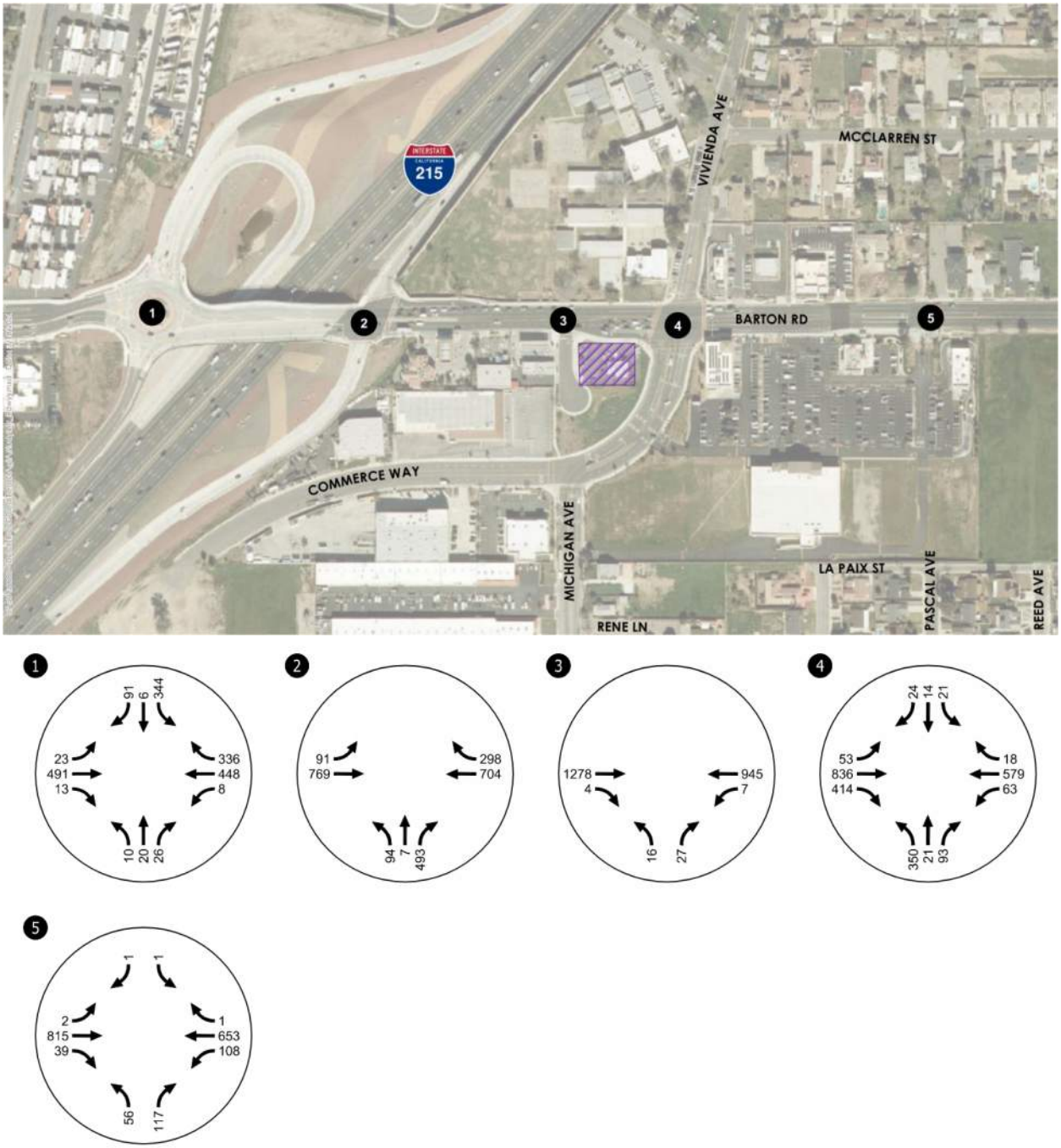


Figure 10: AM Peak Hour Volumes Under Existing Plus Ambient Growth Conditions



Existing Plus Ambient Growth Plus Project Conditions

For this scenario, an ambient growth rate of 2% per year was used to grow existing traffic volumes, and then the net new project trips were added. Figure 11 and Figure 12 illustrates the resulting AM and PM peak hour volumes, respectively. These volumes were analyzed using the existing intersection configurations to reflect an existing plus ambient growth plus project conditions.

Table 7 summarizes the delay and LOS analysis results for each study intersection under the existing plus ambient growth plus project conditions. Compared to existing conditions, there were some minor increases in delay for each intersection. Notably, intersection 3 (Michigan Street and Barton Road) operations changed from an LOS C to LOS D during the PM peak hour. Despite this change, all intersections were still expected to operate at LOS D or better.

Table 7: Existing Plus Ambient Growth Plus Project Conditions Level-of-Service Analyses Results

ID	Intersection	Control Type	Delay (s/veh)		LOS	
			AM	PM	AM	PM
1	I-215 Southbound Ramps / Barton Road	Single-Lane Roundabout	5.8	8.3	A	A
2	I-215 Northbound Ramps / Barton Road	Signalized	14.0	13.2	B	B
3	Michigan Street / Barton Road	SSSC	19.7	33.2	C	D
4	Commerce Way / Barton Road	Signalized	27.5	20.3	C	C
5	Town Square / Barton Road	Signalized	15.0	16.2	B	B

Note:
SSSC = Side-Street Stop-Controlled

SOURCE: KITTELSON AND ASSOCIATES, INC (2024)

Figure 11: AM Peak Hour Volumes Under Existing Plus Ambient Growth Plus Project Conditions

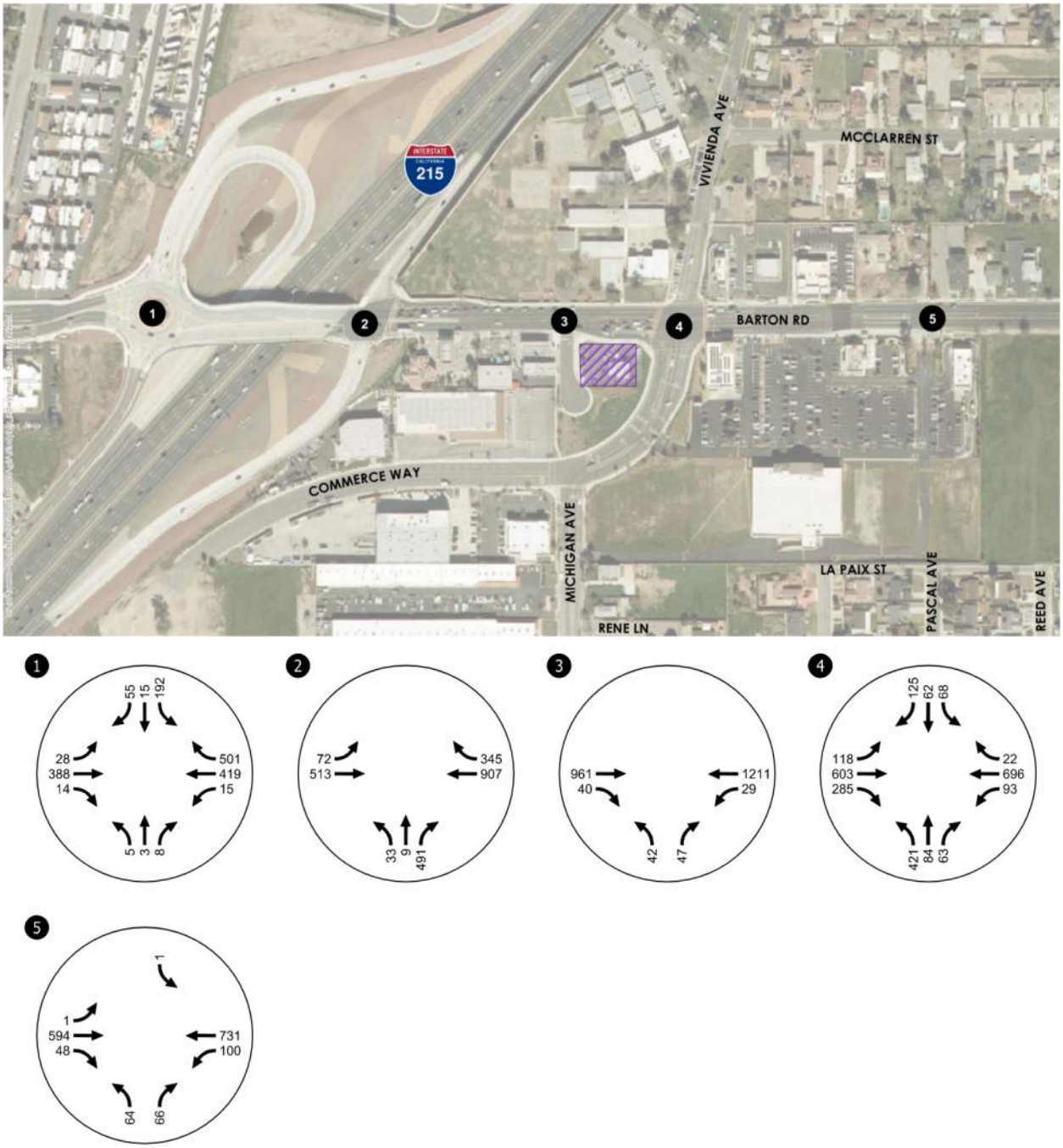
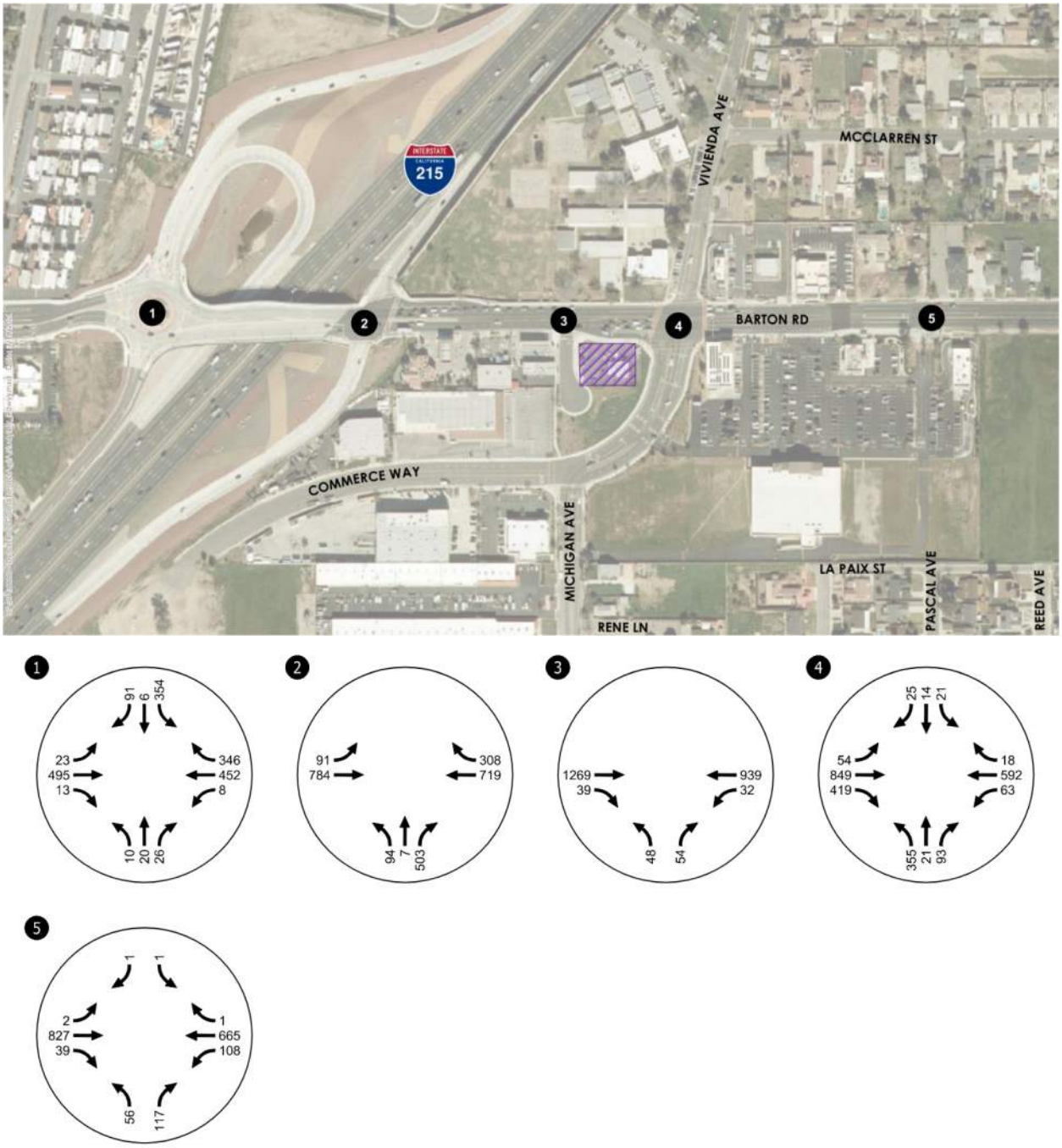


Figure 12: PM Peak Hour Volumes Under Existing Plus Ambient Growth Plus Project Conditions



SITE PERFORMANCE ANALYSES

The existing roadway conditions and proposed site plan were assessed to determine if on-site safety or operational improvements were necessary due to an increase in traffic from the project.

SITE ACCESS

When reviewing the proposed site access and on-site circulation, the following details were noted:

- **Parking**. Parking is provided on-site for employees, and overflow parking is not expected to occur as there is only a drive-through option for customers so parking would not be regularly needed by customers.
- **Sight Distance.** Sight distance from the project driveway was assessed, and no anticipated issues were found. The site plan confirms that there would not be any landscaping or other installations obstructing sight lines. The suggested layout ensures a clear line of sight to safely maneuver into or out of the drive-through lanes. In particular, visibility from where vehicles exit near the service window area allows for adequate monitoring of approaching cyclists, vehicles in the parking aisles, or pedestrians crossing the driveway.
- **Driveway Impacts.** The site plan provides adequate driveway throat depth to allow vehicles to enter the parking area and determine the appropriate drive through lane or access the parking spaces. Queues along Michigan Street would affect on-site circulation by preventing exiting vehicles from being able to exit onto Michigan Street. If the rate of exiting vehicles from the drive-through is faster than the rate of vehicles exiting from Michigan Street onto Barton Road, then it is recommended to reroute departing vehicles to the south driveway.
- **Adequacy of Pedestrian Facilities.** Pedestrian access to the site would include new walkways, ramps, and crosswalks along the project frontage that would facilitate pedestrian access by connecting on-site parking and the store frontage to the existing sidewalk along Barton Road.
- **Bicycle Accessibility.** Class II bicycle facilities are provided along Barton Road and Commerce Way. However, bicyclists would need to use the existing sidewalks to access the project site. Furthermore, bicycle parking is provided on-site.
- **Accessibility from Adjacent Transit Stops.** The nearest bus stop to the project is approximately 650 feet east of the project site. The bus stop serves Route 305 operated by Omnitrans and is located approximately 450 feet east of the intersection of Barton Road and Commerce Way. Riders would need to cross one signalized intersection to get to the project site. Sidewalks are also provided from the bus stop to the project site.

SITE SAFETY AND OPERATIONS

Queuing at coffee shop drive-throughs often are where potential impacts to the roadway network occur. To estimate the potential queueing conditions and how often it may affect public right-of-way, an M/M/1 queuing model was used. This model assumes that customer arrivals and service times are random and requires the average arrival and service rates as inputs. Using historical transaction data from similar Dutch Bros stores, 68 and 80 vehicles per hour were used as conservative average arrival and service rates, respectively, for the proposed store.

From the model, it was determined that there is a 5% probability that the number of vehicles waiting to be served will be longer than 18 vehicles as shown in Figure 13. Since the drive-through can accommodate up to 15 vehicles and the site can accommodate an additional four vehicles before entering public right-of-way, a total of 19 vehicles can be accommodated before spilling onto public right-of-way. Therefore, it is expected that queues would regularly remain within the designated queue storage area.

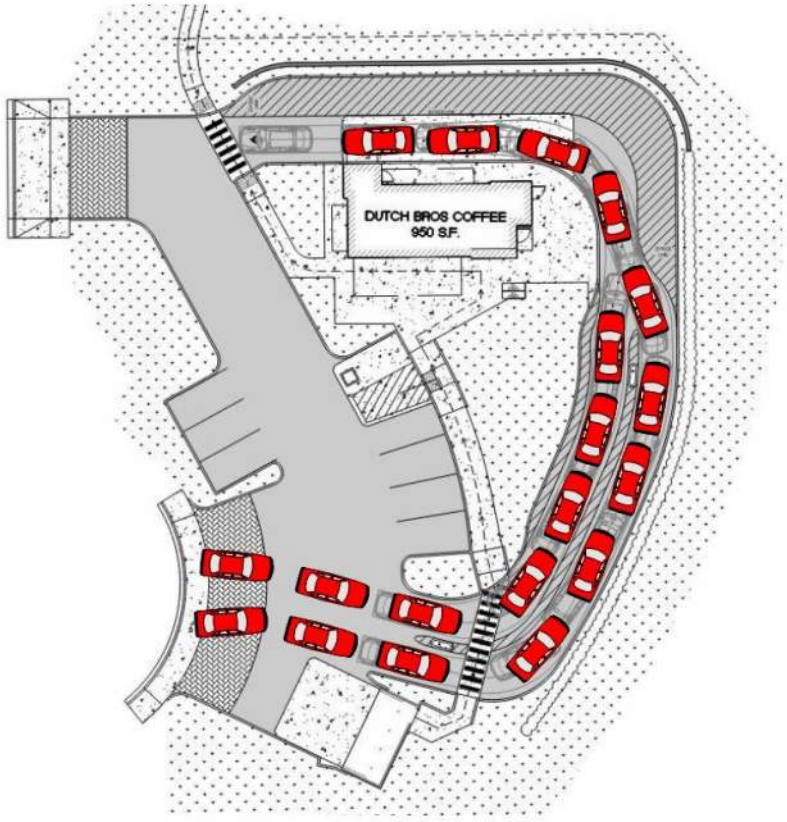
It should be noted that accurately estimating total latent demand is difficult due to various factors. These factors include the location, type, convenience, and pricing of competing opportunities in the area, as

well as the traffic volume on adjacent streets and the socioeconomic characteristics of the nearby population and employment areas.

Queues extending beyond the storage area are not anticipated to be an issue based on other similar market area sites. However, there are several strategies that Dutch Bros uses to proactively manage queues. These include:

- Dutch Bros staff takes orders and payments from and makes deliveries to the queued drive-through lanes to minimize the wait time at the service window.
- The site plan includes a queue exit lane adjacent to the pick-up window. This is an important queue length management feature because it allows vehicles that receive their fulfilled orders prior to reaching the pick-up window to exit out of the queue early, thereby reducing the overall length of the queue.
- Dutch Bros staff can act as temporary traffic control personnel who can effectively manage queues and prevent blockage situations.
- Parking on site can be used as waiting areas for vehicles that make large orders. This is an important operations factor that provides the ability to remove vehicles with long order fulfillment times from the queue and provide a significant positive effect on the overall queue length.

Figure 13: 95th Percentile Queuing Scenario



SOURCE: KITTELSON AND ASSOCIATES (2024); SITE PLAN IS DRAWN BY BARGHAUSEN CONSULTING ENGINEERS (2023)

SUMMARY

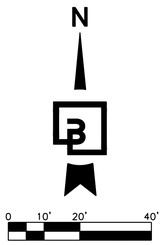
Based on the findings of the analyses performed in this study consistent with the City of Grand Terrace's Traffic Impact Guidelines, the proposed 950-sf Dutch Bros coffee shop at 22115 Barton Road is not anticipated to have adverse impacts on the surrounding roadway network. The project site is accessible by pedestrians, bicycles, and transit, and parking provided is anticipated to be sufficient. Recommendations for queue management are provided to prepare for the potential when queued vehicles at the coffee shop extend beyond the dedicated storage area for Dutch Bros.

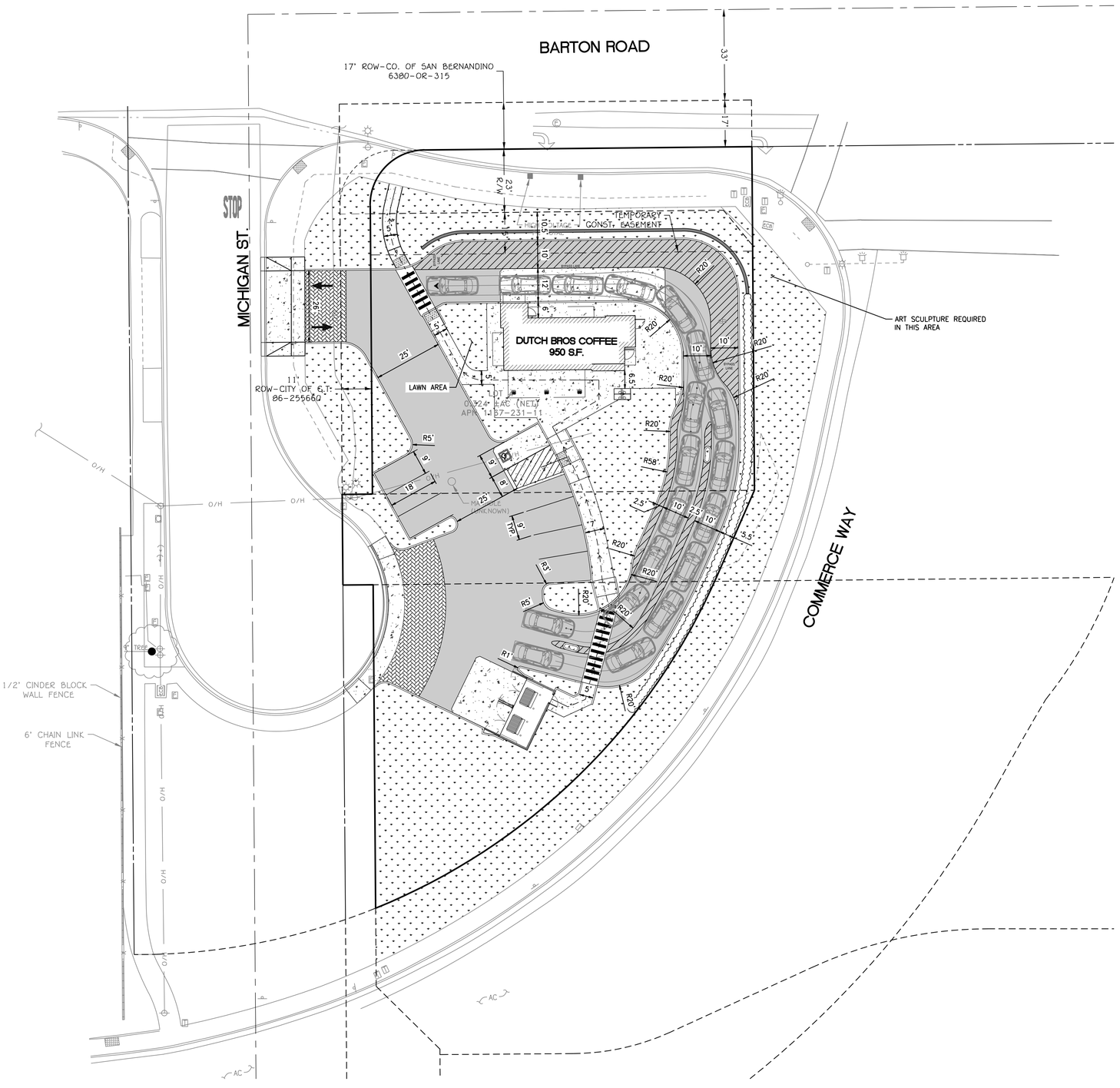
The project is assumed to have a less than significant impact on vehicle miles travelled as it is a local serving retail use that screens out of detailed VMT analysis.

Appendix A
Proposed Site Plan

DUTCH BROS. COFFEE - CA5204, GRAND TERRACE, CA

PRELIMINARY SITE PLAN







PROJECT DATA

DB2550-A1

TRASH ENCLOSURE	= 24'x12'
PROPOSED REGULAR PARKING	= 7
PROPOSED ADA PARKING	= 1
TOTAL PROPOSED PARKING	= 8
QUEUING	= 18

DUTCH BROS

12/12/23
DATE REVIEWED

APPROVED:
NO RESUBMITTAL REQUIRED

REVISE:
RESUBMITTAL REQUIRED

CONTACT THE DB REAL ESTATE REPRESENTATIVE FOR FURTHER CLARIFICATION

LEGEND

- BUILDING LINE
- EXISTING CURB TO REMAIN
- PROPOSED CURB
- PROPOSED LANDSCAPING
- PROPOSED ASPHALT
- PROPOSED CONCRETE

PRELIMINARY NOT FOR CONSTRUCTION

Title: PRELIMINARY SITE PLAN
22115 BARTON ROAD
GRAND TERRACE, CA 92313

For: DUTCH BROS

LICENSED PROFESSIONAL ENGINEER
HAL P. BARGHAUSEN
No. 79814
CIVIL
STATE OF CALIFORNIA
Not for Construction

Scale: Horizontal 1" = 20' Vertical N/A

Designed CCK
Drawn CCK
Checked JAH
Approved HPG
Date 11/28/23

Barghausen Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 22144

Sheet 1 OF 1

2019 DB Franchising USA, LLC

\\Apollo-WA\Projects\22000s\22144\preliminary\22144-SP.dwg 12/8/2023 11:55 AM AJONES

"The name DUTCH BROS. and all associated logos, distinctive designs, content, information, and other materials featured, displayed, contained herein, and made available by Dutch Bros., including but not limited to, the "look and feel" of the establishments and products, all text, images, colors, configurations, graphics, designs, illustrations, photographs, and pictures (collectively, the "Materials") are owned by and/or licensed by DB Franchising USA, LLC and are protected by copyright, trademark, trade dress, patent, and/or other intellectual property rights and unfair competition laws under the United States and foreign laws."

Appendix B

Dutch Bros Historical Transaction Data

DUTCH BROS TRANSACTION DATA

Average of [Gue Column Labels				
Row Labels	Indio CA3702	La Quinta CA3703	Yucaipa CA4501	MAX OF LOCATIONS
0	2.0			2.0
1		4.0		4.0
4	1.2	1.3	1.3	1.3
5	11.0	15.0	18.4	18.4
6	23.5	29.6	32.6	32.6
7	43.3	53.0	53.4	53.4
8	48.5	64.9	61.1	64.9
9	42.4	60.8	61.6	61.6
10	42.2	58.4	65.3	65.3
11	42.7	57.4	67.6	67.6
12	41.1	51.8	67.7	67.7
13	38.7	52.0	65.0	65.0
14	38.6	51.3	66.6	66.6
15	37.7	52.7	67.8	67.8
16	32.5	44.6	58.9	58.9
17	29.5	39.6	53.0	53.0
18	28.8	32.5	49.8	49.8
19	25.0	27.8	47.9	47.9
20	24.0	25.0	44.7	44.7
21	22.0	20.5	35.7	35.7
22	18.3	10.8	19.7	19.7
23	1.6	1.6	1.6	1.6
Daily Average	**32.2**	**42.0**	**52.1**	**43.2**
Daily Total	**594.6**	**754.8**	**939.8**	**939.8**

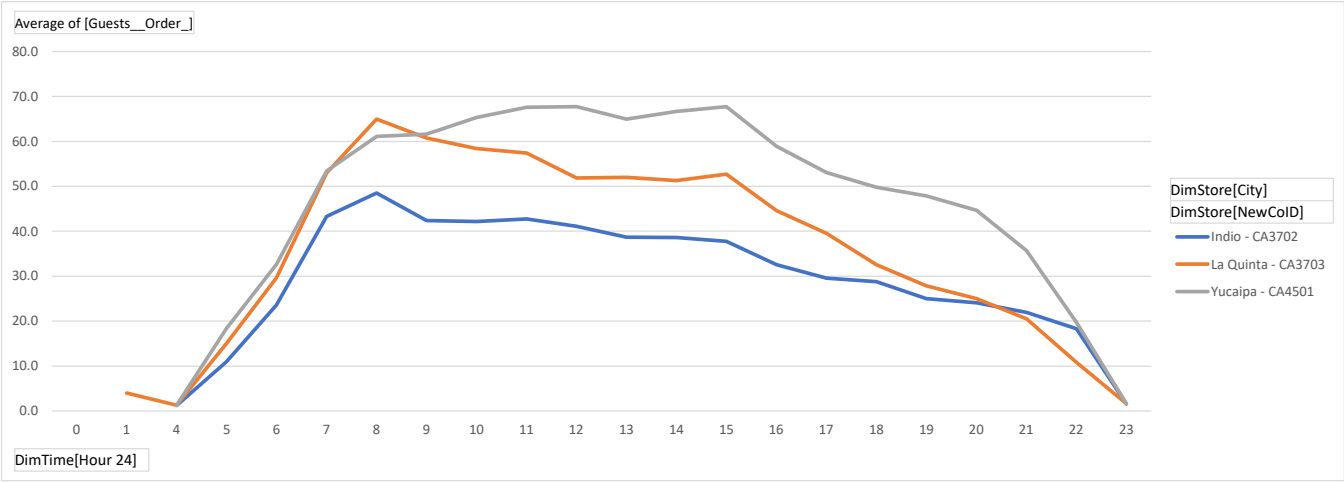
ITE TRIP GENERATION RATES AND ESTIMATES FOR COMPARISON

Table 1 - Trip Generation Rates

Land Use	ITE Code	Unit	Weekday								
			Daily			AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total	In	Out	Total
Coffee/Donut Shop with Drive-Through Window and No Indoor Seating	938	Drive-Through Lanes	50%	50%	179.00	50%	50%	39.81	50%	50%	15.08

Table 2 - Trip Generation Estimates

Land Use	ITE Code	Size		Weekday								
				Daily			AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total	In	Out	Total
Coffee/Donut Shop with Drive-Through Window and No Indoor Seating	938	2	Drive-Through Lanes	179	179	358	40	40	80	15	15	30



HISTORICAL TRANSACTION DATA GENERATION ESTIMATES

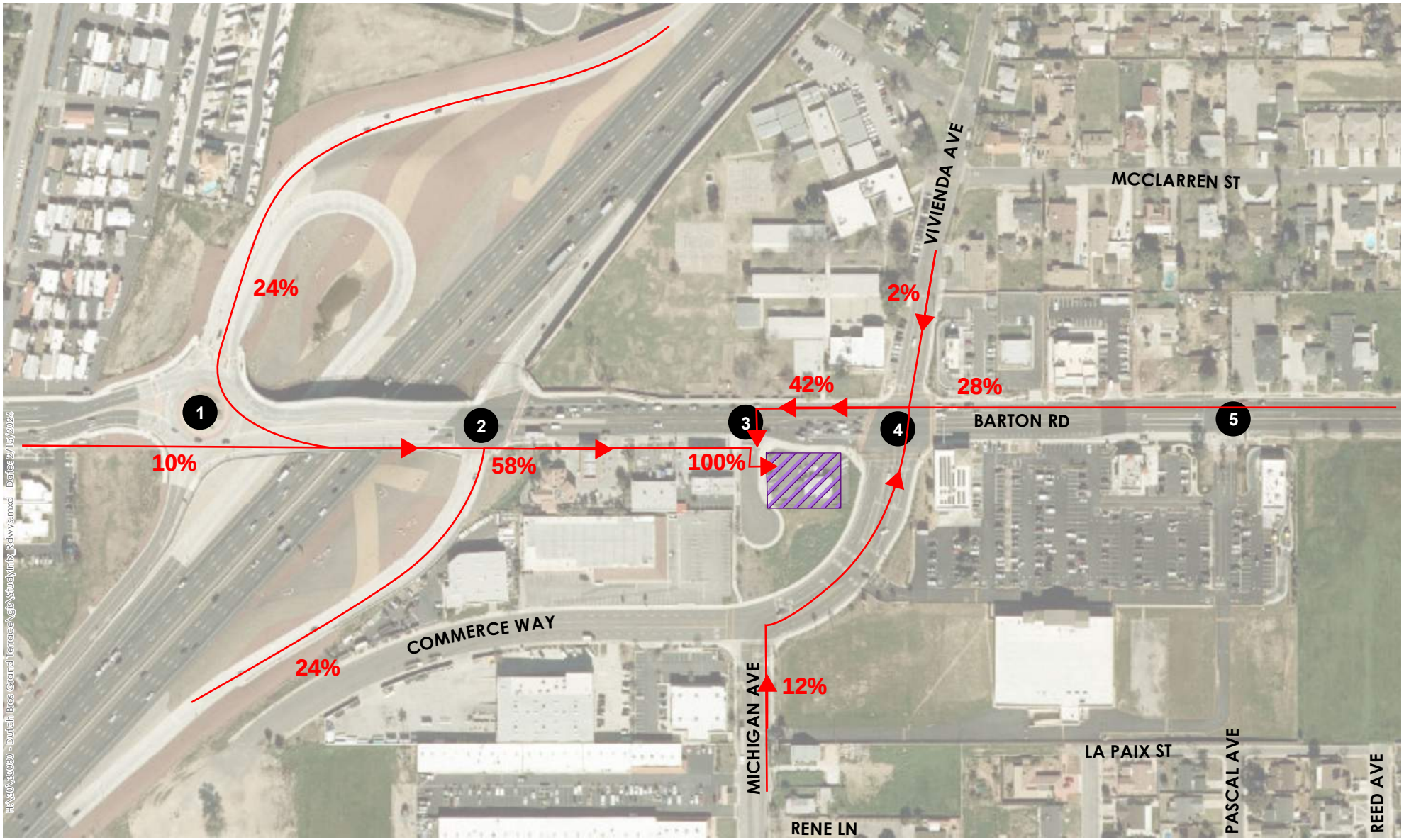
Weekday								
AM Peak Hour			PM Peak Hour			Daily		
In	Out	Total	In	Out	Total	In	Out	Total
60	60	120	54	54	108	940	940	1,880

* took the average of the maximum number of transactions across the three locations during the associated peak period

Appendix C

Detailed Trip Distribution

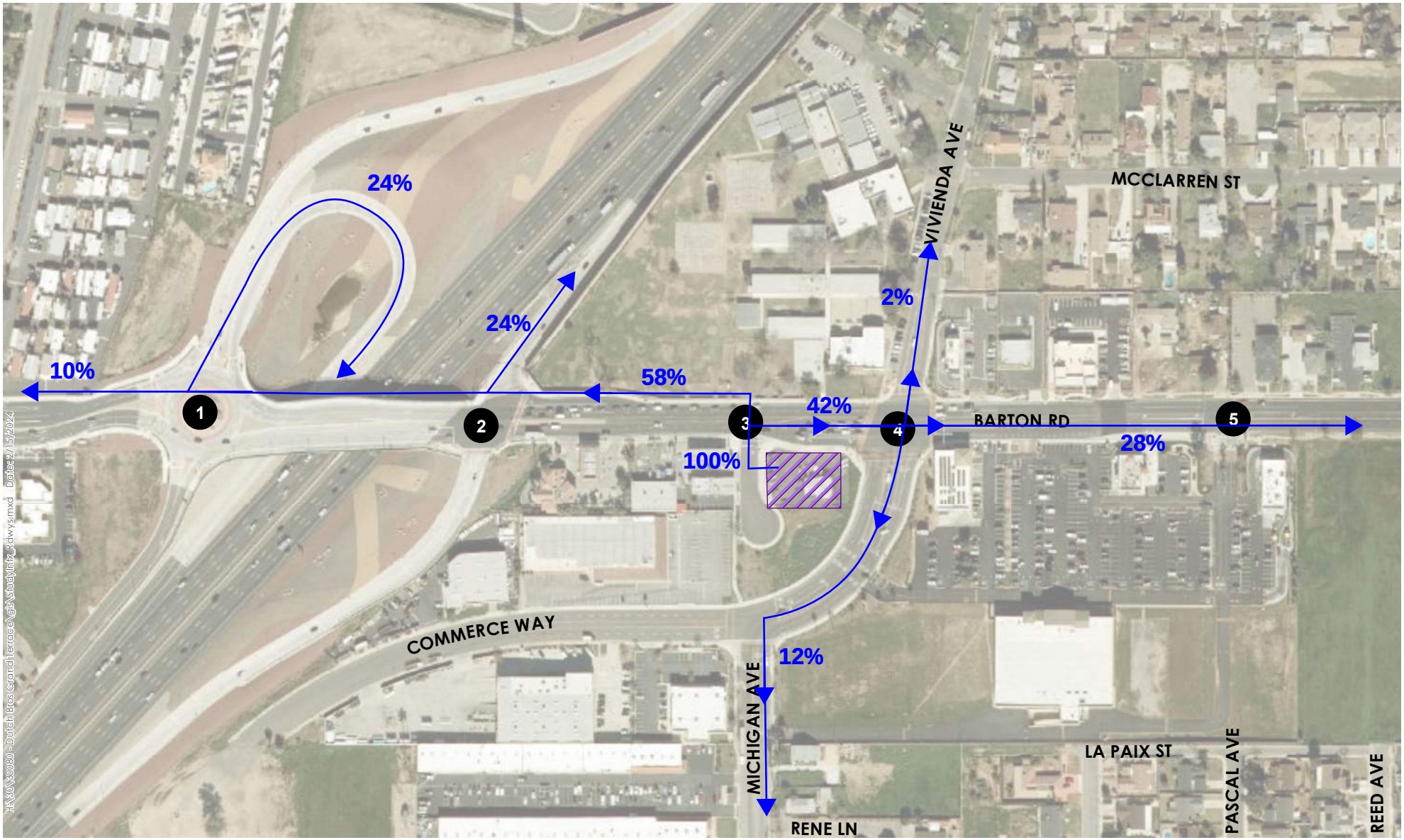
INFLOW TRIP ASSIGNMENT



0 375 Feet

KITTELSON & ASSOCIATES

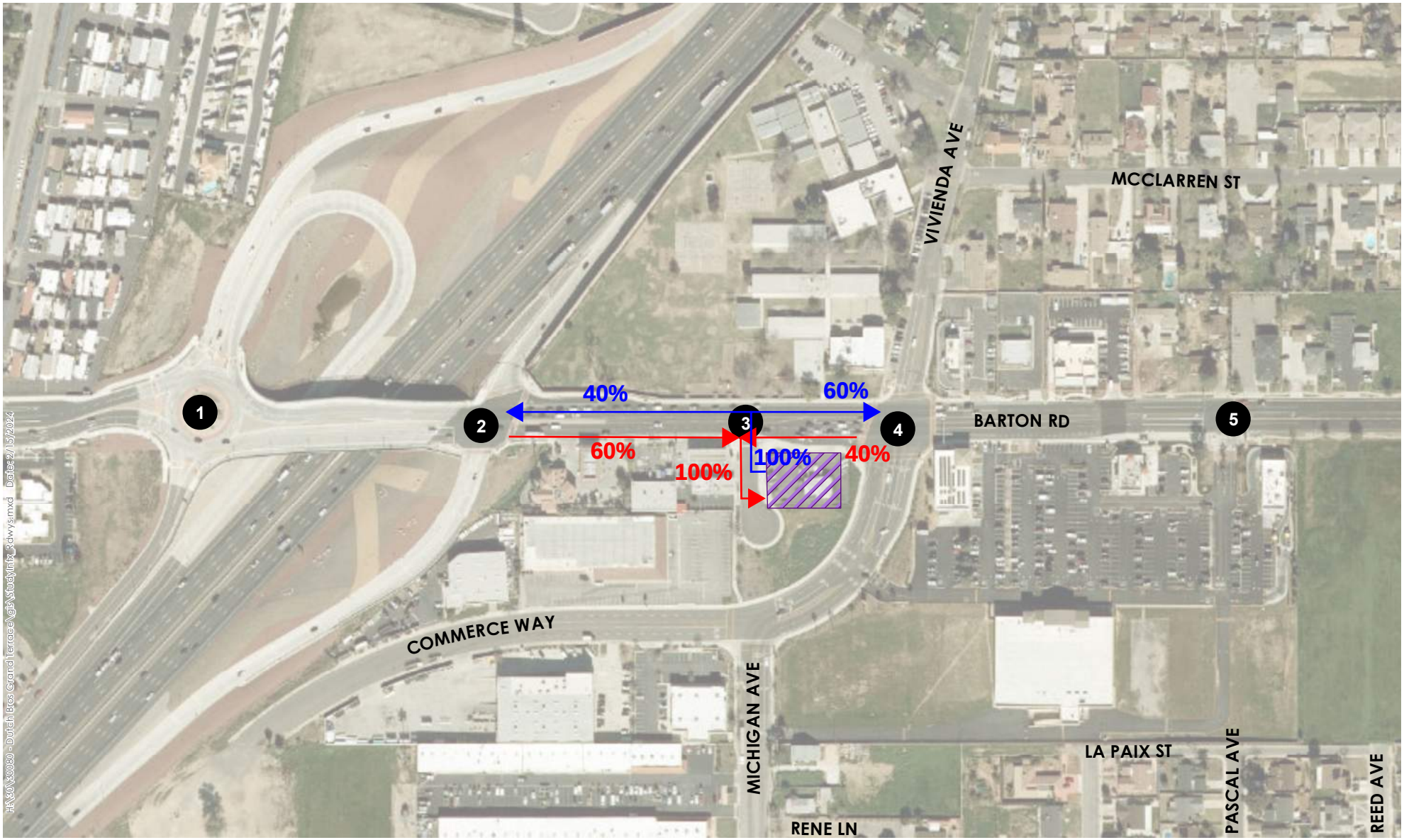
OUTFLOW TRIP ASSIGNMENT



0 375 Feet

KITTELSON & ASSOCIATES

PASS-BY TRIP ASSIGNMENT



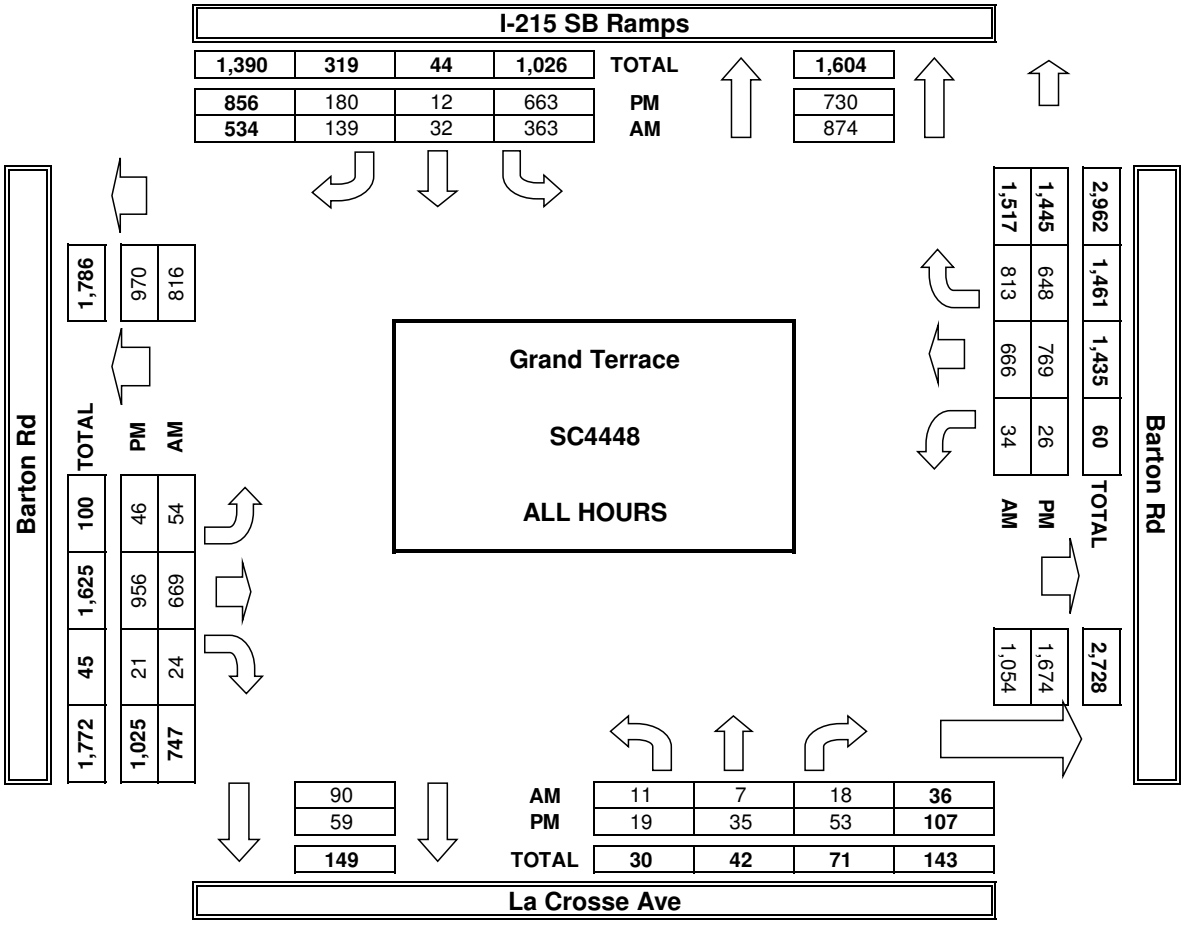
0 375 Feet

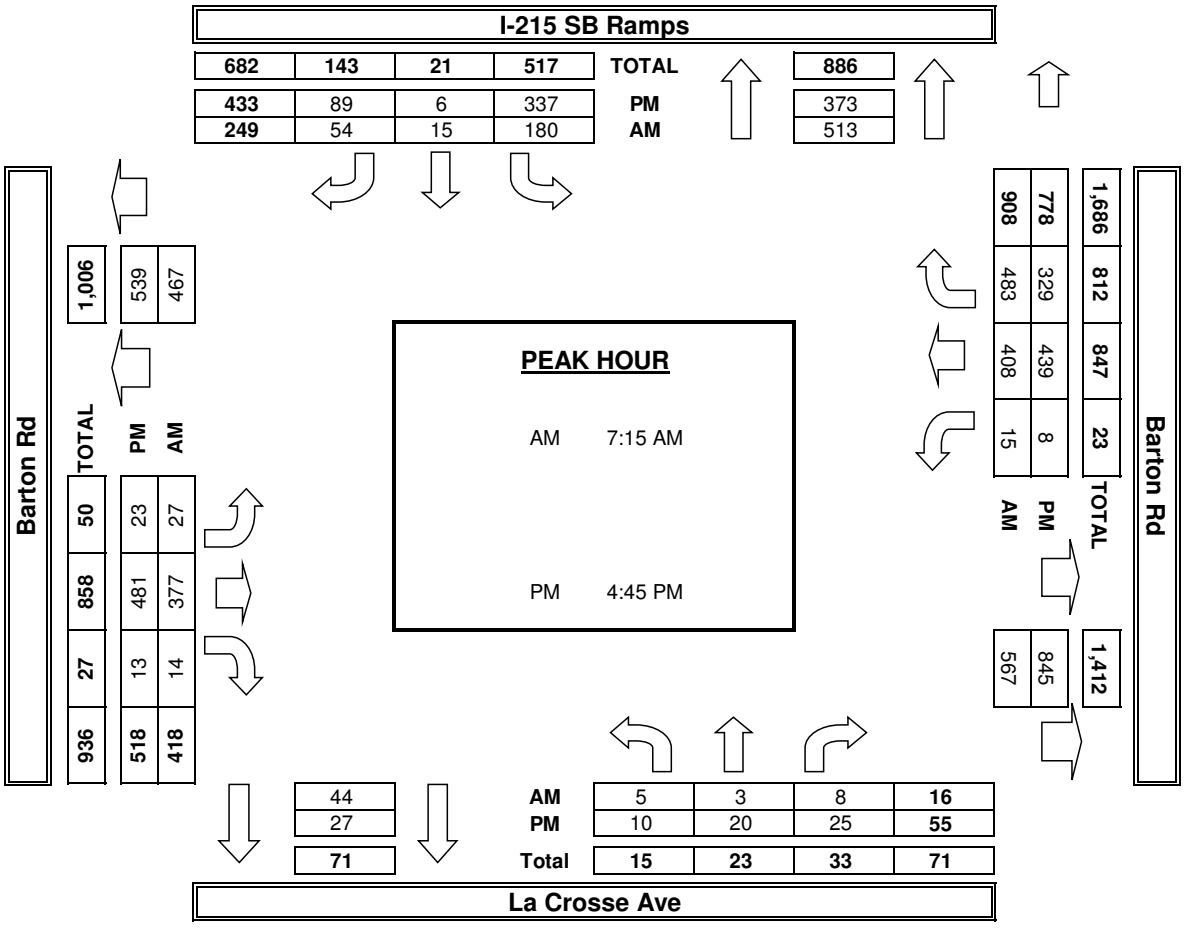
KITTELSON & ASSOCIATES

Appendix D
Traffic Counts

AimTD LLC

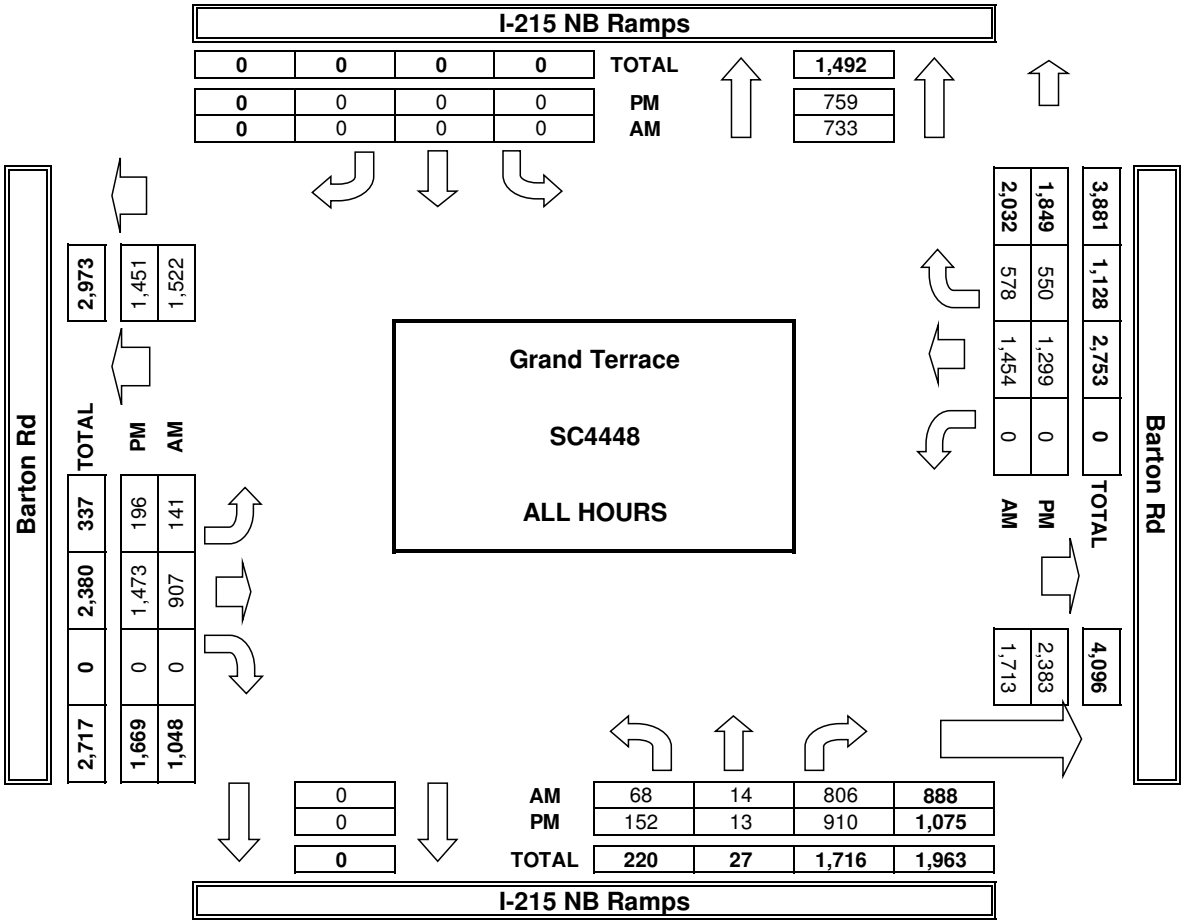
TURNING MOVEMENT COUNTS

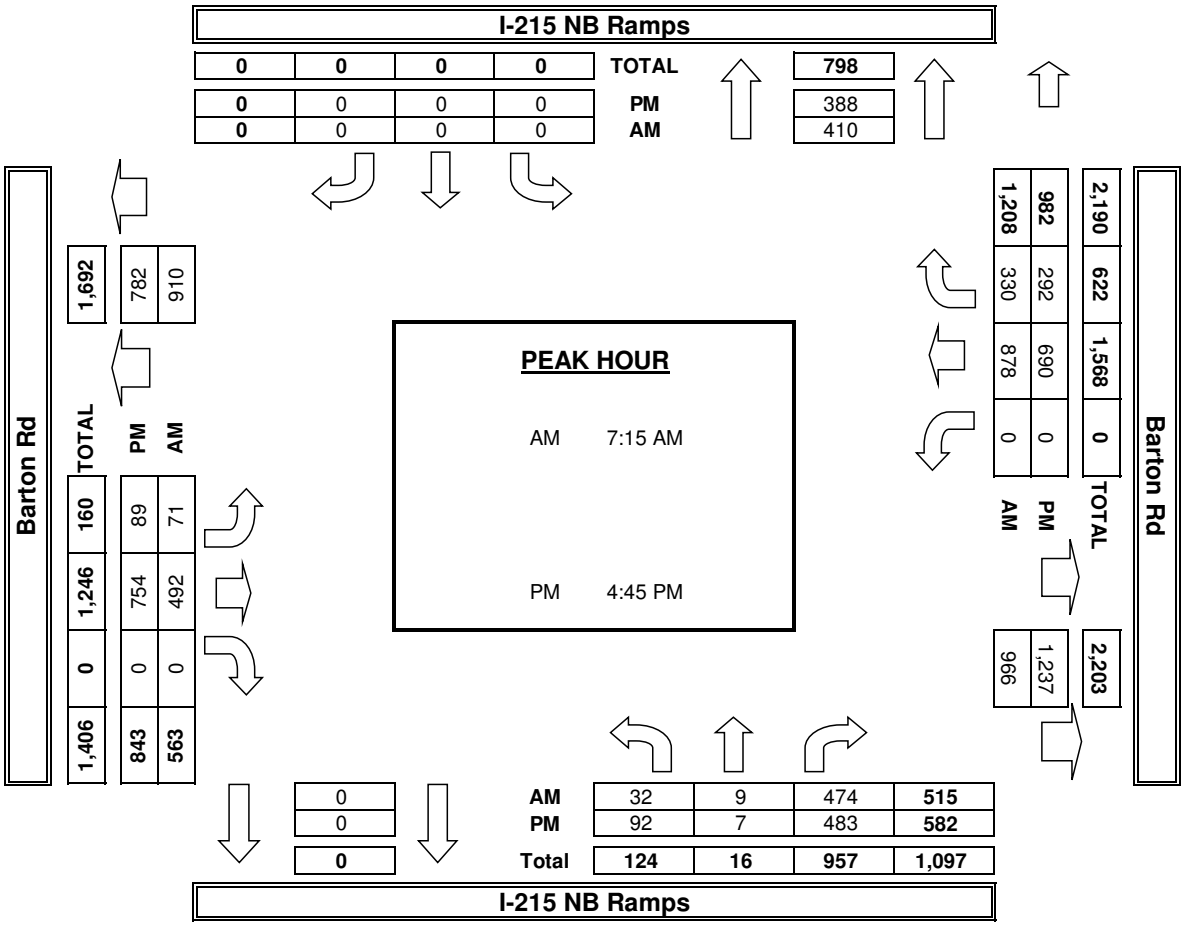




AimTD LLC

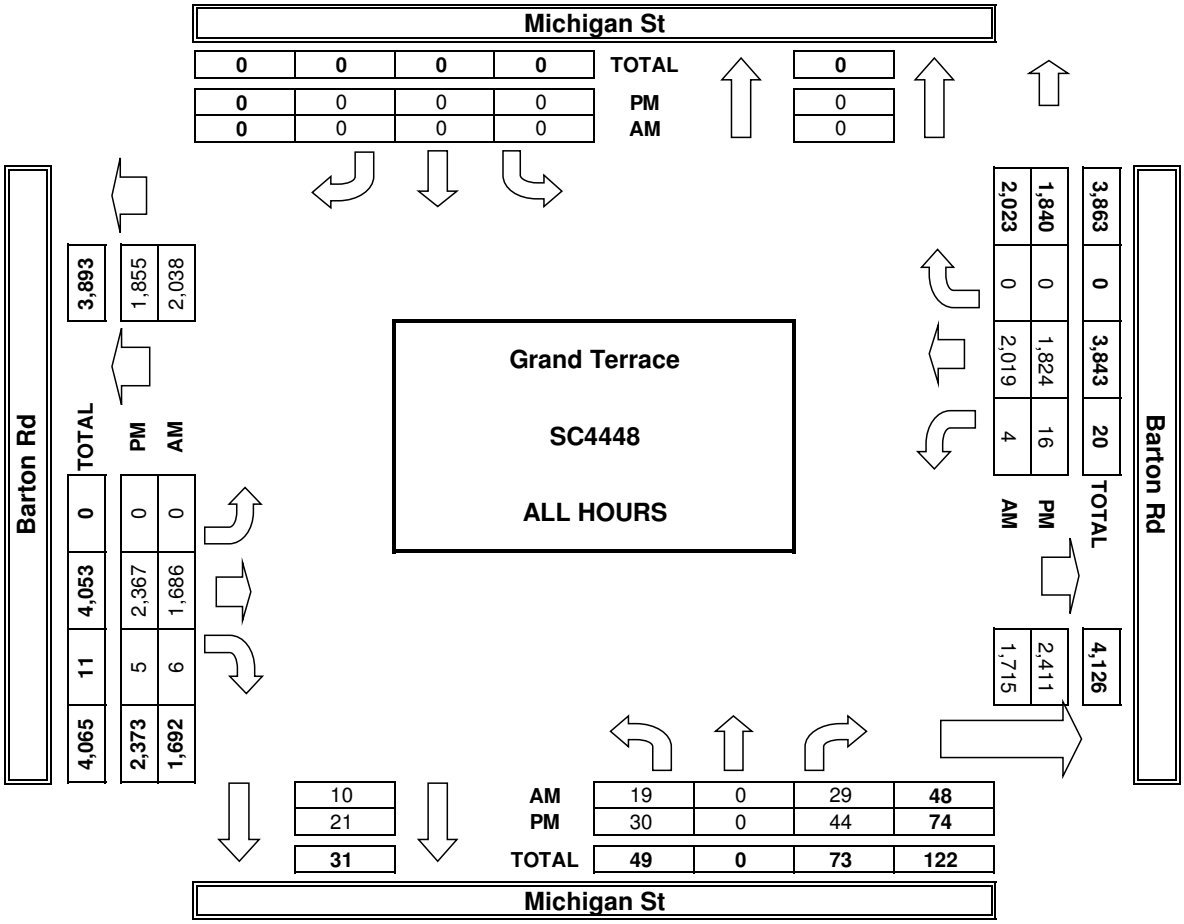
TURNING MOVEMENT COUNTS

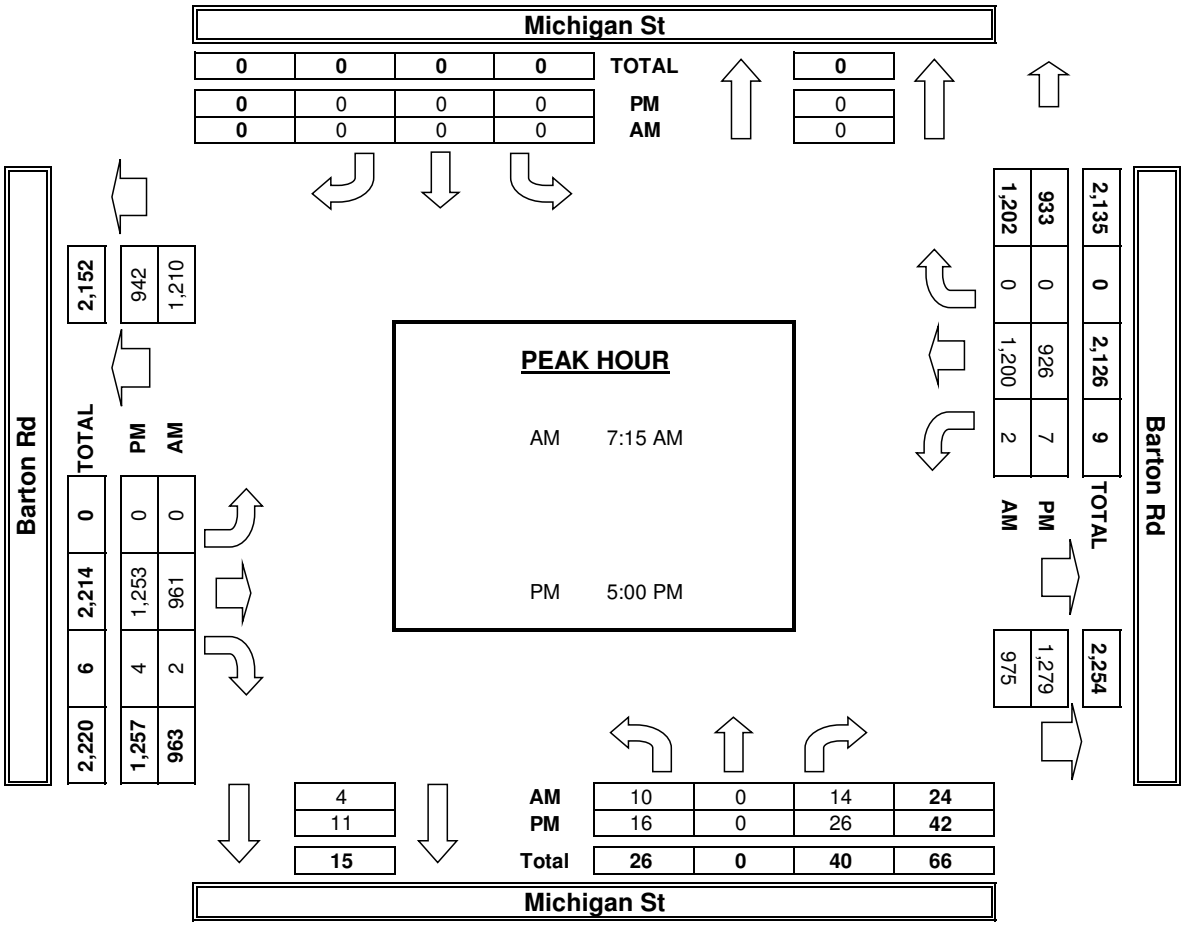




AimTD LLC

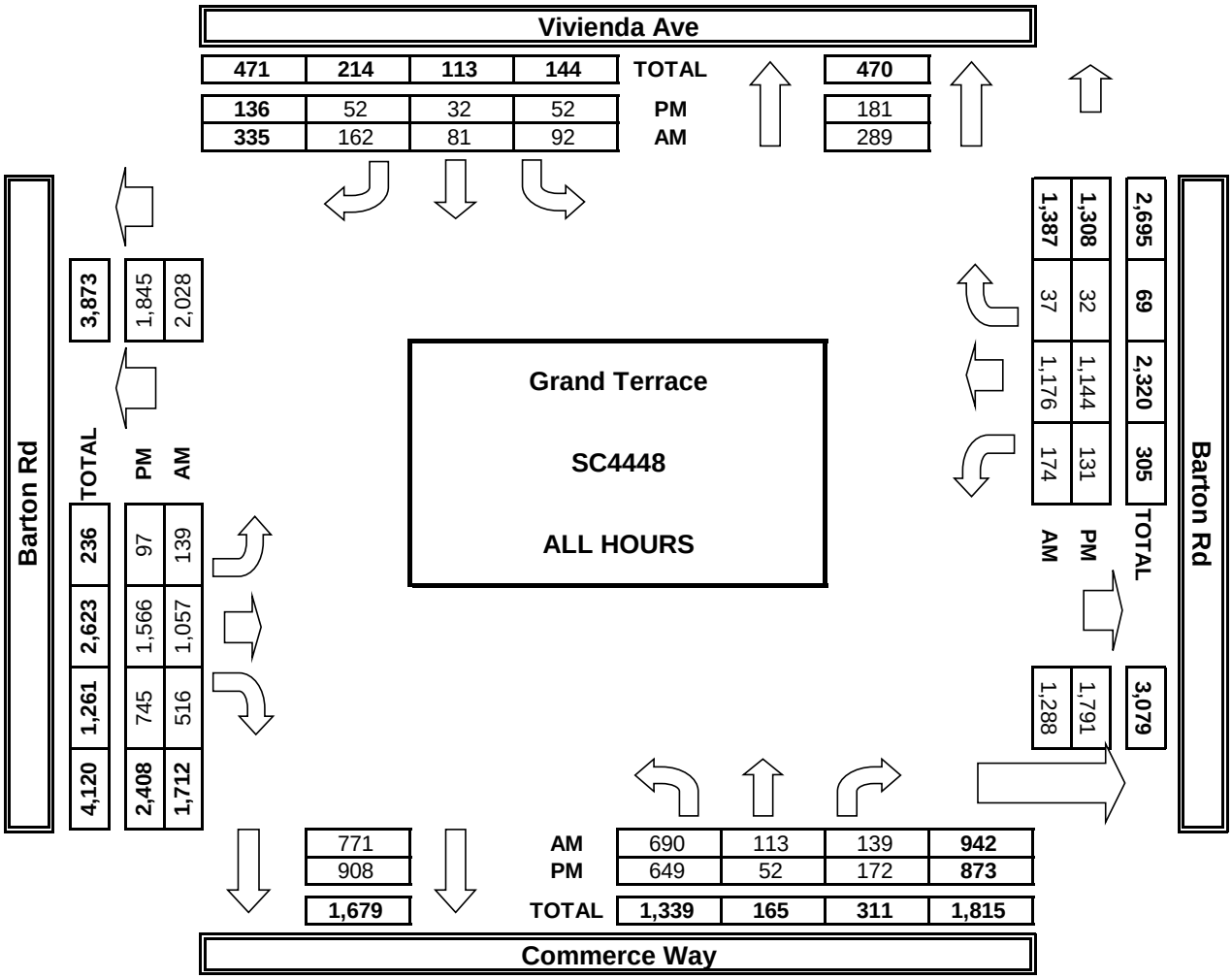
TURNING MOVEMENT COUNTS

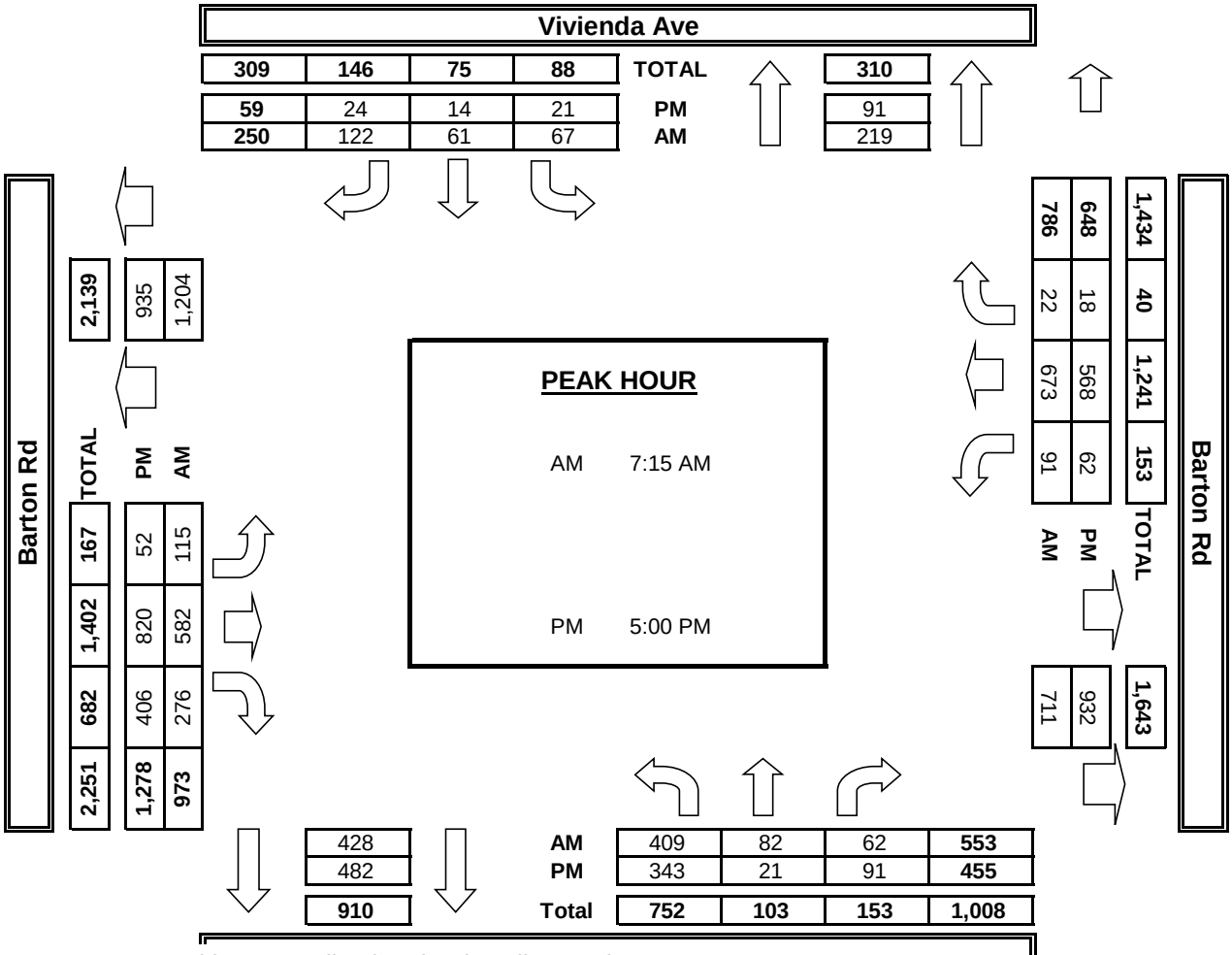




AimTD LLC

TURNING MOVEMENT COUNTS

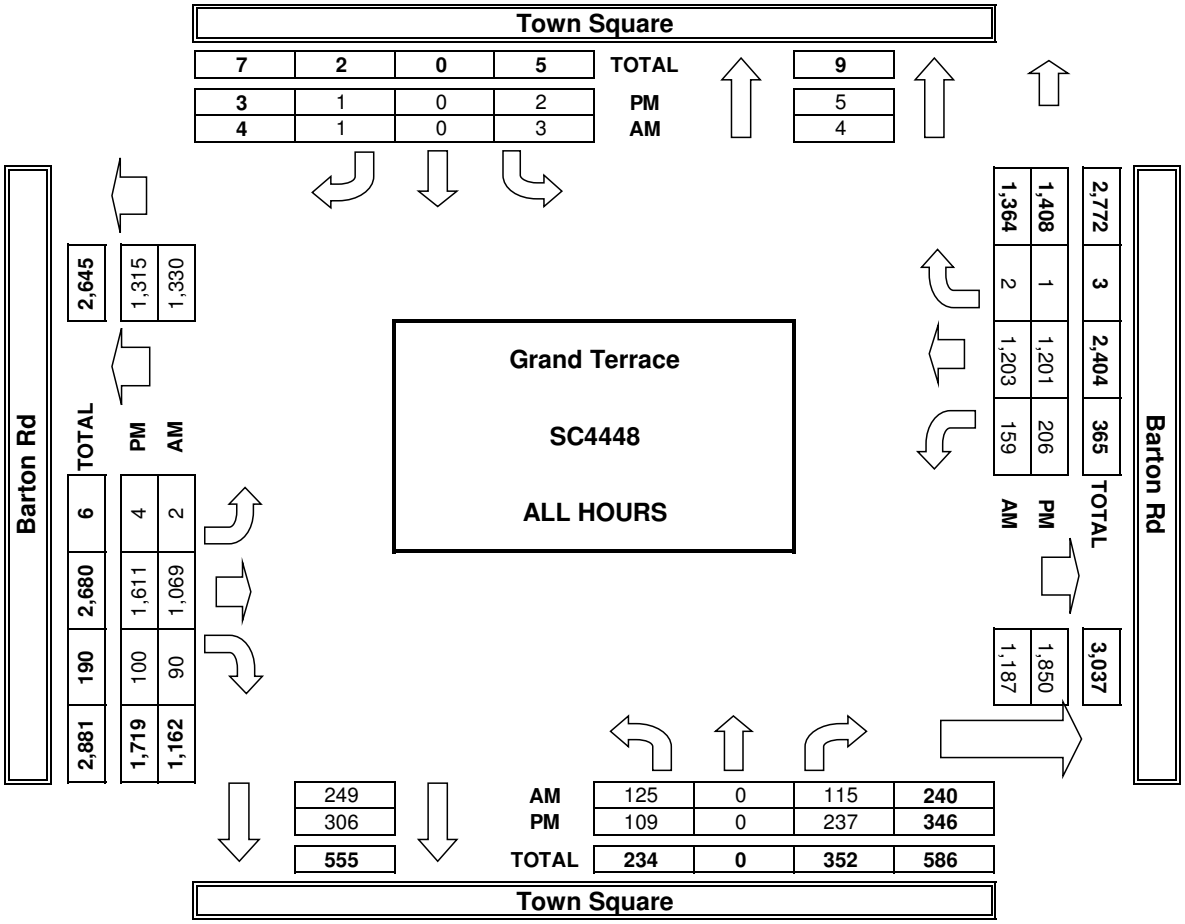


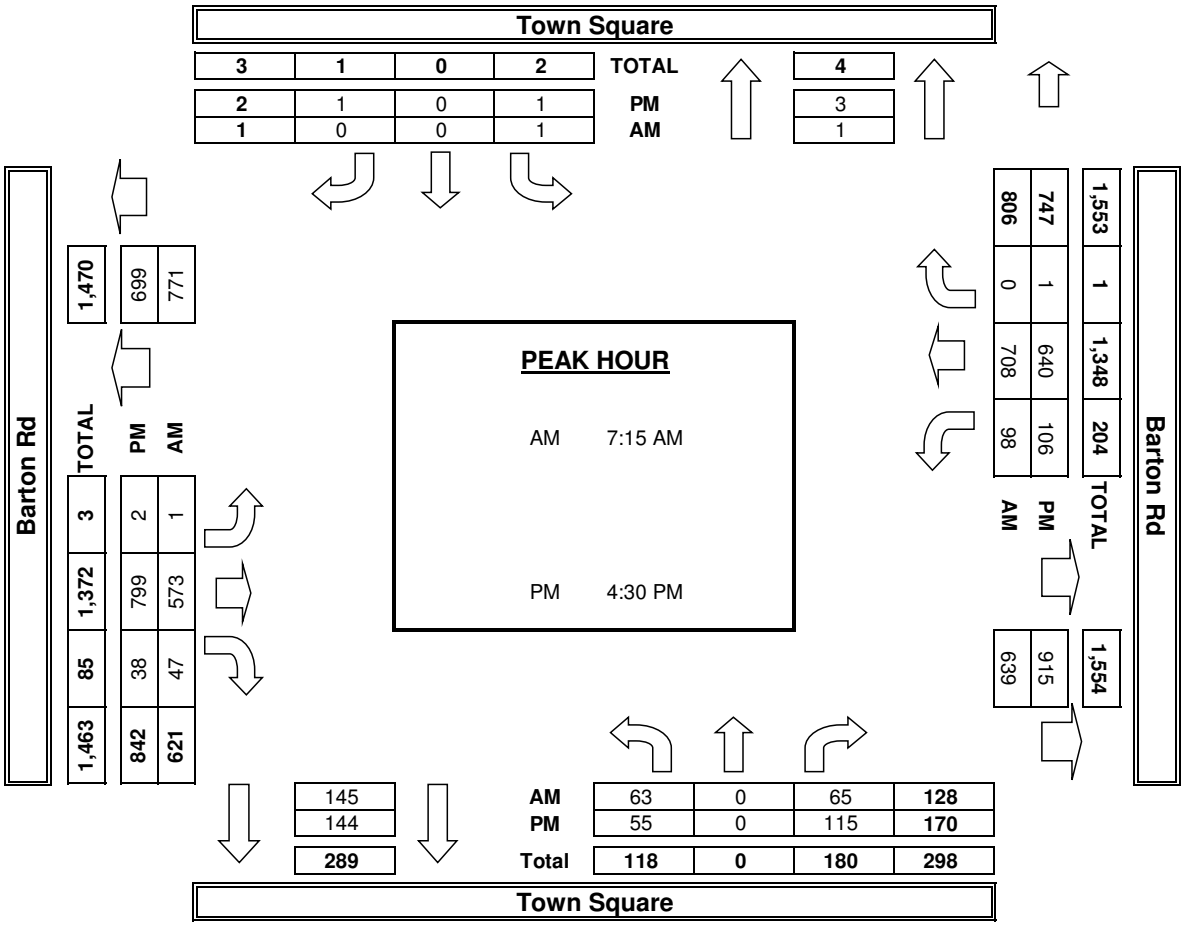


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AimTD LLC

TURNING MOVEMENT COUNTS





Appendix E

Operations Analysis Reports

MOVEMENT SUMMARY

Site: 101 [I-215 SB/Barton Rd - AM (Site Folder: General)]

Output produced by SIDRA INTERSECTION Version: 9.1.6.228

Existing Conditions Analysis AM
Site Category: NA
Roundabout

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] ft	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South: La Crosse Ave															
3	L2	All MCs	5	3.0	5	3.0	0.023	4.9	LOS A	0.1	1.9	0.50	0.40	0.50	24.6
8	T1	All MCs	3	3.0	3	3.0	0.023	4.9	LOS A	0.1	1.9	0.50	0.40	0.50	33.2
18	R2	All MCs	9	3.0	9	3.0	0.023	4.9	LOS A	0.1	1.9	0.50	0.40	0.50	30.2
Approach			17	3.0	17	3.0	0.023	4.9	LOS A	0.1	1.9	0.50	0.40	0.50	29.1
East: Barton Rd															
1	L2	All MCs	16	3.0	16	3.0	0.346	5.5	LOS A	1.9	49.5	0.17	0.05	0.17	30.3
6	T1	All MCs	443	3.0	443	3.0	0.346	5.5	LOS A	1.9	49.5	0.17	0.05	0.17	19.5
16	R2	All MCs	525	3.0	525	3.0	0.395	6.0	LOS A	2.4	60.8	0.19	0.06	0.19	30.3
Approach			985	3.0	985	3.0	0.395	5.8	LOS A	2.4	60.8	0.18	0.05	0.18	26.3
North: I-215 SB Ramp															
7	L2	All MCs	196	3.0	196	3.0	0.236	6.4	LOS A	0.9	23.5	0.51	0.40	0.51	23.5
4	T1	All MCs	16	3.0	16	3.0	0.236	6.4	LOS A	0.9	23.5	0.51	0.40	0.51	31.1
14	R2	All MCs	59	3.0	59	3.0	0.071	5.0	LOS A	0.2	6.4	0.47	0.37	0.47	30.7
Approach			271	3.0	271	3.0	0.236	6.1	LOS A	0.9	23.5	0.50	0.39	0.50	25.2
West: Barton Rd															
5	L2	All MCs	29	3.0	29	3.0	0.206	5.1	LOS A	0.9	22.9	0.38	0.23	0.38	30.0
2	T1	All MCs	410	3.0	410	3.0	0.206	5.1	LOS A	0.9	22.9	0.38	0.23	0.38	24.6
12	R2	All MCs	15	3.0	15	3.0	0.206	5.1	LOS A	0.9	22.9	0.38	0.23	0.38	30.9
Approach			454	3.0	454	3.0	0.206	5.1	LOS A	0.9	22.9	0.38	0.23	0.38	25.5
All Vehicles			1727	3.0	1727	3.0	0.395	5.7	LOS A	2.4	60.8	0.29	0.16	0.29	25.9

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: Same as Sign Control.
Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.
LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).
Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).
Roundabout Capacity Model: US HCM 6.
Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	71	492	0	0	878	330	32	9	474	0	0	0
Future Volume (veh/h)	71	492	0	0	878	330	32	9	474	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1870	1870	0	0	1870	1870	1870	1870	1870			
Adj Flow Rate, veh/h	76	523	0	0	934	351	34	0	511			
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94			
Percent Heavy Veh, %	2	2	0	0	2	2	2	2	2			
Cap, veh/h	114	1951	0	0	1382	617	407	0	724			
Arrive On Green	0.06	0.55	0.00	0.00	0.39	0.39	0.23	0.00	0.23			
Sat Flow, veh/h	1781	3647	0	0	3647	1585	1781	0	3170			
Grp Volume(v), veh/h	76	523	0	0	934	351	34	0	511			
Grp Sat Flow(s),veh/h/ln	1781	1777	0	0	1777	1585	1781	0	1585			
Q Serve(g_s), s	2.2	4.1	0.0	0.0	11.3	9.1	0.8	0.0	7.7			
Cycle Q Clear(g_c), s	2.2	4.1	0.0	0.0	11.3	9.1	0.8	0.0	7.7			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	114	1951	0	0	1382	617	407	0	724			
V/C Ratio(X)	0.67	0.27	0.00	0.00	0.68	0.57	0.08	0.00	0.71			
Avail Cap(c_a), veh/h	855	4435	0	0	2388	1065	1026	0	1826			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	23.8	6.2	0.0	0.0	13.2	12.5	15.8	0.0	18.5			
Incr Delay (d2), s/veh	2.5	0.1	0.0	0.0	0.4	0.6	0.1	0.0	1.3			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.9	1.1	0.0	0.0	3.9	2.8	0.3	0.0	2.6			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	26.3	6.3	0.0	0.0	13.6	13.1	15.9	0.0	19.8			
LnGrp LOS	C	A			B	B	B		B			
Approach Vol, veh/h		599			1285			545				
Approach Delay, s/veh		8.8			13.5			19.5				
Approach LOS		A			B			B				
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		34.4			8.3	26.1		17.7				
Change Period (Y+Rc), s		5.8			5.0	5.8		5.8				
Max Green Setting (Gmax), s		65.0			25.0	35.0		30.0				
Max Q Clear Time (g_c+I1), s		6.1			4.2	13.3		9.7				
Green Ext Time (p_c), s		3.3			0.1	6.9		2.2				

Intersection Summary	
HCM 7th Control Delay, s/veh	13.7
HCM 7th LOS	B

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.

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Intersection	
Int Delay, s/veh	0.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	961	2	2	1200	10	14
Future Vol, veh/h	961	2	2	1200	10	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	2	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1001	2	2	1250	10	15

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1003	0	1631	502
Stage 1	-	-	-	-	1002	-
Stage 2	-	-	-	-	629	-
Critical Hdwy	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	686	-	92	515
Stage 1	-	-	-	-	316	-
Stage 2	-	-	-	-	493	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	686	-	92	515
Mov Cap-2 Maneuver	-	-	-	-	264	-
Stage 1	-	-	-	-	316	-
Stage 2	-	-	-	-	491	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0.06	15.47
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	369	-	-	6	-
HCM Lane V/C Ratio	0.068	-	-	0.003	-
HCM Control Delay (s/veh)	15.5	-	-	10.3	0
HCM Lane LOS	C	-	-	B	A
HCM 95th %tile Q(veh)	0.2	-	-	0	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	115	582	276	91	673	22	409	82	62	67	61	122
Future Volume (veh/h)	115	582	276	91	673	22	409	82	62	67	61	122
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	124	626	297	98	724	24	440	88	67	72	66	131
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	161	1002	447	129	928	31	567	450	381	125	85	168
Arrive On Green	0.09	0.28	0.28	0.07	0.26	0.26	0.16	0.24	0.24	0.07	0.15	0.15
Sat Flow, veh/h	1781	3554	1585	1781	3510	116	3563	1870	1585	1781	560	1111
Grp Volume(v), veh/h	124	626	297	98	366	382	440	88	67	72	0	197
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1849	1781	1870	1585	1781	0	1670
Q Serve(g_s), s	4.8	10.9	11.8	3.8	13.6	13.6	8.4	2.7	2.4	2.8	0.0	8.1
Cycle Q Clear(g_c), s	4.8	10.9	11.8	3.8	13.6	13.6	8.4	2.7	2.4	2.8	0.0	8.1
Prop In Lane	1.00		1.00	1.00		0.06	1.00		1.00	1.00		0.66
Lane Grp Cap(c), veh/h	161	1002	447	129	470	489	567	450	381	125	0	253
V/C Ratio(X)	0.77	0.62	0.66	0.76	0.78	0.78	0.78	0.20	0.18	0.57	0.00	0.78
Avail Cap(c_a), veh/h	501	1749	780	751	1124	1170	1002	526	446	751	0	705
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	31.6	22.2	22.6	32.4	24.2	24.3	28.7	21.5	21.4	32.0	0.0	29.0
Incr Delay (d2), s/veh	5.8	0.2	0.6	6.7	1.1	1.0	1.7	0.1	0.1	3.1	0.0	2.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	4.3	4.2	1.8	5.5	5.7	3.6	1.1	0.9	1.3	0.0	3.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	37.4	22.5	23.2	39.1	25.3	25.3	30.4	21.6	21.5	35.1	0.0	31.0
LnGrp LOS	D	C	C	D	C	C	C	C	C	D		C
Approach Vol, veh/h		1047			846			595			269	
Approach Delay, s/veh		24.5			26.9			28.1			32.1	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.8	26.9	9.7	24.7	11.1	25.6	16.0	18.4
Change Period (Y+Rc), s	4.7	6.8	4.7	* 7.6	4.7	6.8	4.7	* 7.6
Max Green Setting (Gmax), s	30.0	35.0	30.0	* 20	20.0	45.0	20.0	* 30
Max Q Clear Time (g_c+I1), s	5.8	13.8	4.8	4.7	6.8	15.6	10.4	10.1
Green Ext Time (p_c), s	0.2	3.4	0.1	0.3	0.2	3.2	0.9	0.7

Intersection Summary	
HCM 7th Control Delay, s/veh	26.7
HCM 7th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	573	47	98	708	0	63	0	65	1	0	0
Future Volume (vph)	1	573	47	98	708	0	63	0	65	1	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	6.8	6.8	4.0	6.8			5.6	5.6		5.6	
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95			1.00	1.00		1.00	
Frt	1.00	1.00	0.85	1.00	1.00			1.00	0.85		1.00	
Flt Protected	0.95	1.00	1.00	0.95	1.00			0.95	1.00		0.95	
Satd. Flow (prot)	1770	3539	1583	1770	3539			1770	1583		1770	
Flt Permitted	0.95	1.00	1.00	0.95	1.00			0.76	1.00		1.00	
Satd. Flow (perm)	1770	3539	1583	1770	3539			1410	1583		1863	
Peak-hour factor, PHF	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Adj. Flow (vph)	1	651	53	111	805	0	72	0	74	1	0	0
RTOR Reduction (vph)	0	0	25	0	0	0	0	0	66	0	0	0
Lane Group Flow (vph)	1	651	28	111	805	0	0	72	8	0	1	0
Turn Type	Prot	NA	Perm	Prot	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	1	6		5	2			8			7	
Permitted Phases			6				8		8	7		
Actuated Green, G (s)	1.2	48.2	48.2	9.0	56.0			9.2	9.2		1.6	
Effective Green, g (s)	1.2	48.2	48.2	9.0	56.0			9.2	9.2		1.6	
Actuated g/C Ratio	0.01	0.54	0.54	0.10	0.62			0.10	0.10		0.02	
Clearance Time (s)	4.0	6.8	6.8	4.0	6.8			5.6	5.6		5.6	
Vehicle Extension (s)	2.0	4.0	4.0	2.0	4.0			3.0	3.0		3.0	
Lane Grp Cap (vph)	23	1895	847	177	2202			144	161		33	
v/s Ratio Prot	c0.00	0.18		c0.06	c0.23							
v/s Ratio Perm			0.02					c0.05	0.00		c0.00	
v/c Ratio	0.04	0.34	0.03	0.63	0.37			0.50	0.05		0.03	
Uniform Delay, d1	43.8	11.9	9.9	38.9	8.3			38.2	36.4		43.4	
Progression Factor	1.00	1.00	1.00	1.00	1.00			1.00	1.00		1.00	
Incremental Delay, d2	0.3	0.5	0.1	4.9	0.5			2.7	0.1		0.4	
Delay (s)	44.1	12.4	10.0	43.8	8.8			40.9	36.6		43.8	
Level of Service	D	B	A	D	A			D	D		D	
Approach Delay (s/veh)		12.3			13.0			38.7			43.8	
Approach LOS		B			B			D			D	

Intersection Summary			
HCM 2000 Control Delay (s/veh)	14.9	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.40		
Actuated Cycle Length (s)	90.0	Sum of lost time (s)	22.0
Intersection Capacity Utilization	47.4%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

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MOVEMENT SUMMARY

Site: 101 [I-215 SB/Barton Rd - PM (Site Folder: General)]

Output produced by SIDRA INTERSECTION Version: 9.1.6.228

Existing Conditions Analysis AM
Site Category: (None)
Roundabout

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] ft	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South: La Crosse Ave															
3	L2	All MCs	11	3.0	11	3.0	0.101	7.3	LOS A	0.3	8.3	0.59	0.58	0.59	23.9
8	T1	All MCs	22	3.0	22	3.0	0.101	7.3	LOS A	0.3	8.3	0.59	0.58	0.59	32.4
18	R2	All MCs	27	3.0	27	3.0	0.101	7.3	LOS A	0.3	8.3	0.59	0.58	0.59	29.2
Approach			60	3.0	60	3.0	0.101	7.3	LOS A	0.3	8.3	0.59	0.58	0.59	29.6
East: Barton Rd															
1	L2	All MCs	9	3.0	9	3.0	0.323	5.5	LOS A	1.7	44.3	0.21	0.08	0.21	30.4
6	T1	All MCs	477	3.0	477	3.0	0.323	5.5	LOS A	1.7	44.3	0.21	0.08	0.21	19.4
16	R2	All MCs	358	3.0	358	3.0	0.323	5.5	LOS A	1.7	44.3	0.21	0.08	0.21	30.7
Approach			843	3.0	843	3.0	0.323	5.5	LOS A	1.7	44.3	0.21	0.08	0.21	25.2
North: I-215 SB Ramp															
7	L2	All MCs	366	3.0	366	3.0	0.427	9.2	LOS A	2.3	58.4	0.61	0.54	0.74	22.5
4	T1	All MCs	7	3.0	7	3.0	0.427	9.2	LOS A	2.3	58.4	0.61	0.54	0.74	29.8
14	R2	All MCs	97	3.0	97	3.0	0.120	5.7	LOS A	0.4	11.2	0.50	0.41	0.50	30.2
Approach			470	3.0	470	3.0	0.427	8.5	LOS A	2.3	58.4	0.59	0.51	0.69	23.7
West: Barton Rd															
5	L2	All MCs	25	3.0	25	3.0	0.296	6.8	LOS A	1.3	33.7	0.52	0.38	0.52	29.1
2	T1	All MCs	523	3.0	523	3.0	0.296	6.8	LOS A	1.3	33.7	0.52	0.38	0.52	23.2
12	R2	All MCs	14	3.0	14	3.0	0.296	6.8	LOS A	1.3	33.7	0.52	0.38	0.52	29.8
Approach			562	3.0	562	3.0	0.296	6.8	LOS A	1.3	33.7	0.52	0.38	0.52	23.9
All Vehicles			1935	3.0	1935	3.0	0.427	6.7	LOS A	2.3	58.4	0.40	0.28	0.43	24.6

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: Same as Sign Control.
Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.
LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).
Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).
Roundabout Capacity Model: US HCM 6.
Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	89	754	0	0	690	292	92	7	483	0	0	0
Future Volume (veh/h)	89	754	0	0	690	292	92	7	483	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1870	1870	0	0	1870	1870	1870	1870	1870			
Adj Flow Rate, veh/h	95	802	0	0	734	311	98	0	519			
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94			
Percent Heavy Veh, %	2	2	0	0	2	2	2	2	2			
Cap, veh/h	134	1821	0	0	1177	525	431	0	767			
Arrive On Green	0.08	0.51	0.00	0.00	0.33	0.33	0.24	0.00	0.24			
Sat Flow, veh/h	1781	3647	0	0	3647	1585	1781	0	3170			
Grp Volume(v), veh/h	95	802	0	0	734	311	98	0	519			
Grp Sat Flow(s),veh/h/ln	1781	1777	0	0	1777	1585	1781	0	1585			
Q Serve(g_s), s	2.5	6.7	0.0	0.0	8.2	7.7	2.1	0.0	7.0			
Cycle Q Clear(g_c), s	2.5	6.7	0.0	0.0	8.2	7.7	2.1	0.0	7.0			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	134	1821	0	0	1177	525	431	0	767			
V/C Ratio(X)	0.71	0.44	0.00	0.00	0.62	0.59	0.23	0.00	0.68			
Avail Cap(c_a), veh/h	942	4889	0	0	2632	1174	1131	0	2013			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	21.3	7.2	0.0	0.0	13.3	13.1	14.4	0.0	16.2			
Incr Delay (d2), s/veh	2.5	0.1	0.0	0.0	0.4	0.8	0.3	0.0	1.1			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.0	1.9	0.0	0.0	2.8	2.4	0.8	0.0	2.3			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	23.9	7.4	0.0	0.0	13.7	13.9	14.6	0.0	17.3			
LnGrp LOS	C	A			B	B	B		B			
Approach Vol, veh/h		897			1045			617				
Approach Delay, s/veh		9.1			13.8			16.9				
Approach LOS		A			B			B				
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		30.0			8.6	21.5		17.2				
Change Period (Y+Rc), s		5.8			5.0	5.8		5.8				
Max Green Setting (Gmax), s		65.0			25.0	35.0		30.0				
Max Q Clear Time (g_c+I1), s		8.7			4.5	10.2		9.0				
Green Ext Time (p_c), s		5.5			0.1	5.4		2.4				

Intersection Summary	
HCM 7th Control Delay, s/veh	12.9
HCM 7th LOS	B

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.

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Intersection	
Int Delay, s/veh	0.5

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	1253	4	7	926	16	26
Future Vol, veh/h	1253	4	7	926	16	26
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	2	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1319	4	7	975	17	27

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1323	0	1823	662
Stage 1	-	-	-	-	1321	-
Stage 2	-	-	-	-	502	-
Critical Hdwy	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	518	-	69	405
Stage 1	-	-	-	-	214	-
Stage 2	-	-	-	-	573	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	518	-	67	405
Mov Cap-2 Maneuver	-	-	-	-	194	-
Stage 1	-	-	-	-	214	-
Stage 2	-	-	-	-	562	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0.32	19.86
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	286	-	-	27	-
HCM Lane V/C Ratio	0.154	-	-	0.014	-
HCM Control Delay (s/veh)	19.9	-	-	12.1	0.2
HCM Lane LOS	C	-	-	B	A
HCM 95th %tile Q(veh)	0.5	-	-	0	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	52	820	406	62	568	18	343	21	91	21	14	24
Future Volume (veh/h)	52	820	406	62	568	18	343	21	91	21	14	24
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	54	854	423	65	592	19	357	0	110	22	15	25
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	87	1235	551	97	1241	40	499	0	605	45	48	80
Arrive On Green	0.05	0.35	0.35	0.05	0.35	0.35	0.14	0.00	0.19	0.03	0.08	0.08
Sat Flow, veh/h	1781	3554	1585	1781	3514	113	3563	0	3170	1781	630	1051
Grp Volume(v), veh/h	54	854	423	65	299	312	357	0	110	22	0	40
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1850	1781	0	1585	1781	0	1681
Q Serve(g_s), s	1.9	12.9	14.8	2.2	8.2	8.2	6.0	0.0	1.8	0.8	0.0	1.4
Cycle Q Clear(g_c), s	1.9	12.9	14.8	2.2	8.2	8.2	6.0	0.0	1.8	0.8	0.0	1.4
Prop In Lane	1.00		1.00	1.00		0.06	1.00		1.00	1.00		0.63
Lane Grp Cap(c), veh/h	87	1235	551	97	627	653	499	0	605	45	0	128
V/C Ratio(X)	0.62	0.69	0.77	0.67	0.48	0.48	0.72	0.00	0.18	0.49	0.00	0.31
Avail Cap(c_a), veh/h	572	1996	890	858	1283	1336	1144	0	1018	858	0	809
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	29.1	17.5	18.1	28.9	15.7	15.7	25.6	0.0	21.1	30.0	0.0	27.2
Incr Delay (d2), s/veh	5.3	0.3	0.9	5.9	0.2	0.2	1.4	0.0	0.1	5.9	0.0	0.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	4.8	5.0	1.1	3.0	3.2	2.5	0.0	0.6	0.4	0.0	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	34.4	17.7	18.9	34.8	15.9	15.9	27.0	0.0	21.2	35.8	0.0	27.7
LnGrp LOS	C	B	B	C	B	B	C		C	D		C
Approach Vol, veh/h		1331			676			467			62	
Approach Delay, s/veh		18.8			17.7			25.7			30.6	
Approach LOS		B			B			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.1	28.5	6.3	19.5	7.7	28.8	13.4	12.3
Change Period (Y+Rc), s	4.7	6.8	4.7	* 7.6	4.7	6.8	4.7	* 7.6
Max Green Setting (Gmax), s	30.0	35.0	30.0	* 20	20.0	45.0	20.0	* 30
Max Q Clear Time (g_c+I1), s	4.2	16.8	2.8	3.8	3.9	10.2	8.0	3.4
Green Ext Time (p_c), s	0.1	4.9	0.0	0.2	0.1	2.5	0.8	0.1

Intersection Summary	
HCM 7th Control Delay, s/veh	20.1
HCM 7th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	2	799	38	106	640	1	55	0	115	1	0	1
Future Volume (vph)	2	799	38	106	640	1	55	0	115	1	0	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	6.8	6.8	4.0	6.8			5.6	5.6		5.6	
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95			1.00	1.00		1.00	
Frt	1.00	1.00	0.85	1.00	1.00			1.00	0.85		0.93	
Flt Protected	0.95	1.00	1.00	0.95	1.00			0.95	1.00		0.98	
Satd. Flow (prot)	1770	3539	1583	1770	3538			1770	1583		1695	
Flt Permitted	0.95	1.00	1.00	0.95	1.00			0.76	1.00		1.00	
Satd. Flow (perm)	1770	3539	1583	1770	3538			1409	1583		1737	
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	2	832	40	110	667	1	57	0	120	1	0	1
RTOR Reduction (vph)	0	0	19	0	0	0	0	0	106	0	2	0
Lane Group Flow (vph)	2	832	21	110	668	0	0	57	14	0	0	0
Turn Type	Prot	NA	Perm	Prot	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	1	6		5	2			8			7	
Permitted Phases			6				8		8	7		
Actuated Green, G (s)	1.8	46.8	46.8	8.9	53.9			10.7	10.7		1.6	
Effective Green, g (s)	1.8	46.8	46.8	8.9	53.9			10.7	10.7		1.6	
Actuated g/C Ratio	0.02	0.52	0.52	0.10	0.60			0.12	0.12		0.02	
Clearance Time (s)	4.0	6.8	6.8	4.0	6.8			5.6	5.6		5.6	
Vehicle Extension (s)	2.0	4.0	4.0	2.0	4.0			3.0	3.0		3.0	
Lane Grp Cap (vph)	35	1840	823	175	2118			167	188		30	
v/s Ratio Prot	c0.00	c0.24		c0.06	0.19							
v/s Ratio Perm			0.01					c0.04	0.01		c0.00	
v/c Ratio	0.06	0.45	0.03	0.63	0.32			0.34	0.08		0.00	
Uniform Delay, d1	43.3	13.6	10.5	39.0	8.9			36.4	35.3		43.4	
Progression Factor	1.00	1.00	1.00	1.00	1.00			1.00	1.00		1.00	
Incremental Delay, d2	0.2	0.2	0.0	5.0	0.4			1.2	0.2		0.0	
Delay (s)	43.5	13.8	10.5	44.0	9.3			37.6	35.4		43.4	
Level of Service	D	B	B	D	A			D	D		D	
Approach Delay (s/veh)		13.7			14.2			36.1			43.4	
Approach LOS		B			B			D			D	

Intersection Summary			
HCM 2000 Control Delay (s/veh)	16.1	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.44		
Actuated Cycle Length (s)	90.0	Sum of lost time (s)	22.0
Intersection Capacity Utilization	52.9%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

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MOVEMENT SUMMARY

Site: 101 [I-215 SB/Barton Rd - Future AM (Site Folder: General)]

Output produced by SIDRA INTERSECTION Version: 9.1.4.221

Existing Conditions Analysis AM
Site Category: NA
Roundabout

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] ft	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South: La Crosse Ave															
3	L2	All MCs	5	3.0	5	3.0	0.023	5.0	LOS A	0.1	1.9	0.50	0.40	0.50	24.6
8	T1	All MCs	3	3.0	3	3.0	0.023	5.0	LOS A	0.1	1.9	0.50	0.40	0.50	33.2
18	R2	All MCs	9	3.0	9	3.0	0.023	5.0	LOS A	0.1	1.9	0.50	0.40	0.50	30.1
Approach			17	3.0	17	3.0	0.023	5.0	LOS A	0.1	1.9	0.50	0.40	0.50	29.0
East: Barton Rd															
1	L2	All MCs	16	3.0	16	3.0	0.353	5.6	LOS A	2.0	50.9	0.18	0.05	0.18	30.3
6	T1	All MCs	452	3.0	452	3.0	0.353	5.6	LOS A	2.0	50.9	0.18	0.05	0.18	19.4
16	R2	All MCs	536	3.0	536	3.0	0.403	6.1	LOS A	2.5	62.9	0.19	0.06	0.19	30.2
Approach			1004	3.0	1004	3.0	0.403	5.9	LOS A	2.5	62.9	0.19	0.06	0.19	26.2
North: I-215 SB Ramp															
7	L2	All MCs	200	3.0	200	3.0	0.243	6.5	LOS A	0.9	24.3	0.52	0.40	0.52	23.5
4	T1	All MCs	16	3.0	16	3.0	0.243	6.5	LOS A	0.9	24.3	0.52	0.40	0.52	31.0
14	R2	All MCs	60	3.0	60	3.0	0.073	5.1	LOS A	0.3	6.6	0.48	0.38	0.48	30.6
Approach			276	3.0	276	3.0	0.243	6.2	LOS A	0.9	24.3	0.51	0.40	0.51	25.1
West: Barton Rd															
5	L2	All MCs	30	3.0	30	3.0	0.211	5.2	LOS A	0.9	23.5	0.39	0.24	0.39	29.9
2	T1	All MCs	418	3.0	418	3.0	0.211	5.2	LOS A	0.9	23.5	0.39	0.24	0.39	24.5
12	R2	All MCs	15	3.0	15	3.0	0.211	5.2	LOS A	0.9	23.5	0.39	0.24	0.39	30.9
Approach			464	3.0	464	3.0	0.211	5.2	LOS A	0.9	23.5	0.39	0.24	0.39	25.4
All Vehicles			1762	3.0	1762	3.0	0.403	5.7	LOS A	2.5	62.9	0.29	0.16	0.29	25.9

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: Same as Sign Control.
Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.
LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).
Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).
Roundabout Capacity Model: US HCM 6.
Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	72	502	0	0	896	337	33	9	483	0	0	0
Future Volume (veh/h)	72	502	0	0	896	337	33	9	483	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1870	1870	0	0	1870	1870	1870	1870	1870			
Adj Flow Rate, veh/h	77	534	0	0	953	359	35	0	521			
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94			
Percent Heavy Veh, %	2	2	0	0	2	2	2	2	2			
Cap, veh/h	114	1958	0	0	1396	623	411	0	731			
Arrive On Green	0.06	0.55	0.00	0.00	0.39	0.39	0.23	0.00	0.23			
Sat Flow, veh/h	1781	3647	0	0	3647	1585	1781	0	3170			
Grp Volume(v), veh/h	77	534	0	0	953	359	35	0	521			
Grp Sat Flow(s),veh/h/ln	1781	1777	0	0	1777	1585	1781	0	1585			
Q Serve(g_s), s	2.2	4.2	0.0	0.0	11.8	9.4	0.8	0.0	8.0			
Cycle Q Clear(g_c), s	2.2	4.2	0.0	0.0	11.8	9.4	0.8	0.0	8.0			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	114	1958	0	0	1396	623	411	0	731			
V/C Ratio(X)	0.68	0.27	0.00	0.00	0.68	0.58	0.09	0.00	0.71			
Avail Cap(c_a), veh/h	839	4351	0	0	2343	1045	1007	0	1791			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	24.3	6.3	0.0	0.0	13.4	12.7	16.0	0.0	18.8			
Incr Delay (d2), s/veh	2.6	0.1	0.0	0.0	0.4	0.6	0.1	0.0	1.3			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.0	1.2	0.0	0.0	4.0	2.9	0.3	0.0	2.8			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	26.9	6.4	0.0	0.0	13.8	13.3	16.1	0.0	20.1			
LnGrp LOS	C	A			B	B	B		C			
Approach Vol, veh/h		611			1312			556				
Approach Delay, s/veh		8.9			13.7			19.9				
Approach LOS		A			B			B				
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		35.0			8.4	26.7		18.0				
Change Period (Y+Rc), s		5.8			5.0	5.8		5.8				
Max Green Setting (Gmax), s		65.0			25.0	35.0		30.0				
Max Q Clear Time (g_c+I1), s		6.2			4.2	13.8		10.0				
Green Ext Time (p_c), s		3.3			0.1	7.0		2.2				

Intersection Summary	
HCM 7th Control Delay, s/veh	13.9
HCM 7th LOS	B

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.

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Intersection	
Int Delay, s/veh	0.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	980	2	2	1224	10	14
Future Vol, veh/h	980	2	2	1224	10	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	2	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1021	2	2	1275	10	15

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1023	0	1664	511
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	642	-
Critical Hdwy	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	674	-	88	507
Stage 1	-	-	-	-	308	-
Stage 2	-	-	-	-	486	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	674	-	87	507
Mov Cap-2 Maneuver	-	-	-	-	258	-
Stage 1	-	-	-	-	308	-
Stage 2	-	-	-	-	484	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0.07	15.7
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	361	-	-	6	-
HCM Lane V/C Ratio	0.069	-	-	0.003	-
HCM Control Delay (s/veh)	15.7	-	-	10.4	0
HCM Lane LOS	C	-	-	B	A
HCM 95th %tile Q(veh)	0.2	-	-	0	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	117	594	282	93	686	22	417	84	63	68	62	124
Future Volume (veh/h)	117	594	282	93	686	22	417	84	63	68	62	124
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	126	639	303	100	738	24	448	90	68	73	67	133
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	163	1013	452	131	939	31	573	458	388	123	86	170
Arrive On Green	0.09	0.28	0.28	0.07	0.27	0.27	0.16	0.24	0.24	0.07	0.15	0.15
Sat Flow, veh/h	1781	3554	1585	1781	3512	114	3563	1870	1585	1781	560	1111
Grp Volume(v), veh/h	126	639	303	100	373	389	448	90	68	73	0	200
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1850	1781	1870	1585	1781	0	1670
Q Serve(g_s), s	5.0	11.4	12.3	4.0	14.1	14.2	8.8	2.8	2.5	2.9	0.0	8.4
Cycle Q Clear(g_c), s	5.0	11.4	12.3	4.0	14.1	14.2	8.8	2.8	2.5	2.9	0.0	8.4
Prop In Lane	1.00		1.00	1.00		0.06	1.00		1.00	1.00		0.67
Lane Grp Cap(c), veh/h	163	1013	452	131	475	495	573	458	388	123	0	255
V/C Ratio(X)	0.77	0.63	0.67	0.76	0.79	0.79	0.78	0.20	0.18	0.59	0.00	0.78
Avail Cap(c_a), veh/h	491	1713	764	736	1101	1146	981	515	437	736	0	690
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	32.3	22.6	23.0	33.0	24.7	24.7	29.3	21.8	21.6	32.8	0.0	29.6
Incr Delay (d2), s/veh	5.8	0.2	0.6	6.6	1.1	1.1	1.8	0.1	0.1	3.4	0.0	2.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	4.5	4.4	1.9	5.8	6.0	3.7	1.2	0.9	1.3	0.0	3.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	38.0	22.9	23.6	39.6	25.8	25.7	31.0	21.8	21.7	36.2	0.0	31.6
LnGrp LOS	D	C	C	D	C	C	C	C	C	D		C
Approach Vol, veh/h		1068			862			606			273	
Approach Delay, s/veh		24.9			27.4			28.6			32.8	
Approach LOS		C			C			C			C	

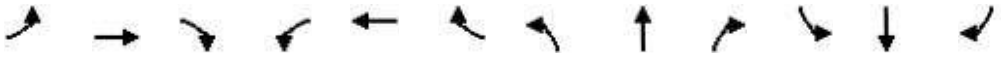
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.1	27.5	9.7	25.4	11.3	26.2	16.4	18.7
Change Period (Y+Rc), s	4.7	6.8	4.7	* 7.6	4.7	6.8	4.7	* 7.6
Max Green Setting (Gmax), s	30.0	35.0	30.0	* 20	20.0	45.0	20.0	* 30
Max Q Clear Time (g_c+I1), s	6.0	14.3	4.9	4.8	7.0	16.2	10.8	10.4
Green Ext Time (p_c), s	0.2	3.5	0.1	0.3	0.2	3.3	0.9	0.7

Intersection Summary	
HCM 7th Control Delay, s/veh	27.2
HCM 7th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	584	48	100	722	0	64	0	66	1	0	0
Future Volume (vph)	1	584	48	100	722	0	64	0	66	1	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	6.8	6.8	4.0	6.8			5.6	5.6		5.6	
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95			1.00	1.00		1.00	
Frt	1.00	1.00	0.85	1.00	1.00			1.00	0.85		1.00	
Flt Protected	0.95	1.00	1.00	0.95	1.00			0.95	1.00		0.95	
Satd. Flow (prot)	1770	3539	1583	1770	3539			1770	1583		1770	
Flt Permitted	0.95	1.00	1.00	0.95	1.00			0.76	1.00		1.00	
Satd. Flow (perm)	1770	3539	1583	1770	3539			1410	1583		1863	
Peak-hour factor, PHF	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Adj. Flow (vph)	1	664	55	114	820	0	73	0	75	1	0	0
RTOR Reduction (vph)	0	0	26	0	0	0	0	0	67	0	0	0
Lane Group Flow (vph)	1	664	29	114	820	0	0	73	8	0	1	0
Turn Type	Prot	NA	Perm	Prot	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	1	6		5	2			8			7	
Permitted Phases			6				8		8	7		
Actuated Green, G (s)	1.2	48.1	48.1	9.1	56.0			9.2	9.2		1.6	
Effective Green, g (s)	1.2	48.1	48.1	9.1	56.0			9.2	9.2		1.6	
Actuated g/C Ratio	0.01	0.53	0.53	0.10	0.62			0.10	0.10		0.02	
Clearance Time (s)	4.0	6.8	6.8	4.0	6.8			5.6	5.6		5.6	
Vehicle Extension (s)	2.0	4.0	4.0	2.0	4.0			3.0	3.0		3.0	
Lane Grp Cap (vph)	23	1891	846	178	2202			144	161		33	
v/s Ratio Prot	c0.00	0.19		c0.06	c0.23							
v/s Ratio Perm			0.02					c0.05	0.00		c0.00	
v/c Ratio	0.04	0.35	0.03	0.64	0.37			0.51	0.05		0.03	
Uniform Delay, d1	43.8	12.0	9.9	38.9	8.4			38.3	36.4		43.4	
Progression Factor	1.00	1.00	1.00	1.00	1.00			1.00	1.00		1.00	
Incremental Delay, d2	0.3	0.5	0.1	5.8	0.5			2.8	0.1		0.4	
Delay (s)	44.1	12.5	10.0	44.7	8.8			41.0	36.6		43.8	
Level of Service	D	B	B	D	A			D	D		D	
Approach Delay (s/veh)		12.4			13.2			38.8			43.8	
Approach LOS		B			B			D			D	

Intersection Summary			
HCM 2000 Control Delay (s/veh)	15.0	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.40		
Actuated Cycle Length (s)	90.0	Sum of lost time (s)	22.0
Intersection Capacity Utilization	47.8%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

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MOVEMENT SUMMARY

Site: 101 [I-215 SB/Barton Rd - Future PM (Site Folder: General)]

Output produced by SIDRA INTERSECTION Version: 9.1.4.221

Existing Conditions Analysis AM
Site Category: (None)
Roundabout

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] ft	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South: La Crosse Ave															
3	L2	All MCs	11	3.0	11	3.0	0.105	7.5	LOS A	0.3	8.6	0.60	0.59	0.60	23.8
8	T1	All MCs	22	3.0	22	3.0	0.105	7.5	LOS A	0.3	8.6	0.60	0.59	0.60	32.4
18	R2	All MCs	28	3.0	28	3.0	0.105	7.5	LOS A	0.3	8.6	0.60	0.59	0.60	29.1
Approach			61	3.0	61	3.0	0.105	7.5	LOS A	0.3	8.6	0.60	0.59	0.60	29.5
East: Barton Rd															
1	L2	All MCs	9	3.0	9	3.0	0.330	5.6	LOS A	1.8	45.6	0.21	0.08	0.21	30.3
6	T1	All MCs	487	3.0	487	3.0	0.330	5.6	LOS A	1.8	45.6	0.21	0.08	0.21	19.3
16	R2	All MCs	365	3.0	365	3.0	0.330	5.6	LOS A	1.8	45.6	0.21	0.08	0.21	30.6
Approach			861	3.0	861	3.0	0.330	5.6	LOS A	1.8	45.6	0.21	0.08	0.21	25.2
North: I-215 SB Ramp															
7	L2	All MCs	374	3.0	374	3.0	0.440	9.5	LOS A	2.4	62.3	0.62	0.56	0.78	22.4
4	T1	All MCs	7	3.0	7	3.0	0.440	9.5	LOS A	2.4	62.3	0.62	0.56	0.78	29.7
14	R2	All MCs	99	3.0	99	3.0	0.124	5.8	LOS A	0.5	11.5	0.51	0.41	0.51	30.2
Approach			479	3.0	479	3.0	0.440	8.7	LOS A	2.4	62.3	0.60	0.53	0.73	23.6
West: Barton Rd															
5	L2	All MCs	25	3.0	25	3.0	0.304	7.0	LOS A	1.4	34.7	0.53	0.39	0.53	29.0
2	T1	All MCs	534	3.0	534	3.0	0.304	7.0	LOS A	1.4	34.7	0.53	0.39	0.53	23.1
12	R2	All MCs	14	3.0	14	3.0	0.304	7.0	LOS A	1.4	34.7	0.53	0.39	0.53	29.7
Approach			573	3.0	573	3.0	0.304	7.0	LOS A	1.4	34.7	0.53	0.39	0.53	23.8
All Vehicles			1974	3.0	1974	3.0	0.440	6.8	LOS A	2.4	62.3	0.41	0.29	0.44	24.5

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: Same as Sign Control.
Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.
LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).
Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).
Roundabout Capacity Model: US HCM 6.
Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	91	769	0	0	704	298	94	7	493	0	0	0
Future Volume (veh/h)	91	769	0	0	704	298	94	7	493	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1870	1870	0	0	1870	1870	1870	1870	1870			
Adj Flow Rate, veh/h	97	818	0	0	749	317	100	0	529			
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94			
Percent Heavy Veh, %	2	2	0	0	2	2	2	2	2			
Cap, veh/h	135	1828	0	0	1190	531	435	0	775			
Arrive On Green	0.08	0.51	0.00	0.00	0.33	0.33	0.24	0.00	0.24			
Sat Flow, veh/h	1781	3647	0	0	3647	1585	1781	0	3170			
Grp Volume(v), veh/h	97	818	0	0	749	317	100	0	529			
Grp Sat Flow(s),veh/h/ln	1781	1777	0	0	1777	1585	1781	0	1585			
Q Serve(g_s), s	2.6	7.0	0.0	0.0	8.5	8.0	2.2	0.0	7.3			
Cycle Q Clear(g_c), s	2.6	7.0	0.0	0.0	8.5	8.0	2.2	0.0	7.3			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	135	1828	0	0	1190	531	435	0	775			
V/C Ratio(X)	0.72	0.45	0.00	0.00	0.63	0.60	0.23	0.00	0.68			
Avail Cap(c_a), veh/h	927	4806	0	0	2588	1154	1112	0	1979			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	21.7	7.4	0.0	0.0	13.5	13.3	14.5	0.0	16.5			
Incr Delay (d2), s/veh	2.7	0.1	0.0	0.0	0.4	0.8	0.3	0.0	1.1			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.1	1.9	0.0	0.0	2.9	2.5	0.8	0.0	2.4			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	24.4	7.5	0.0	0.0	13.9	14.1	14.8	0.0	17.5			
LnGrp LOS	C	A			B	B	B		B			
Approach Vol, veh/h		915			1066			629				
Approach Delay, s/veh		9.3			13.9			17.1				
Approach LOS		A			B			B				
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		30.5			8.6	21.9		17.5				
Change Period (Y+Rc), s		5.8			5.0	5.8		5.8				
Max Green Setting (Gmax), s		65.0			25.0	35.0		30.0				
Max Q Clear Time (g_c+I1), s		9.0			4.6	10.5		9.3				
Green Ext Time (p_c), s		5.7			0.1	5.6		2.5				

Intersection Summary	
HCM 7th Control Delay, s/veh	13.1
HCM 7th LOS	B

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.

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Intersection	
Int Delay, s/veh	0.5

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	1278	4	7	945	16	27
Future Vol, veh/h	1278	4	7	945	16	27
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	2	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1345	4	7	995	17	28

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1349	0	1859	675
Stage 1	-	-	-	-	1347	-
Stage 2	-	-	-	-	512	-
Critical Hdwy	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	506	-	65	397
Stage 1	-	-	-	-	207	-
Stage 2	-	-	-	-	566	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	506	-	64	397
Mov Cap-2 Maneuver	-	-	-	-	188	-
Stage 1	-	-	-	-	207	-
Stage 2	-	-	-	-	555	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0.33	20.28
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	281	-	-	26	-
HCM Lane V/C Ratio	0.161	-	-	0.015	-
HCM Control Delay (s/veh)	20.3	-	-	12.2	0.2
HCM Lane LOS	C	-	-	B	A
HCM 95th %tile Q(veh)	0.6	-	-	0	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	53	836	414	63	579	18	350	21	93	21	14	24
Future Volume (veh/h)	53	836	414	63	579	18	350	21	93	21	14	24
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	55	871	431	66	603	19	365	0	112	22	15	25
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	87	1250	558	97	1256	40	506	0	608	45	48	79
Arrive On Green	0.05	0.35	0.35	0.05	0.36	0.36	0.14	0.00	0.19	0.03	0.08	0.08
Sat Flow, veh/h	1781	3554	1585	1781	3517	111	3563	0	3170	1781	630	1051
Grp Volume(v), veh/h	55	871	431	66	304	318	365	0	112	22	0	40
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1850	1781	0	1585	1781	0	1681
Q Serve(g_s), s	1.9	13.3	15.3	2.3	8.4	8.4	6.2	0.0	1.9	0.8	0.0	1.4
Cycle Q Clear(g_c), s	1.9	13.3	15.3	2.3	8.4	8.4	6.2	0.0	1.9	0.8	0.0	1.4
Prop In Lane	1.00		1.00	1.00		0.06	1.00		1.00	1.00		0.63
Lane Grp Cap(c), veh/h	87	1250	558	97	635	661	506	0	608	45	0	127
V/C Ratio(X)	0.63	0.70	0.77	0.68	0.48	0.48	0.72	0.00	0.18	0.49	0.00	0.32
Avail Cap(c_a), veh/h	564	1968	878	846	1265	1318	1127	0	1003	846	0	798
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	29.5	17.6	18.2	29.3	15.8	15.8	25.9	0.0	21.4	30.4	0.0	27.7
Incr Delay (d2), s/veh	5.5	0.3	0.9	6.2	0.2	0.2	1.5	0.0	0.1	5.9	0.0	0.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	4.9	5.2	1.1	3.1	3.3	2.6	0.0	0.7	0.4	0.0	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	34.9	17.9	19.1	35.5	16.0	16.0	27.4	0.0	21.4	36.3	0.0	28.2
LnGrp LOS	C	B	B	D	B	B	C		C	D		C
Approach Vol, veh/h		1357			688			477			62	
Approach Delay, s/veh		18.9			17.8			26.0			31.1	
Approach LOS		B			B			C			C	

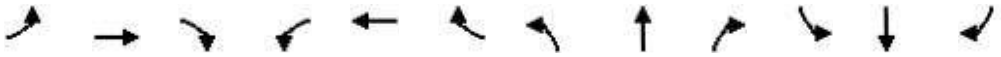
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.1	29.0	6.3	19.7	7.8	29.4	13.7	12.4
Change Period (Y+Rc), s	4.7	6.8	4.7	* 7.6	4.7	6.8	4.7	* 7.6
Max Green Setting (Gmax), s	30.0	35.0	30.0	* 20	20.0	45.0	20.0	* 30
Max Q Clear Time (g_c+I1), s	4.3	17.3	2.8	3.9	3.9	10.4	8.2	3.4
Green Ext Time (p_c), s	0.1	4.9	0.0	0.2	0.1	2.6	0.8	0.1

Intersection Summary	
HCM 7th Control Delay, s/veh	20.2
HCM 7th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	2	815	39	108	653	1	56	0	117	1	0	1
Future Volume (vph)	2	815	39	108	653	1	56	0	117	1	0	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	6.8	6.8	4.0	6.8			5.6	5.6		5.6	
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95			1.00	1.00		1.00	
Frt	1.00	1.00	0.85	1.00	1.00			1.00	0.85		0.93	
Flt Protected	0.95	1.00	1.00	0.95	1.00			0.95	1.00		0.98	
Satd. Flow (prot)	1770	3539	1583	1770	3538			1770	1583		1695	
Flt Permitted	0.95	1.00	1.00	0.95	1.00			0.76	1.00		1.00	
Satd. Flow (perm)	1770	3539	1583	1770	3538			1409	1583		1737	
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	2	849	41	112	680	1	58	0	122	1	0	1
RTOR Reduction (vph)	0	0	20	0	0	0	0	0	107	0	2	0
Lane Group Flow (vph)	2	849	21	113	681	0	0	58	15	0	0	0
Turn Type	Prot	NA	Perm	Prot	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	1	6		5	2			8			7	
Permitted Phases			6				8		8	7		
Actuated Green, G (s)	1.8	46.7	46.7	9.0	53.9			10.7	10.7		1.6	
Effective Green, g (s)	1.8	46.7	46.7	9.0	53.9			10.7	10.7		1.6	
Actuated g/C Ratio	0.02	0.52	0.52	0.10	0.60			0.12	0.12		0.02	
Clearance Time (s)	4.0	6.8	6.8	4.0	6.8			5.6	5.6		5.6	
Vehicle Extension (s)	2.0	4.0	4.0	2.0	4.0			3.0	3.0		3.0	
Lane Grp Cap (vph)	35	1836	821	177	2118			167	188		30	
v/s Ratio Prot	c0.00	c0.24		c0.06	0.19							
v/s Ratio Perm			0.01					c0.04	0.01		c0.00	
v/c Ratio	0.06	0.46	0.03	0.64	0.32			0.35	0.08		0.00	
Uniform Delay, d1	43.3	13.7	10.6	38.9	9.0			36.4	35.3		43.4	
Progression Factor	1.00	1.00	1.00	1.00	1.00			1.00	1.00		1.00	
Incremental Delay, d2	0.2	0.3	0.0	5.5	0.4			1.3	0.2		0.0	
Delay (s)	43.5	14.0	10.6	44.4	9.4			37.7	35.4		43.4	
Level of Service	D	B	B	D	A			D	D		D	
Approach Delay (s/veh)		13.9			14.4			36.2			43.4	
Approach LOS		B			B			D			D	

Intersection Summary			
HCM 2000 Control Delay (s/veh)	16.3	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.45		
Actuated Cycle Length (s)	90.0	Sum of lost time (s)	22.0
Intersection Capacity Utilization	53.4%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

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MOVEMENT SUMMARY

Site: 101 [I-215 SB/Barton Rd - Proj AM (Site Folder: General)]

Output produced by SIDRA INTERSECTION Version: 9.1.4.221

Existing Conditions Analysis AM
Site Category: NA
Roundabout

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] ft	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South: La Crosse Ave															
3	L2	All MCs	5	3.0	5	3.0	0.023	5.0	LOS A	0.1	1.9	0.51	0.41	0.51	24.6
8	T1	All MCs	3	3.0	3	3.0	0.023	5.0	LOS A	0.1	1.9	0.51	0.41	0.51	33.1
18	R2	All MCs	9	3.0	9	3.0	0.023	5.0	LOS A	0.1	1.9	0.51	0.41	0.51	30.1
Approach			17	3.0	17	3.0	0.023	5.0	LOS A	0.1	1.9	0.51	0.41	0.51	29.0
East: Barton Rd															
1	L2	All MCs	16	3.0	16	3.0	0.355	5.6	LOS A	2.0	51.5	0.18	0.05	0.18	30.3
6	T1	All MCs	455	3.0	455	3.0	0.355	5.6	LOS A	2.0	51.5	0.18	0.05	0.18	19.4
16	R2	All MCs	545	3.0	545	3.0	0.410	6.2	LOS A	2.5	64.6	0.19	0.06	0.19	30.2
Approach			1016	3.0	1016	3.0	0.410	5.9	LOS A	2.5	64.6	0.19	0.06	0.19	26.2
North: I-215 SB Ramp															
7	L2	All MCs	209	3.0	209	3.0	0.253	6.7	LOS A	1.0	25.5	0.52	0.41	0.52	23.4
4	T1	All MCs	16	3.0	16	3.0	0.253	6.7	LOS A	1.0	25.5	0.52	0.41	0.52	30.9
14	R2	All MCs	60	3.0	60	3.0	0.073	5.1	LOS A	0.3	6.6	0.48	0.38	0.48	30.6
Approach			285	3.0	285	3.0	0.253	6.3	LOS A	1.0	25.5	0.51	0.40	0.51	25.0
West: Barton Rd															
5	L2	All MCs	30	3.0	30	3.0	0.214	5.2	LOS A	0.9	23.9	0.40	0.24	0.40	29.9
2	T1	All MCs	422	3.0	422	3.0	0.214	5.2	LOS A	0.9	23.9	0.40	0.24	0.40	24.4
12	R2	All MCs	15	3.0	15	3.0	0.214	5.2	LOS A	0.9	23.9	0.40	0.24	0.40	30.8
Approach			467	3.0	467	3.0	0.214	5.2	LOS A	0.9	23.9	0.40	0.24	0.40	25.4
All Vehicles			1786	3.0	1786	3.0	0.410	5.8	LOS A	2.5	64.6	0.30	0.16	0.30	25.8

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: Same as Sign Control.
Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.
LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).
Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).
Roundabout Capacity Model: US HCM 6.
Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	72	513	0	0	907	345	33	9	491	0	0	0
Future Volume (veh/h)	72	513	0	0	907	345	33	9	491	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1870	1870	0	0	1870	1870	1870	1870	1870			
Adj Flow Rate, veh/h	77	546	0	0	965	367	35	0	529			
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94			
Percent Heavy Veh, %	2	2	0	0	2	2	2	2	2			
Cap, veh/h	113	1961	0	0	1404	626	414	0	737			
Arrive On Green	0.06	0.55	0.00	0.00	0.40	0.40	0.23	0.00	0.23			
Sat Flow, veh/h	1781	3647	0	0	3647	1585	1781	0	3170			
Grp Volume(v), veh/h	77	546	0	0	965	367	35	0	529			
Grp Sat Flow(s),veh/h/ln	1781	1777	0	0	1777	1585	1781	0	1585			
Q Serve(g_s), s	2.3	4.4	0.0	0.0	12.1	9.8	0.8	0.0	8.3			
Cycle Q Clear(g_c), s	2.3	4.4	0.0	0.0	12.1	9.8	0.8	0.0	8.3			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	113	1961	0	0	1404	626	414	0	737			
V/C Ratio(X)	0.68	0.28	0.00	0.00	0.69	0.59	0.08	0.00	0.72			
Avail Cap(c_a), veh/h	828	4296	0	0	2313	1032	994	0	1769			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	24.6	6.4	0.0	0.0	13.5	12.8	16.2	0.0	19.0			
Incr Delay (d2), s/veh	2.7	0.1	0.0	0.0	0.4	0.6	0.1	0.0	1.3			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.0	1.3	0.0	0.0	4.2	3.0	0.3	0.0	2.9			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	27.3	6.4	0.0	0.0	14.0	13.4	16.2	0.0	20.3			
LnGrp LOS	C	A			B	B	B		C			
Approach Vol, veh/h		623			1332			564				
Approach Delay, s/veh		9.0			13.8			20.1				
Approach LOS		A			B			C				
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		35.5			8.4	27.0		18.3				
Change Period (Y+Rc), s		5.8			5.0	5.8		5.8				
Max Green Setting (Gmax), s		65.0			25.0	35.0		30.0				
Max Q Clear Time (g_c+I1), s		6.4			4.3	14.1		10.3				
Green Ext Time (p_c), s		3.4			0.1	7.1		2.2				

Intersection Summary	
HCM 7th Control Delay, s/veh	14.0
HCM 7th LOS	B

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.

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Intersection	
Int Delay, s/veh	1.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	961	40	29	1211	42	47
Future Vol, veh/h	961	40	29	1211	42	47
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	2	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1001	42	30	1261	44	49

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1043	0	1713	521
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	691	-
Critical Hdwy	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	663	-	81	500
Stage 1	-	-	-	-	308	-
Stage 2	-	-	-	-	459	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	663	-	76	500
Mov Cap-2 Maneuver	-	-	-	-	246	-
Stage 1	-	-	-	-	308	-
Stage 2	-	-	-	-	426	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0.95	19.72
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	336	-	-	84	-
HCM Lane V/C Ratio	0.276	-	-	0.046	-
HCM Control Delay (s/veh)	19.7	-	-	10.7	0.7
HCM Lane LOS	C	-	-	B	A
HCM 95th %tile Q(veh)	1.1	-	-	0.1	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	118	603	285	93	696	22	421	84	63	68	62	125
Future Volume (veh/h)	118	603	285	93	696	22	421	84	63	68	62	125
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	127	648	306	100	748	24	453	90	68	73	67	134
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	164	1023	456	131	948	30	576	460	390	122	85	170
Arrive On Green	0.09	0.29	0.29	0.07	0.27	0.27	0.16	0.25	0.25	0.07	0.15	0.15
Sat Flow, veh/h	1781	3554	1585	1781	3514	113	3563	1870	1585	1781	557	1113
Grp Volume(v), veh/h	127	648	306	100	378	394	453	90	68	73	0	201
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1850	1781	1870	1585	1781	0	1670
Q Serve(g_s), s	5.1	11.7	12.5	4.1	14.5	14.5	9.0	2.8	2.5	2.9	0.0	8.5
Cycle Q Clear(g_c), s	5.1	11.7	12.5	4.1	14.5	14.5	9.0	2.8	2.5	2.9	0.0	8.5
Prop In Lane	1.00		1.00	1.00		0.06	1.00		1.00	1.00		0.67
Lane Grp Cap(c), veh/h	164	1023	456	131	479	499	576	460	390	122	0	256
V/C Ratio(X)	0.78	0.63	0.67	0.76	0.79	0.79	0.79	0.20	0.17	0.60	0.00	0.79
Avail Cap(c_a), veh/h	484	1691	754	727	1087	1132	969	509	431	727	0	681
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	32.7	22.8	23.1	33.4	24.9	24.9	29.6	22.0	21.8	33.3	0.0	30.0
Incr Delay (d2), s/veh	5.8	0.2	0.6	6.6	1.1	1.1	1.8	0.1	0.1	3.4	0.0	2.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	4.7	4.5	1.9	5.9	6.2	3.8	1.2	0.9	1.3	0.0	3.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	38.4	23.0	23.7	40.1	26.0	26.0	31.4	22.0	21.9	36.7	0.0	32.0
LnGrp LOS	D	C	C	D	C	C	C	C	C	D		C
Approach Vol, veh/h		1081			872			611			274	
Approach Delay, s/veh		25.0			27.6			29.0			33.3	
Approach LOS		C			C			C			C	

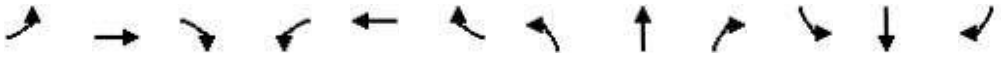
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.1	28.0	9.7	25.7	11.5	26.6	16.6	18.9
Change Period (Y+Rc), s	4.7	6.8	4.7	* 7.6	4.7	6.8	4.7	* 7.6
Max Green Setting (Gmax), s	30.0	35.0	30.0	* 20	20.0	45.0	20.0	* 30
Max Q Clear Time (g_c+I1), s	6.1	14.5	4.9	4.8	7.1	16.5	11.0	10.5
Green Ext Time (p_c), s	0.2	3.5	0.1	0.3	0.2	3.3	0.9	0.7

Intersection Summary	
HCM 7th Control Delay, s/veh	27.5
HCM 7th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	594	48	100	731	0	64	0	66	1	0	0
Future Volume (vph)	1	594	48	100	731	0	64	0	66	1	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	6.8	6.8	4.0	6.8			5.6	5.6		5.6	
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95			1.00	1.00		1.00	
Frt	1.00	1.00	0.85	1.00	1.00			1.00	0.85		1.00	
Flt Protected	0.95	1.00	1.00	0.95	1.00			0.95	1.00		0.95	
Satd. Flow (prot)	1770	3539	1583	1770	3539			1770	1583		1770	
Flt Permitted	0.95	1.00	1.00	0.95	1.00			0.76	1.00		1.00	
Satd. Flow (perm)	1770	3539	1583	1770	3539			1410	1583		1863	
Peak-hour factor, PHF	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Adj. Flow (vph)	1	675	55	114	831	0	73	0	75	1	0	0
RTOR Reduction (vph)	0	0	26	0	0	0	0	0	67	0	0	0
Lane Group Flow (vph)	1	675	29	114	831	0	0	73	8	0	1	0
Turn Type	Prot	NA	Perm	Prot	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	1	6		5	2			8			7	
Permitted Phases			6				8		8	7		
Actuated Green, G (s)	1.2	48.1	48.1	9.1	56.0			9.2	9.2		1.6	
Effective Green, g (s)	1.2	48.1	48.1	9.1	56.0			9.2	9.2		1.6	
Actuated g/C Ratio	0.01	0.53	0.53	0.10	0.62			0.10	0.10		0.02	
Clearance Time (s)	4.0	6.8	6.8	4.0	6.8			5.6	5.6		5.6	
Vehicle Extension (s)	2.0	4.0	4.0	2.0	4.0			3.0	3.0		3.0	
Lane Grp Cap (vph)	23	1891	846	178	2202			144	161		33	
v/s Ratio Prot	c0.00	0.19		c0.06	c0.23							
v/s Ratio Perm			0.02					c0.05	0.00		c0.00	
v/c Ratio	0.04	0.36	0.03	0.64	0.38			0.51	0.05		0.03	
Uniform Delay, d1	43.8	12.1	9.9	38.9	8.4			38.3	36.4		43.4	
Progression Factor	1.00	1.00	1.00	1.00	1.00			1.00	1.00		1.00	
Incremental Delay, d2	0.3	0.5	0.1	5.8	0.5			2.8	0.1		0.4	
Delay (s)	44.1	12.6	10.0	44.7	8.9			41.0	36.6		43.8	
Level of Service	D	B	B	D	A			D	D		D	
Approach Delay (s/veh)		12.4			13.2			38.8			43.8	
Approach LOS		B			B			D			D	

Intersection Summary			
HCM 2000 Control Delay (s/veh)	15.0	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.41		
Actuated Cycle Length (s)	90.0	Sum of lost time (s)	22.0
Intersection Capacity Utilization	48.0%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

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MOVEMENT SUMMARY

Site: 101 [I-215 SB/Barton Rd - Proj PM (Site Folder: General)]

Output produced by SIDRA INTERSECTION Version: 9.1.4.221

Existing Conditions Analysis AM
Site Category: (None)
Roundabout

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] ft	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South: La Crosse Ave															
3	L2	All MCs	11	3.0	11	3.0	0.565	16.8	LOS C	3.1	79.1	0.76	0.89	1.24	20.6
8	T1	All MCs	22	3.0	22	3.0	0.565	16.8	LOS C	3.1	79.1	0.76	0.89	1.24	28.8
18	R2	All MCs	291	3.0	291	3.0	0.565	16.8	LOS C	3.1	79.1	0.76	0.89	1.24	24.8
Approach			324	3.0	324	3.0	0.565	16.8	LOS C	3.1	79.1	0.76	0.89	1.24	25.0
East: Barton Rd															
1	L2	All MCs	9	3.0	9	3.0	0.334	5.6	LOS A	1.8	46.5	0.22	0.08	0.22	30.3
6	T1	All MCs	490	3.0	490	3.0	0.334	5.6	LOS A	1.8	46.5	0.22	0.08	0.22	19.3
16	R2	All MCs	373	3.0	373	3.0	0.334	5.6	LOS A	1.8	46.5	0.22	0.08	0.22	30.6
Approach			872	3.0	872	3.0	0.334	5.6	LOS A	1.8	46.5	0.22	0.08	0.22	25.2
North: I-215 SB Ramp															
7	L2	All MCs	382	3.0	382	3.0	0.450	9.7	LOS A	2.6	65.5	0.63	0.57	0.81	22.3
4	T1	All MCs	7	3.0	7	3.0	0.450	9.7	LOS A	2.6	65.5	0.63	0.57	0.81	29.6
14	R2	All MCs	99	3.0	99	3.0	0.124	5.8	LOS A	0.5	11.6	0.51	0.41	0.51	30.1
Approach			487	3.0	487	3.0	0.450	8.9	LOS A	2.6	65.5	0.60	0.54	0.75	23.6
West: Barton Rd															
5	L2	All MCs	25	3.0	25	3.0	0.308	7.0	LOS A	1.4	35.2	0.53	0.39	0.53	29.0
2	T1	All MCs	537	3.0	537	3.0	0.308	7.0	LOS A	1.4	35.2	0.53	0.39	0.53	23.0
12	R2	All MCs	14	3.0	14	3.0	0.308	7.0	LOS A	1.4	35.2	0.53	0.39	0.53	29.7
Approach			576	3.0	576	3.0	0.308	7.0	LOS A	1.4	35.2	0.53	0.39	0.53	23.7
All Vehicles			2259	3.0	2259	3.0	0.565	8.3	LOS A	3.1	79.1	0.46	0.37	0.56	24.4

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: Same as Sign Control.
Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.
LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).
Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).
Roundabout Capacity Model: US HCM 6.
Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: Siegloch M1 implied by US HCM 6 Roundabout Capacity Model.
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	91	779	0	0	714	305	94	7	500	0	0	0
Future Volume (veh/h)	91	779	0	0	714	305	94	7	500	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1870	1870	0	0	1870	1870	1870	1870	1870			
Adj Flow Rate, veh/h	97	829	0	0	760	324	100	0	537			
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94			
Percent Heavy Veh, %	2	2	0	0	2	2	2	2	2			
Cap, veh/h	134	1831	0	0	1199	535	439	0	781			
Arrive On Green	0.08	0.52	0.00	0.00	0.34	0.34	0.25	0.00	0.25			
Sat Flow, veh/h	1781	3647	0	0	3647	1585	1781	0	3170			
Grp Volume(v), veh/h	97	829	0	0	760	324	100	0	537			
Grp Sat Flow(s),veh/h/ln	1781	1777	0	0	1777	1585	1781	0	1585			
Q Serve(g_s), s	2.6	7.2	0.0	0.0	8.8	8.3	2.2	0.0	7.5			
Cycle Q Clear(g_c), s	2.6	7.2	0.0	0.0	8.8	8.3	2.2	0.0	7.5			
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00			
Lane Grp Cap(c), veh/h	134	1831	0	0	1199	535	439	0	781			
V/C Ratio(X)	0.73	0.45	0.00	0.00	0.63	0.61	0.23	0.00	0.69			
Avail Cap(c_a), veh/h	915	4748	0	0	2557	1140	1098	0	1955			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	22.0	7.5	0.0	0.0	13.6	13.4	14.6	0.0	16.6			
Incr Delay (d2), s/veh	2.8	0.1	0.0	0.0	0.4	0.8	0.3	0.0	1.1			
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	1.1	2.0	0.0	0.0	3.0	2.6	0.8	0.0	2.5			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	24.8	7.6	0.0	0.0	14.0	14.2	14.9	0.0	17.7			
LnGrp LOS	C	A			B	B	B		B			
Approach Vol, veh/h		926			1084			637				
Approach Delay, s/veh		9.4			14.1			17.3				
Approach LOS		A			B			B				
Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		30.9			8.7	22.2		17.8				
Change Period (Y+Rc), s		5.8			5.0	5.8		5.8				
Max Green Setting (Gmax), s		65.0			25.0	35.0		30.0				
Max Q Clear Time (g_c+I1), s		9.2			4.6	10.8		9.5				
Green Ext Time (p_c), s		5.8			0.1	5.7		2.5				

Intersection Summary	
HCM 7th Control Delay, s/veh	13.2
HCM 7th LOS	B

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.

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Intersection	
Int Delay, s/veh	2

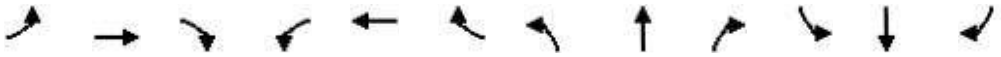
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	1260	39	31	933	45	57
Future Vol, veh/h	1260	39	31	933	45	57
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1326	41	33	982	47	60

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1367	0	1903	684
Stage 1	-	-	-	-	1347	-
Stage 2	-	-	-	-	556	-
Critical Hdwy	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	498	-	61	391
Stage 1	-	-	-	-	207	-
Stage 2	-	-	-	-	538	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	498	-	55	391
Mov Cap-2 Maneuver	-	-	-	-	153	-
Stage 1	-	-	-	-	207	-
Stage 2	-	-	-	-	489	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	1.45	33.23
HCM LOS			D

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	232	-	-	116	-
HCM Lane V/C Ratio	0.463	-	-	0.066	-
HCM Control Delay (s/veh)	33.2	-	-	12.7	1.1
HCM Lane LOS	D	-	-	B	A
HCM 95th %tile Q(veh)	2.3	-	-	0.2	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	54	845	418	63	588	18	353	21	93	21	14	25
Future Volume (veh/h)	54	845	418	63	588	18	353	21	93	21	14	25
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	56	880	435	66	612	19	368	0	112	22	15	26
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	88	1258	561	96	1262	39	508	0	610	45	46	80
Arrive On Green	0.05	0.35	0.35	0.05	0.36	0.36	0.14	0.00	0.19	0.03	0.08	0.08
Sat Flow, veh/h	1781	3554	1585	1781	3518	109	3563	0	3170	1781	614	1065
Grp Volume(v), veh/h	56	880	435	66	309	322	368	0	112	22	0	41
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1851	1781	0	1585	1781	0	1679
Q Serve(g_s), s	2.0	13.5	15.5	2.3	8.6	8.6	6.3	0.0	1.9	0.8	0.0	1.5
Cycle Q Clear(g_c), s	2.0	13.5	15.5	2.3	8.6	8.6	6.3	0.0	1.9	0.8	0.0	1.5
Prop In Lane	1.00		1.00	1.00		0.06	1.00		1.00	1.00		0.63
Lane Grp Cap(c), veh/h	88	1258	561	96	637	664	508	0	610	45	0	126
V/C Ratio(X)	0.64	0.70	0.78	0.68	0.48	0.49	0.72	0.00	0.18	0.49	0.00	0.33
Avail Cap(c_a), veh/h	560	1956	872	840	1257	1310	1120	0	997	840	0	792
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	29.7	17.6	18.3	29.5	15.8	15.8	26.1	0.0	21.5	30.6	0.0	27.9
Incr Delay (d2), s/veh	5.6	0.3	0.9	6.2	0.2	0.2	1.5	0.0	0.1	5.9	0.0	0.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	5.0	5.2	1.1	3.2	3.3	2.6	0.0	0.7	0.4	0.0	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	35.2	17.9	19.2	35.8	16.0	16.0	27.5	0.0	21.6	36.5	0.0	28.4
LnGrp LOS	D	B	B	D	B	B	C		C	D		C
Approach Vol, veh/h		1371			697			480			63	
Approach Delay, s/veh		19.0			17.9			26.2			31.3	
Approach LOS		B			B			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.1	29.3	6.3	19.8	7.8	29.6	13.8	12.4
Change Period (Y+Rc), s	4.7	6.8	4.7	* 7.6	4.7	6.8	4.7	* 7.6
Max Green Setting (Gmax), s	30.0	35.0	30.0	* 20	20.0	45.0	20.0	* 30
Max Q Clear Time (g_c+I1), s	4.3	17.5	2.8	3.9	4.0	10.6	8.3	3.5
Green Ext Time (p_c), s	0.1	5.0	0.0	0.2	0.1	2.6	0.8	0.1

Intersection Summary	
HCM 7th Control Delay, s/veh	20.3
HCM 7th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	2	823	39	108	661	1	56	0	117	1	0	1
Future Volume (vph)	2	823	39	108	661	1	56	0	117	1	0	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	6.8	6.8	4.0	6.8			5.6	5.6		5.6	
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95			1.00	1.00		1.00	
Frt	1.00	1.00	0.85	1.00	1.00			1.00	0.85		0.93	
Flt Protected	0.95	1.00	1.00	0.95	1.00			0.95	1.00		0.98	
Satd. Flow (prot)	1770	3539	1583	1770	3538			1770	1583		1695	
Flt Permitted	0.95	1.00	1.00	0.95	1.00			0.76	1.00		1.00	
Satd. Flow (perm)	1770	3539	1583	1770	3538			1409	1583		1737	
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	2	857	41	112	689	1	58	0	122	1	0	1
RTOR Reduction (vph)	0	0	20	0	0	0	0	0	107	0	2	0
Lane Group Flow (vph)	2	857	21	113	690	0	0	58	15	0	0	0
Turn Type	Prot	NA	Perm	Prot	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	1	6		5	2			8			7	
Permitted Phases			6				8		8	7		
Actuated Green, G (s)	1.7	46.7	46.7	9.0	54.0			10.7	10.7		1.6	
Effective Green, g (s)	1.7	46.7	46.7	9.0	54.0			10.7	10.7		1.6	
Actuated g/C Ratio	0.02	0.52	0.52	0.10	0.60			0.12	0.12		0.02	
Clearance Time (s)	4.0	6.8	6.8	4.0	6.8			5.6	5.6		5.6	
Vehicle Extension (s)	2.0	4.0	4.0	2.0	4.0			3.0	3.0		3.0	
Lane Grp Cap (vph)	33	1836	821	177	2122			167	188		30	
v/s Ratio Prot	c0.00	c0.24		c0.06	0.20							
v/s Ratio Perm			0.01					c0.04	0.01		c0.00	
v/c Ratio	0.06	0.47	0.03	0.64	0.33			0.35	0.08		0.00	
Uniform Delay, d1	43.4	13.7	10.6	38.9	8.9			36.4	35.3		43.4	
Progression Factor	1.00	1.00	1.00	1.00	1.00			1.00	1.00		1.00	
Incremental Delay, d2	0.3	0.3	0.0	5.5	0.4			1.3	0.2		0.0	
Delay (s)	43.6	14.0	10.6	44.4	9.4			37.7	35.4		43.4	
Level of Service	D	B	B	D	A			D	D		D	
Approach Delay (s/veh)		13.9			14.3			36.2			43.4	
Approach LOS		B			B			D			D	

Intersection Summary			
HCM 2000 Control Delay (s/veh)	16.2	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.45		
Actuated Cycle Length (s)	90.0	Sum of lost time (s)	22.0
Intersection Capacity Utilization	53.6%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

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GEOTECHNICAL ENGINEERING INVESTIGATION
PROPOSED DUTCH BROS GRAND TERRACE
22115 BARTON ROAD
GRAND TERRACE, CALIFORNIA

KA PROJECT NO. 112-21146
JANUARY 31, 2022

Prepared for:

MR. RUSS ORSI
DUTCH BROS. LLC
110 SW 4TH STREET
GRANTS PASS, OR 97526

Prepared by:

KRAZAN & ASSOCIATES, INC.
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GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING
CONSTRUCTION TESTING & INSPECTION

January 31, 2022 KA Project No. 112-21146

Mr. Russ Orsi
Construction Manager
Dutch Bros. LLC
110 SW 4th Street
Grants Pass, OR 97526

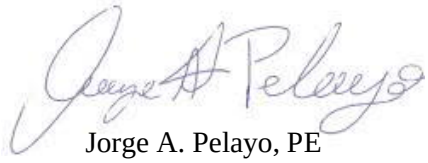
RE: Geotechnical Engineering Investigation
Proposed Dutch Bros Grand Terrace
22115 Barton Road
Grand Terrace, California

Dear Mr. Orsi:

In accordance with your request, we have completed a Geotechnical Engineering Investigation for the above-referenced site. The results of our investigation are presented in the attached report.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact our office at (951) 273-1011.

Respectfully submitted,
KRAZAN & ASSOCIATES, INC.



Jorge A. Pelayo, PE
Project Engineer
RCE No. 91269

JAP

TABLE OF CONTENTS

INTRODUCTION **1**

PURPOSE AND SCOPE **1**

PROPOSED CONSTRUCTION **2**

SITE LOCATION, SITE HISTORY AND SITE DESCRIPTION **2**

GEOLOGIC SETTING **3**

FIELD AND LABORATORY INVESTIGATIONS **3**

SOIL PROFILE AND SUBSURFACE CONDITIONS **4**

GROUNDWATER **4**

FAULT RUPTURE HAZARD ZONES **5**

SEISMIC HAZARDS ZONES **5**

CONCLUSIONS AND RECOMMENDATIONS **7**

Administrative Summary 7
Groundwater Influence on Structures/Construction 8
Site Preparation 8
Collapsible Soils 10
Engineered Fill 10
Drainage and Landscaping 11
Utility Trench Backfill 11
Foundations - Conventional 12
Floor Slabs and Exterior Flatwork 12
Lateral Earth Pressures and Retaining Walls 13
R-Value Test Results and Pavement Design 14
Seismic Parameters – 2019 CBC 15
Soil Cement Reactivity 16
Compacted Material Acceptance 17
Testing and Inspection 17

LIMITATIONS **17**

SITE PLAN ..... **Following Text**

LOG OF BORINGS (1 TO 6) ..... **Appendix A**

GENERAL EARTHWORK SPECIFICATIONS ..... **Appendix B**

GENERAL PAVING SPECIFICATIONS ..... **Appendix C**

January 31, 2022 KA Project No. 112-21146

GEOTECHNICAL ENGINEERING INVESTIGATION
PROPOSED DUTCH BROS GRAND TERRACE
22115 BARTON ROAD
GRAND TERRACE, CALIFORNIA

INTRODUCTION

This report presents the results of our Geotechnical Engineering Investigation for the proposed Starbucks Store to be located at the physical address of 22115 Barton Road, in the city of Grand Terrace, California. Discussions regarding site conditions are presented herein, together with conclusions and recommendations pertaining to site preparation, Engineered Fill, utility trench backfill, drainage and landscaping, foundations, concrete floor slabs and exterior flatwork, retaining walls, soil cement reactivity, and pavement design.

A site plan showing the approximate boring locations is presented following the text of this report. A description of the field investigation, boring logs, and the boring log legend are presented in Appendix A. Appendix A contains a description of the laboratory testing phase of this study; along with the laboratory test results. Appendices B and C contain guides to earthwork and pavement specifications. When conflicts in the text of the report occur with the general specifications in the appendices, the recommendations in the text of the report have precedence.

PURPOSE AND SCOPE

This investigation was conducted to evaluate the soil and groundwater conditions at the subject site, to make geotechnical engineering recommendations for use in design of specific construction elements, and to provide criteria for site preparation and Engineered Fill construction.

Our scope of services was outlined in our Proposal dated December 15, 2021 (Proposal No. G21182CAC) and included the following:

- A site reconnaissance by a member of our engineering staff to evaluate the surface conditions at the project site.
- A field investigation consisting of drilling six (6) borings to depths of approximately ten (10) to twenty (20) feet below existing site grades for evaluation of the subsurface conditions at the project site.

- Performance of one (1) infiltration tests at the subject site in order to determine an estimated infiltration rate for the near surface soil conditions encountered at the subject site.

- Performing laboratory tests on representative soil samples obtained from the borings to evaluate the physical and index properties of the subsurface soils.

- Evaluation of the data obtained from the investigation and an engineering analysis to provide recommendations for use in the project design and preparation of construction specifications.

- Preparation of this report summarizing the results, conclusions, recommendations, and findings of our investigation.

Environmental services, such as a chemical analysis of soil and groundwater for possible environmental contaminates, were not in our scope of services.

PROPOSED CONSTRUCTION

We understand that design of the proposed development is currently underway and as such, specific structural load information and other final details pertaining to the structures are unavailable. On a preliminary basis, it is understood that the proposed development will include the construction of a new Dutch Bros Store with a footprint of approximately 950 square feet at the subject site. It is anticipated that the building will be a single-story structure utilizing concrete slab-on-grade construction supported on a shallow foundation system. Footing loads are anticipated to be relatively light. On-site paved areas, trash enclosure, drive-thru lanes, hardscaping and localized landscaping are also planned for the development. Rough grading of the subject site is anticipated to require only minor cuts and fills in order to establish finished site grades and provide for positive site drainage.

In the event these structural or grading details are inconsistent with the final design criteria, the Soils Engineer should be notified so that we may update this writing as applicable.

SITE LOCATION AND SITE DESCRIPTION

The site is irregularly shaped and encompasses an estimated area of approximately 0.74 acres. The site is located at the physical address of 22115 Barton Road, in the city of Grand Terrace, California.

The site is bound to the north by Barton Road and Grand Terrace Elementary, to the east by Barton Road and commercial properties beyond, to the south by Barton Road and a vacant lot beyond, and to the west by Michigan Street and commercial properties beyond.

Presently, the site has an auto shop at the northern portion of the site and a vacant parcel at the southern portion of the site. Groundcover at the site consists of flexible pavements and localized planter areas scattered throughout the subject site and exposed subgrade at the southern end of the project site. Buried utility lines are reportedly located along the edges of the site and may extend into portions of the site. The site is relatively flat and level with no major changes in grade.

GEOLOGIC SETTING

The subject site is located within the Peninsular Ranges Geomorphic Province (CGS Note 36). The Peninsular Ranges are a series of ranges that are separated by northwest trending valleys, subparallel to faults branching from the San Andreas Fault. The trend of topography is similar to the Coast Ranges, but the geology is more like the Sierra Nevada, with granitic rock intruding the older metamorphic rocks. The Peninsular Ranges extend in to lower California and are bound on the east by the Colorado Desert. The Los Angeles Basin and the island group (Santa Catalina, Santa Barbara, and the distinctly terraced San Clemente and San Nicolas islands), together with the surrounding continental shelf (cut by deep submarine fault troughs), are included in this province.

Locally, the site is within the San Bernardino portion of the Santa Ana River basin; 2.9 miles northeast of the subject site is the San Jacinto Fault Zone and the San Bernardino Mountains beyond. Approximately 9.8 miles northeast of the subject site is the San Andreas Fault zone and the San Bernardino Mountains beyond.

The near-surface deposits in the vicinity of the subject site generally consist of soil deposits that are fine to medium grained, silty sand (SM) to the explored depth of 20 feet below the ground surface. The bedrock underlying the near surface deposits is comprised of Pleistocene-age alluvium (Map Symbol Q_{oa}) consisting of alluvium, lake, playa, and terrace deposits, see the attached Geologic Map (Figure 5) and Boring Logs (Appendix A) for a description of the earth materials encountered during our investigation.

Numerous moderate to large earthquakes have affected the area of the subject site within historic time. Based on the proximity of several dominant active faults and seismogenic structures, as well as the historic seismic record, the area of the subject site is considered subject to relatively high seismicity. The area in consideration shows no mapped faults on-site according to maps prepared by the California Geologic Survey and published by the International Conference of Building Officials (ICBO). No evidence of surface faulting was observed on the property during our reconnaissance.

FIELD AND LABORATORY INVESTIGATIONS

Subsurface soil conditions were explored by drilling a total of six (6) borings to depths ranging from approximately ten (10) to twenty (20) feet below existing site grade, using a truck-mounted drill rig. In addition, 1 bulk subgrade sample was obtained from the site for laboratory R-Value testing. The approximate boring and bulk sample locations are shown on the site plan. During drilling operations, penetration tests were performed at regular intervals to evaluate the soil consistency and to obtain information regarding the engineering properties of the subsurface soils. Soil samples were retained for laboratory testing. The soils encountered were continuously examined and visually classified in accordance with the Unified Soil Classification System. A more detailed description of the field investigation is presented in Appendix A.

Laboratory tests were performed on selected soil samples to evaluate their physical characteristics and engineering properties. The laboratory testing program was formulated with emphasis on the evaluation of natural moisture, density, gradation, shear strength, consolidation potential, R-Value, and moisture-

density relationships of the materials encountered. In addition, chemical tests were performed to evaluate the corrosivity of the soils to buried concrete and metal. Details of the laboratory test program and results of the laboratory tests are summarized in Appendix A. This information, along with the field observations, was used to prepare the final boring logs in Appendix A.

SOIL PROFILE AND SUBSURFACE CONDITIONS

Based on our findings, the subsurface conditions encountered appear typical of those found in the geologic region of the site. Groundcover at the northern end of the site consist of 3 inches of asphalt pavement underlain by approximately 4 inches of discernable base material.

Near surface soil conditions were found to have varying apparent densities and in place moisture contents. In general, the underlying soils encountered at the boring locations consisted of stiff to hard sandy silts up to the depth of approximately 13 feet below current site grades. Below the sandy silt, medium dense silty sand was encountered at a depth of 13 feet below site grades to the maximum depth explored, 20 feet below site grades.

Field and laboratory tests suggest that these soils are moderately strong and slightly compressible. Penetration resistance ranged from 11 to 55 blows per foot. Dry densities measured on relatively undisturbed samples from within 10 feet of the existing ground surface ranged from approximately 109 to 131 pcf. Relatively undisturbed soil samples consolidated approximately 1.6 percent under a 2-ksf load when saturated. A relatively undisturbed soil sample had an angle of internal friction of 27 degrees with a cohesion value of 300 psf.

For additional information about the soils encountered, please refer to the boring logs in Appendix A.

GROUNDWATER

Test boring locations were checked for the presence of groundwater during and immediately following the drilling operations. Groundwater was not encountered in any of the borings drilled as part of our subsurface investigation. Based on a review of historic groundwater data, groundwater is expected to exist at depths in excess of fifty (50) feet below site grades.

It should be recognized that water table elevations may fluctuate with time, being dependent upon seasonal precipitation, irrigation, land use, and climatic conditions, as well as other factors. Therefore, water level observations at the time of the field investigation may vary from those encountered during the construction phase of the project. The evaluation of such factors is beyond the scope of this report.

SEISMICITY AND LIQUEFACTION POTENTIAL

Seismicity is a general term relating to the abrupt release of accumulated strain energy in the rock materials of the earth's crust in a given geographical area. The recurrence of accumulation and subsequent release of strain have resulted in faults and fault systems. Fault patterns and density reflect relative degrees of regional stress through time, but do not necessarily indicate recent seismic activity;

therefore, the degree of seismic risk must be determined or estimated by the seismic record in any given region.

Soil liquefaction is a state of soil particle suspension caused by a complete loss of strength when the effective stress drops to zero. Liquefaction normally occurs under saturated conditions in soils such as clean sand in which the strength is purely frictional. However, liquefaction has occurred in soils other than clean sand. Liquefaction usually occurs under vibratory conditions such as those induced by seismic events. To evaluate the liquefaction potential of the site, the following items were evaluated:

1) Soil type
2) Groundwater depth
3) Relative density
4) Initial confining pressure
5) Intensity and duration of ground shaking

The State of California has not prepared a State of California Seismic Hazard Zones Map for the area where the project site is situated. Thus, the subject site is not located in an area designated by the State of California as a liquefaction hazard zone. Furthermore, the San Bernardino County Land Use Plan Map for Liquefaction identifies the subject site is in an area not designated as a Liquefaction Hazard Zone.

Subsurface soil conditions encountered at the subject site consisted of medium dense granular soil and stiff to hard soil. Groundwater was not encountered at the subject site and is not anticipated to be located within a depth of 50 feet below site grades. Based on the conditions encountered and the results of our laboratory testing, the subsurface conditions encountered at the subject site are not considered to be subject to liquefaction.

FAULT RUPTURE HAZARD ZONES

The Alquist-Priolo Geologic Hazards Zones Act went into effect in March, 1973. Since that time, the Act has been amended 11 times (Hart, 2007). The purpose of the Act, as provided in California Geologic Survey (CGS) Special Publication 42 (SP 42), is to prohibit the location of most structures for human occupancy across the traces of active faults and to mitigate thereby the hazard of fault-rupture." The Act was renamed the Alquist-Priolo Earthquake Fault Zoning Act in 1994, and at that time, the originally designated "Special Studies Zones" was renamed the "Earthquake Fault Zones."

An Earthquake Fault Zones Map has not been prepared for the vicinity of the subject site to date. The nearest zoned fault is a portion of the San Jacinto Fault Zone, located approximately 2.9 miles from the subject site.

SEISMIC HAZARDS ZONES

In 1990, the California State Legislature passed the Seismic Hazard Mapping Act to protect public safety from the effects of strong shaking, liquefaction, landslides, or other ground failure, and other hazards

caused by earthquakes. The Act requires that the State Geologist delineate various seismic hazards zones on Seismic Hazards Zones Maps. Specifically, the maps identify areas where soil liquefaction and earthquake-induced landslides are most likely to occur. A site-specific geotechnical evaluation is required prior to permitting most urban developments within the mapped zones. The Act also requires sellers of real property within the zones to disclose this fact to potential buyers.

A State of California, Special Studies Zone Map has not been prepared for the subject site. San Bernardino County has prepared a Land Use Plan with geologic hazard overlays. According to the County of San Bernardino Land Use Plan, the subject site is located in an area designated as having a low Liquefaction potential.

OTHER HAZARDS

Rockfall, Landslide, Slope Instability, and Debris Flow: The subject site is relatively flat and level. It is our understanding that there are no significant slopes proposed as part of the proposed development. Provided the recommendations presented in this report are implemented into the design and construction of the anticipated development, rockfalls, landslides, slope instability, and debris flows are not anticipated to pose a hazard to the subject site.

Seiches: Seiches are large waves generated within enclosed bodies of water. The site is not located in close proximity to any lakes or reservoirs. As such, seiches are not anticipated to pose a hazard to the subject site.

Tsunamis: Tsunamis are tidal waves generated by fault displacement or major ground movement. The site is several miles from the ocean. As such, tsunamis are not anticipated to pose a hazard to the subject site.

Hydroconsolidation: The near surface soils encountered at the subject site were found to be stiff to hard. Provided the recommendations in this report are incorporated into the design and construction of the proposed development, hydroconsolidation is not anticipated to be a significant concern for the subject site.

EXPANSIVE SOIL

The near-surface sand soils encountered at the site have been identified through laboratory testing as having a low expansion potential. Expansive soils have the potential to undergo volume change, or shrinkage and swelling, with changes in soil moisture. As expansive soils dry, the soil shrinks; when moisture is reintroduced into the soil, the soil swells.

SOIL CORROSIVITY

Corrosion tests were performed to evaluate the soil corrosivity to the buried structures. The tests consisted of sulfate content, chloride content, and resistivity and the results of the tests are included as follows:

Parameter	Results	Test Method
Resistivity	2,960 ohms-m	CA 643
Sulfate	115 ppm	CA 417
Chloride	47 ppm	CA 422
pH	7.5	EPA 9045C

INFILTRATION TESTING

Estimated infiltration rates were determined using the results of open borehole percolation testing performed at the subject site. Infiltration rates were calculated using the Inverse Borehole Method. The percolation testing indicated that the near surface stiff sandy silt soil was found to have an infiltration rate of approximately 0.16 inch per hour. Detailed results of the infiltration testing are included in Appendix A in tabular format. The soil infiltration rates are based on tests conducted with clean water. The infiltration rates may vary with time as a result of soil clogging from water impurities. A factor of safety should be incorporated into the design of the infiltration system to compensate for these factors as determined appropriate by the designer. In addition, routine maintenance consisting of clearing the system of clogged soils and debris should be expected.

CONCLUSIONS AND RECOMMENDATIONS

Based on the findings of our field and laboratory investigations, along with previous geotechnical experience in the project area, the following is a summary of our evaluations, conclusions, and recommendations.

Administrative Summary

In brief, the subject site and soil conditions, with the exception of the loose surficial soils and the existing development at the northern end of the site, appear to be conducive to the development of the project.

To reduce post-construction soil movement and provide uniform support for the buildings and other foundations, overexcavation and recompaction within the proposed building footprint areas should be performed to a minimum depth of at least four (4) feet below existing grades or two (2) feet below the bottom of the proposed foundation bearing grades. In addition, any fill soil present in the building area should be removed and re-placed as compacted Engineered Fill. The actual depth of the overexcavation and recompaction should be determined by our field representative during construction. The exposed subgrade at the base of the overexcavation should then be scarified, moisture-conditioned as necessary, and compacted. The overexcavation and recompaction should also extend laterally five feet (5') beyond

edges of the proposed footings or building limits. Any undocumented fill encountered during grading should be removed and replaced with Engineered Fill.

To reduce post-construction soil movement and provide uniform support for the proposed parking and drive area, overexcavation and recompaction of the near surface soil in the proposed parking area should be performed to a minimum depth of at least twelve (12) inches below existing grades or proposed subgrade, whichever is deeper. The actual depth of the overexcavation and recompaction should be determined by our field representative during construction. The overexcavation and recompaction should also extend laterally at least three (3) feet beyond edges of the proposed paving limits or to the property boundary. Any undocumented fill encountered during grading should be removed and replaced with Engineered Fill.

Fill soils should be placed in lifts approximately 6 inches thick, moisture-conditioned to a minimum of 2 percent above optimum moisture-content, and compacted to achieve at least 95 percent maximum density based on ASTM Test Method D1557. Additional lifts should not be placed if the previous lift did not meet the required density or if soil conditions are not stable.

Unless designed by the project structural engineer, concrete slabs-on-grade should be a minimum of five (5) inches thick. It is recommended that the concrete slab be reinforced to reduce crack separation and possible vertical offset at the cracks. We recommend at least No. 3 reinforcing bars placed on 18-inch centers, be used for this purpose. Thicker floor slabs with increased concrete strength and reinforcement should be designed wherever heavy concentrated loads, heavy equipment, or machinery is anticipated.

The exterior floors should be poured separately in order to act independently of the walls and foundation system. Exterior finish grades should be sloped a minimum of 2 percent away from all interior slab areas to preclude ponding of water adjacent to the structures. All fills required to bring the building pads to grade should be Engineered Fills.

Groundwater Influence on Structures/Construction

During our field investigation free groundwater was not encountered in any of the borings drilled as part of this investigation. It is not anticipated that groundwater will impact the proposed development. If groundwater is encountered, our firm should be consulted prior to dewatering the site. In addition to the groundwater level, if earthwork is performed during or soon after periods of precipitation, the subgrade soils may become saturated, pump, or not respond to densification techniques. Typical remedial measures include discing and aerating the soil during dry weather; mixing the soil with dryer materials; removing and replacing the soil with an approved fill material; or mixing the soil with an approved lime or cement product. Our firm should be consulted prior to implementing remedial measures to observe the unstable subgrade conditions and provide appropriate recommendations.

Site Preparation

General site clearing should include removal of vegetation; existing utilities; structures including foundations; existing stockpiled soil; trees and associated root systems; rubble; rubbish; and any loose and/or saturated materials. Site stripping should extend to a minimum depth of 2 to 4 inches, or until all

organics in excess of 3 percent by volume are removed. Deeper stripping may be required in localized areas. These materials will not be suitable for use as Engineered Fill. However, stripped topsoil may be stockpiled and reused in landscape or non-structural areas.

Overexcavation and Recompaction – Building and Foundation Areas

To reduce post-construction soil movement and provide uniform support for the buildings and other foundations, overexcavation and recompaction within the proposed building footprint areas should be performed to a minimum depth of at least four (4) feet below existing grades or two (2) feet below the bottom of the proposed foundation bearing grades. In addition, any fill soil present in the building area should be removed and re-placed as compacted Engineered Fill. The actual depth of the overexcavation and recompaction should be determined by our field representative during construction. The exposed subgrade at the base of the overexcavation should then be scarified, moisture-conditioned as necessary, and compacted. The overexcavation and recompaction should also extend laterally five feet (5') beyond edges of the proposed footings or building limits. Any undocumented fill encountered during grading should be removed and replaced with Engineered Fill.

Overexcavation and Recompaction – Proposed Parking Area

To reduce post-construction soil movement and provide uniform support for the proposed parking and drive areas, overexcavation and recompaction of the near surface soil in the proposed parking area should be performed to a minimum depth of at least twelve (12) inches below existing grades or proposed subgrade, whichever is deeper. The actual depth of the overexcavation and recompaction should be determined by our field representative during construction. The overexcavation and recompaction should also extend laterally at least three (3) feet beyond edges of the proposed paving limits or to the property boundary. Any undocumented fill encountered during grading should be removed and replaced with Engineered Fill.

Any buried structures encountered during construction should be properly removed and the resulting excavations backfilled with Engineered Fill, compacted to a minimum of 95 percent of the maximum dry density based on ASTM Test Method D1557. Excavations, depressions, or soft and pliant areas extending below planned finished subgrade levels should be cleaned to firm, undisturbed soil and backfilled with Engineered Fill. In general, any septic tanks, debris pits, cesspools, or similar structures should be entirely removed. Concrete footings should be removed to an equivalent depth of at least 3 feet below proposed footing elevations or as recommended by the Soils Engineer. Any other buried structures encountered, should be removed in accordance with the recommendations of the Soils Engineer. The resulting excavations should be backfilled with Engineered Fill.

The shrinkage on recompacted soil and fill placement is estimated at 10 to 15 percent. Subsidence within building areas, below the recompaction bottom, is anticipated to be less than 0.01 feet, due to the recommended overexcavation. Subsidence within parking areas, below the 12-inch recompaction depth, is estimated at 0.1 feet.

The upper soils, during wet winter months become very moist due to the absorptive characteristics of the soil. Earthwork operations performed during winter months may encounter very moist unstable soils,

which may require removal to grade a stable building foundation. Project site winterization consisting of placement of aggregate base and protecting exposed soils during the construction phase should be performed.

A representative of our firm should be present during all site clearing and grading operations to test and observe earthwork construction. This testing and observation is an integral part of our service as acceptance of earthwork construction is dependent upon compaction of the material and the stability of the material. The Soils Engineer may reject any material that does not meet compaction and stability requirements. Further recommendations of this report are predicated upon the assumption that earthwork construction will conform to recommendations set forth in this section and the Engineered Fill section.

Collapsible Soils

The near surface soils encountered at the subject site are moisture-sensitive and are moderately compressible under saturated conditions. Structures within the project vicinity have experienced excessive post-construction settlement, when the foundation soils become near saturated. As recommended in the site preparation section of this report, the collapsible soils should be removed and recompacted to a minimum of 95 percent of the maximum dry density based on ASTM D1557 Test Method.

Engineered Fill

The on-site native soils are predominately poorly-graded sands. These soils will be suitable for reuse as Non-Expansive Engineered Fill, provided they are cleansed of excessive organics, fragments greater than 4 inches in diameter, and debris.

The preferred materials specified for Engineered Fill are suitable for most applications with the exception of exposure to erosion. Project site winterization and protection of exposed soils during the construction phase should be the sole responsibility of the Contractor, since he has complete control of the project site at that time.

Imported Non-Expansive Fill should consist of a well-graded, slightly cohesive, fine silty sand or sandy silt, with relatively impervious characteristics when compacted. This material should be approved by the Soils Engineer prior to use and should typically possess the following characteristics:

Percent Passing No. 200 Sieve	20 to 50
Plasticity Index	10 maximum
UBC Standard 29-2 Expansion Index	15 maximum

Fill soils should be placed in lifts approximately 6 inches thick, moisture-conditioned to at least optimum moisture-content, and compacted to achieve at least 95 percent of the maximum dry density

based on ASTM Test Method D1557. Additional lifts should not be placed if the previous lift did not meet the required density or if soil conditions are not stable.

Drainage and Landscaping

The ground surface should slope away from building pad and pavement areas toward appropriate drop inlets or other surface drainage devices. In accordance with Section 1804.4 of the 2019 California Building Code, it is recommended that the ground surface adjacent to foundations be sloped a minimum of 5 percent for a minimum distance of 10 feet away from structures, or to an approved alternative means of drainage conveyance. Swales used for conveyance of drainage and located within 10 feet of foundations should be sloped a minimum of 2 percent. Impervious surfaces, such as pavement and exterior concrete flatwork, within 10 feet of building foundations should be sloped a minimum of 2 percent away from the structure. Drainage gradients should be maintained to carry all surface water to collection facilities and off-site. These grades should be maintained for the life of the project.

Slots or weep holes should be placed in drop inlets or other surface drainage devices in pavement areas to allow free drainage of adjoining base course materials. Cutoff walls should be installed at pavement edges adjacent to vehicular traffic areas; these walls should extend to a minimum depth of 12 inches below pavement subgrades to limit the amount of seepage water that can infiltrate the pavements. Where cutoff walls are undesirable subgrade drains can be constructed to transport excess water away from planters to drainage interceptors. If cutoff walls can be successfully used at the site, construction of subgrade drains is considered unnecessary.

Utility Trench Backfill

Utility trenches should be excavated according to accepted engineering practice following OSHA (Occupational Safety and Health Administration) standards by a Contractor experienced in such work. The responsibility for the safety of open trenches should be borne by the Contractor. Traffic and vibration adjacent to trench walls should be reduced; cyclic wetting and drying of excavation side slopes should be avoided. Depending upon the location and depth of some utility trenches, groundwater flow into open excavations could be experienced, especially during or shortly following periods of precipitation.

Utility trench backfill placed in or adjacent to buildings and exterior slabs should be compacted to at least 95 percent of the maximum dry density based on ASTM Test Method D1557. Utility trench backfill placed in pavement areas should be compacted to at least 95 percent of the maximum dry density based on ASTM Test Method D1557. Pipe bedding should be in accordance with pipe manufacturer's recommendations.

Sandy soil conditions were encountered at the site. These cohesionless soils have a tendency to cave in trench wall excavations. Shoring or sloping back trench sidewalls may be required within these sandy and gravelly soils.

The Contractor is responsible for removing all water-sensitive soils from the trench regardless of the backfill location and compaction requirements. The Contractor should use appropriate equipment and methods to avoid damage to the utilities and/or structures during fill placement and compaction.

Foundations - Conventional

The proposed structures may be supported on a shallow foundation system bearing on a minimum of two (2) feet of Engineered Fill. Spread and continuous footings can be designed for the following maximum allowable soil bearing pressures:

Load	Allowable Loading
Dead Load Only	1,800 psf
Dead-Plus-Live Load	2,400 psf
Total Load, including wind or seismic loads	3,200 psf

The footings should have a minimum depth of 18 inches below pad subgrade (soil grade) or adjacent exterior grade, whichever is lower. Footings should have a minimum width of 15 inches, regardless of load.

The total soil movement is not expected to exceed 1 inch. Differential movement measured across a horizontal distance of 30 feet should be less than ½ inch. Most of the settlement is expected to occur during construction as the loads are applied. However, additional post-construction settlement may occur if the foundation soils are flooded or saturated.

The footing excavations should not be allowed to dry out any time prior to pouring concrete. It is recommended that footings be reinforced by at least one No. 4 reinforcing bar in both top and bottom.

Resistance to lateral footing displacement can be computed using an allowable friction factor of 0.25 acting between the base of foundations and the supporting subgrade. Lateral resistance for footings can alternatively be developed using an allowable equivalent fluid passive pressure of 200 pounds per cubic foot acting against the appropriate vertical footing faces. The frictional and passive resistance of the soil may be combined without reduction in determining the total lateral resistance. A ⅓ increase in the above value may be used for short duration, wind, or seismic loads. All of the above earth pressures are unfactored and are, therefore, not inclusive of factors of safety.

Floor Slabs and Exterior Flatwork

Concrete slab-on-grade floors should be underlain by a water vapor retarder. The water vapor retarder should be installed in accordance with accepted engineering practices. The water vapor retarder should consist of a vapor retarder sheeting underlain by a minimum of 3 inches of compacted, clean, gravel of ¾-inch maximum size. To aid in concrete curing an optional 2 to 4 inches of granular fill may be placed on top of the vapor retarder. The granular fill should consist of damp clean sand with at least 10 to 30 percent of the sand passing the 100 sieve. The sand should be free of clay, silt, or organic material. Rock dust which is manufactured sand from rock crushing operations is typically suitable for the granular fill. This granular fill material should be compacted.

Unless designed by the project structural engineer, concrete slabs-on-grade should be a minimum of five (5) inches thick. It is recommended that the concrete slab be reinforced to reduce crack separation and possible vertical offset at the cracks. We recommend at least No. 3 reinforcing bars placed on 18-inch centers, be used for this purpose. Thicker floor slabs with increased concrete strength and reinforcement should be designed wherever heavy concentrated loads, heavy equipment, or machinery is anticipated.

The exterior floors should be poured separately in order to act independently of the walls and foundation system. Exterior finish grades should be sloped a minimum of 2 percent away from all interior slab areas to preclude ponding of water adjacent to the structures. All fills required to bring the building pads to grade should be Engineered Fills.

Moisture within the structure may be derived from water vapors, which were transformed from the moisture within the soils. This moisture vapor can travel through the vapor membrane and penetrate the slab-on-grade. This moisture vapor penetration can affect floor coverings and produce mold and mildew in the structure. To reduce moisture vapor intrusion, it is recommended that a vapor retarder be installed. It is recommended that the utility trenches within the structure be compacted, as specified in our report, to reduce the transmission of moisture through the utility trench backfill. Special attention to the immediate drainage and irrigation around the building is recommended. Positive drainage should be established away from the structure and should be maintained throughout the life of the structure. Ponding of water should not be allowed adjacent to the structure. Over-irrigation within landscaped areas adjacent to the structure should not be performed. In addition, ventilation of the structure (i.e. ventilation fans) is recommended to reduce the accumulation of interior moisture.

Lateral Earth Pressures and Retaining Walls

Walls retaining horizontal backfill and capable of deflecting a minimum of 0.1 percent of its height at the top may be designed using an equivalent fluid active pressure of 45 pounds per square foot per foot of depth. Walls incapable of this deflection or are fully constrained walls against deflection may be designed for an equivalent fluid at-rest pressure of 66 pounds per square foot per foot of depth. Expansive soils should not be used for backfill against walls. The wedge of non-expansive backfill material should extend from the bottom of each retaining wall outward and upward at a slope of 2:1 (horizontal to vertical) or flatter. The stated lateral earth pressures do not include the effects of hydrostatic water pressures generated by infiltrating surface water that may accumulate behind the retaining walls; or loads imposed by construction equipment, foundations, or roadways. All of the above earth pressures are unfactored and are, therefore, not inclusive of factors of safety.

During grading and backfilling operations adjacent to any walls, heavy equipment should not be allowed to operate within a lateral distance of 5 feet from the wall, or within a lateral distance equal to the wall height, whichever is greater, to avoid developing excessive lateral pressures. Within this zone, only hand-operated equipment ("whackers," vibratory plates, or pneumatic compactors) should be used to compact the backfill soils.

Retaining and/or below grade walls should be drained with either perforated pipe encased in free-draining gravel or a prefabricated drainage system. The gravel zone should have a minimum width of 12

inches wide and should extend upward to within 12 inches of the top of the wall. The upper 12 inches of backfill should consist of native soils, concrete, asphaltic concrete, or other suitable backfill to reduce surface drainage into the wall drain system. The aggregate should conform to Class 2 permeable materials graded in accordance with CalTrans Standard Specifications (2010). Prefabricated drainage systems, such as Miradrain®, Enkadrain®, or an equivalent substitute, are acceptable alternatives in lieu of gravel provided they are installed in accordance with the manufacturer's recommendations. If a prefabricated drainage system is proposed, our firm should review the system for final acceptance prior to installation.

Drainage pipes should be placed with perforations down and should discharge in a non-erosive manner away from foundations and other improvements. The pipes should be placed no higher than 6 inches above the heel of the wall, in the center line of the drainage blanket and should have a minimum diameter of four inches. Collector pipes may be either slotted or perforated. Slots should be no wider than ⅛ inch in diameter, while perforations should be no more than ¼ inch in diameter. If retaining walls are less than 6 feet in height, the perforated pipe may be omitted in lieu of weep holes on 4 feet maximum spacing. The weep holes should consist of 4-inch diameter holes (concrete walls) or unmortared head joints (masonry walls) and not be higher than 18 inches above the lowest adjacent grade. Two 8-inch square overlapping patches of geotextile fabric (conforming to CalTrans Standard Specifications for "edge drains") should be affixed to the rear wall opening of each weep hole to retard soil piping.

R-Value Test Results and Pavement Design

One bulk soil sample was obtained from the project site for R-Value testing at the location shown on the attached site plan. The sample was tested in accordance with the State of California Materials Manual Test Designation 301. Results of the test are as follows:

Sample	Depth	Description	R-Value at Equilibrium
1	0-36"	Sandy Silt (ML)	25

The test results are moderate and indicate good subgrade support characteristics under dynamic traffic loads. The following table shows the recommended pavement sections for various traffic indices.

Traffic Index	Asphaltic Concrete	Class II Aggregate Base*	Compacted Subgrade**
4.0	2.0"	6.0"	12.0"
4.5	2.5"	6.0"	12.0"
5.0	2.5"	7.5"	12.0"
5.5	3.0"	7.5"	12.0"
6.0	3.0"	9.5"	12.0"
6.5	3.5"	9.5"	12.0"
7.0	4.0"	10.5"	12.0"
7.5	4.0"	12.0"	12.0"

**** 95% compaction based on ASTM Test Method D1557 or CAL 216***
***** 95% compaction based on ASTM Test Method D1557 or CAL 216***

If traffic indices are not available, an estimated (typical value) index of 4.5 may be used for light automobile traffic and an index of 7.0 may be used for light truck traffic. Following grading operations, it is recommended additional R-Value testing be performed to verify the design R-Value.

The following recommendations are for light-duty and heavy-duty Portland Cement Concrete pavement sections.

PORTLAND CEMENT PAVEMENT
LIGHT DUTY

Traffic Index	Portland Cement Concrete***	Class II Aggregate Base*	Compacted Subgrade**
4.5	5.0"	4.0"	12.0"

HEAVY DUTY

Traffic Index	Portland Cement Concrete***	Class II Aggregate Base*	Compacted Subgrade**
7.0	6.5"	4.0"	12.0"

**** 95% compaction based on ASTM Test Method D1557 or CAL 216***
***** 95% compaction based on ASTM Test Method D1557 or CAL 216***
******Minimum compressive strength of 3000 psi***

Seismic Parameters – 2019 California Building Code

The Site Class per Section 1613 of the 2019 California Building Code (2019 CBC) and Table 20.3-1 of ASCE 7-16 is based upon the site soil conditions. It is our opinion that a Site Class D is most consistent with the subject site soil conditions. For seismic design of the structures based on the seismic provisions of the 2019 CBC, we recommend the following parameters:

Seismic Item	Value	CBC Reference
Site Class	D	Section 1613.3.2
Site Coefficient F_a	1.000	Table 1613.3.3 (1)
S_S	1.933	Section 1613.3.1
S_{MS}	1.933	Section 1613.3.3
S_{DS}	1.288	Section 1613.3.4
Site Coefficient F_v	1.700	Table 1613.3.3 (2)
S_1	0.762	Section 1613.3.1
S_{M1}	1.295	Section 1613.3.3
S_{D1}	0.864	Section 1613.3.4
T_S	0.670	
PGA_M	0.898	

INFILTRATION TESTING

The shallow soil conditions present at the subject site were evaluated by drilling shallow borings in the vicinity of the infiltration test. The borings drilled at the site indicated the subsurface soil conditions consisted of medium dense sands.

Infiltration rates were determined using the results of open borehole infiltration testing performed at the subject site. Infiltration testing performed on the near surface sandy silt soil indicates an infiltration rate of approximately 0.16 inch per hour. Based on the very low infiltration rates, the subsurface conditions encountered at the subject site are not considered conducive to infiltration. Detailed results of the percolation test and infiltration rate are attached in tabular format. The soil percolation rates are based on tests conducted with clean water. The infiltration rates may vary with time as a result of soil clogging from water impurities. A factor of safety should be incorporated into the design of the percolation system to compensate for these factors as determined appropriate by the designer. In addition, periodic maintenance consisting of clearing the bottom of the system of clogged soils should be expected.

It is recommended that the location of the infiltration systems not be closer than ten feet (10') as measured laterally from the edge of the adjacent property line, ten feet (10') from the outside edge of any foundation and five (5') from the edge of any right-of way to the outside edges of the infiltration system.

If the infiltration location is within ten feet (10') from the proposed foundation, it is recommended that this infiltration system should be impervious from the finished ground surface to a depth that will achieve a diagonal distance of a minimum of ten feet (10') below the bottom of the closest footing in the project.

Soil Cement Reactivity

Excessive sulfate in either the soil or native water may result in an adverse reaction between the cement in concrete (or stucco) and the soil. HUD/FHA and CBC have developed criteria for evaluation of sulfate levels and how they relate to cement reactivity with soil and/or water.

One soil sample was obtained from the site and tested in accordance with State of California Materials Manual Test Designation 417. The sulfate concentrations detected in these soil samples were found to be negligible and are below the maximum allowable values established by HUD/FHA and UBC. Therefore, no special design requirements are necessary to compensate for sulfate reactivity with the cement.

Electrical resistivity testing of the soils indicates that the onsite soils may have a severe potential for metal loss from electrochemical corrosion process. A qualified corrosion engineer may be consulted regarding mitigation of the corrosion effects of the onsite soils on underground metal utilities.

Compacted Material Acceptance

Compaction specifications are not the only criteria for acceptance of the site grading or other such activities. However, the compaction test is the most universally recognized test method for assessing the performance of the Grading Contractor. The numerical test results from the compaction test cannot be used to predict the engineering performance of the compacted material. Therefore, the acceptance of compacted materials will also be dependent upon the stability of that material. The Soils Engineer has the option of rejecting any compacted material regardless of the degree of compaction if that material is considered to be unstable or if future instability is suspected. A specific example of rejection of fill material passing the required percent compaction is a fill which has been compacted with an in-situ moisture-content significantly less than optimum moisture. This type of dry fill (brittle fill) is susceptible to future settlement if it becomes saturated or flooded.

Testing and Inspection

A representative of Krazan & Associates, Inc. should be present at the site during the earthwork activities to confirm that actual subsurface conditions are consistent with the exploratory fieldwork. This activity is an integral part of our service, as acceptance of earthwork construction is dependent upon compaction testing and stability of the material. This representative can also verify that the intent of these recommendations is incorporated into the project design and construction. Krazan & Associates, Inc. will not be responsible for grades or staking, since this is the responsibility of the Prime Contractor.

LIMITATIONS

Soils Engineering is one of the newest divisions of Civil Engineering. This branch of Civil Engineering is constantly improving as new technologies and understanding of earth sciences advance. Although your site was analyzed using the most appropriate and most current techniques and methods, undoubtedly there will be substantial future improvements in this branch of engineering. In addition to advancements in the field of Soils Engineering, physical changes in the site, either due to excavation or fill placement, new agency regulations, or possible changes in the proposed structure after the soils report is completed may require the soils report to be professionally reviewed. In light of this, the Owner should be aware that there is a practical limit to the usefulness of this report without critical review. Although the time limit for this review is strictly arbitrary, it is suggested that 2 years be considered a reasonable time for the usefulness of this report.

Foundation and earthwork construction is characterized by the presence of a calculated risk that soil and groundwater conditions have been fully revealed by the original foundation investigation. This risk is derived from the practical necessity of basing interpretations and design conclusions on limited sampling of the earth. The recommendations made in this report are based on the assumption that soil conditions do not vary significantly from those disclosed during our field investigation. If any variations or undesirable conditions are encountered during construction, the Soils Engineer should be notified so that supplemental recommendations may be made.

The conclusions of this report are based on the information provided regarding the proposed construction. If the proposed construction is relocated or redesigned, the conclusions in this report may

not be valid. The Soils Engineer should be notified of any changes so the recommendations may be reviewed and re-evaluated.

This report is a Geotechnical Engineering Investigation with the purpose of evaluating the soil conditions in terms of foundation design. The scope of our services did not include any Environmental Site Assessment for the presence or absence of hazardous and/or toxic materials in the soil, groundwater, or atmosphere; or the presence of wetlands. Any statements, or absence of statements, in this report or on any boring log regarding odors, unusual or suspicious items, or conditions observed, are strictly for descriptive purposes and are not intended to convey engineering judgment regarding potential hazardous and/or toxic assessment.

The geotechnical engineering information presented herein is based upon professional interpretation utilizing standard engineering practices and a degree of conservatism deemed proper for this project. It is not warranted that such information and interpretation cannot be superseded by future geotechnical engineering developments. We emphasize that this report is valid for the project outlined above and should not be used for any other sites.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact our office at (951) 273-1011.

Respectfully submitted,
KRAZAN & ASSOCIATES, INC.



Jorge A. Pelayo, PE
Project Engineer
RCE No. 91269

Angel Menchaca, EIT
Staff Engineer

Figures

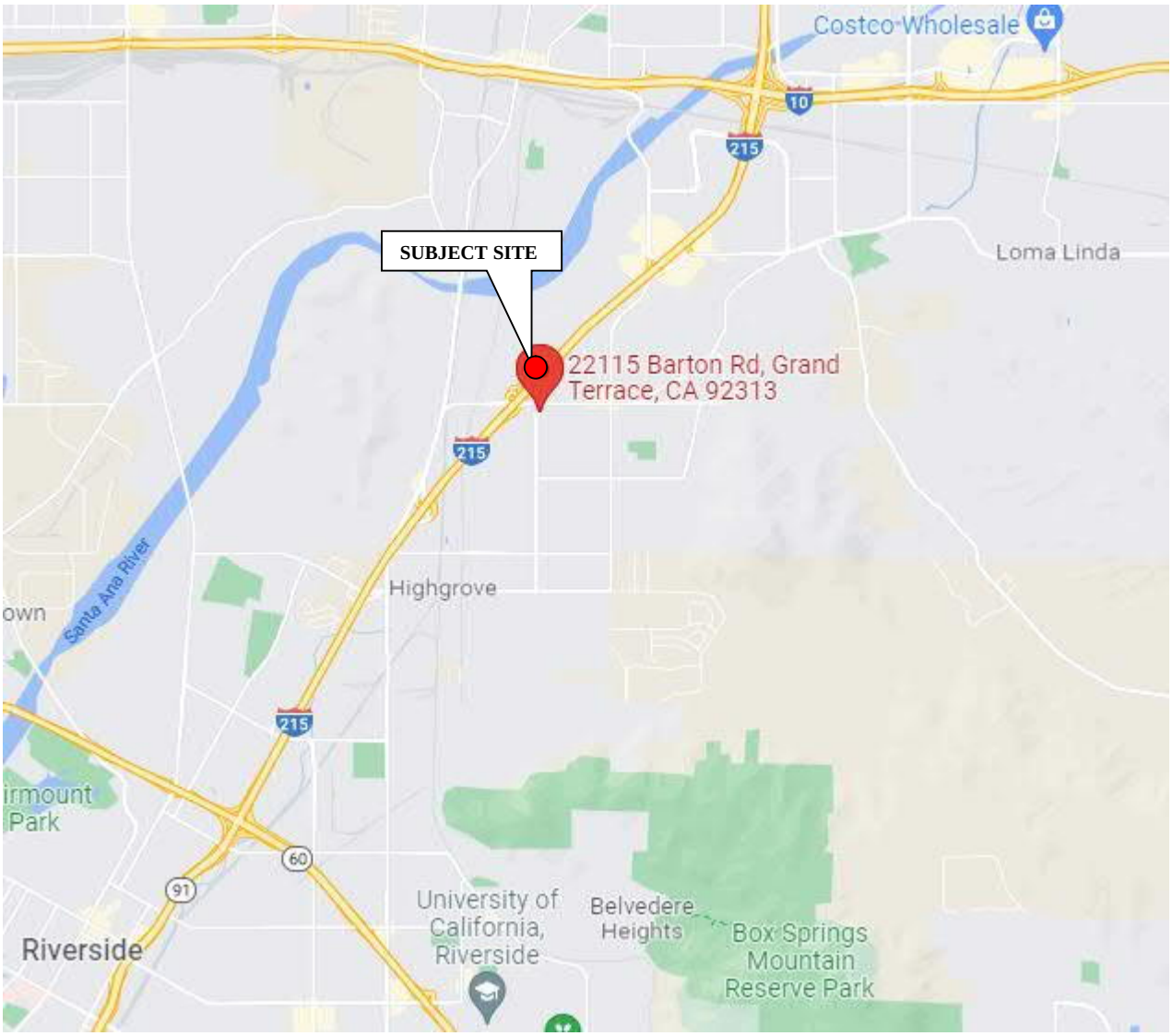


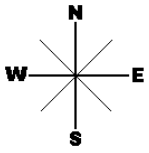
APPROXIMATE BORING LOCATION

APPROXIMATE INFILTRATION TEST LOCATION

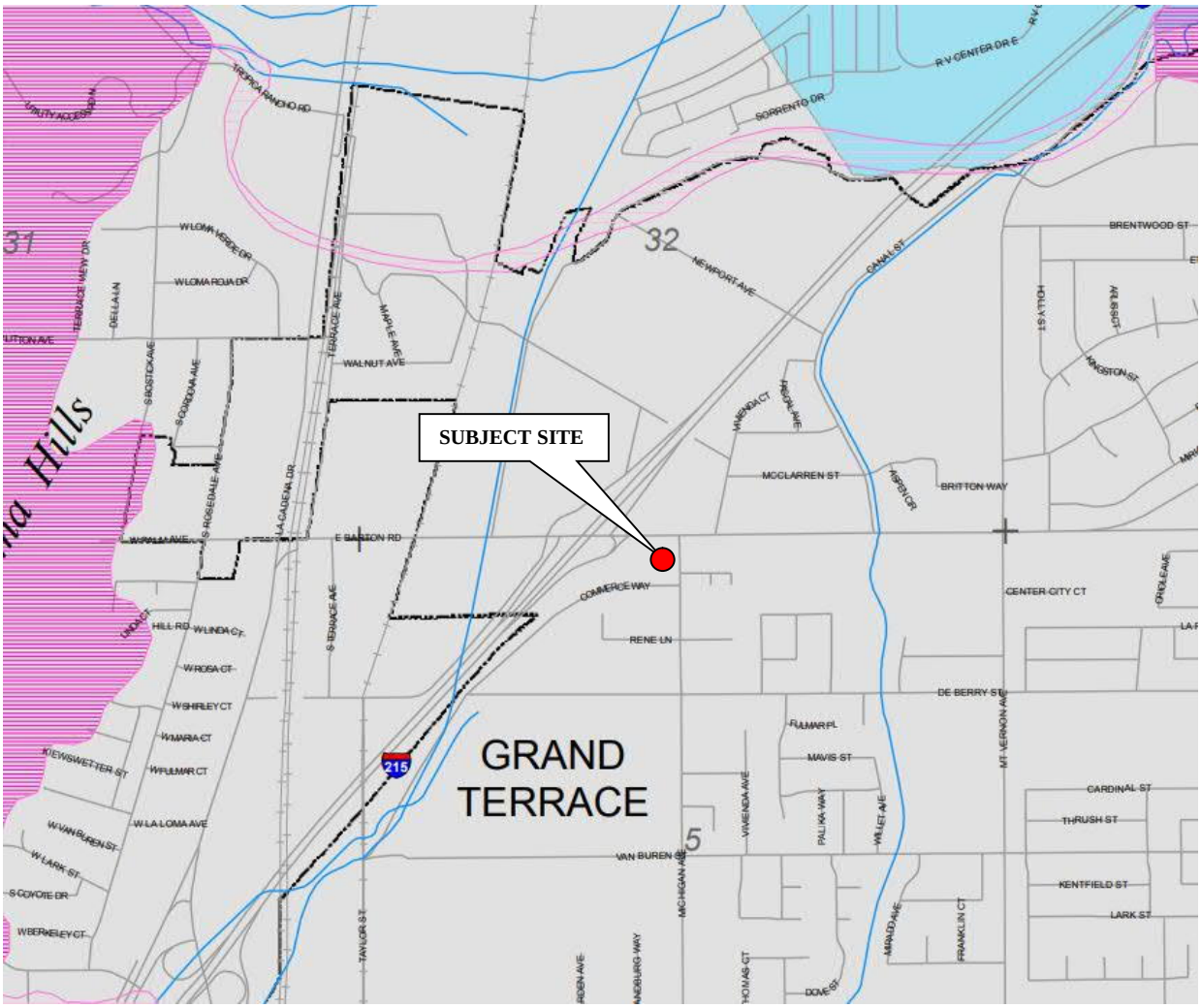
APPROXIMATE R-VALUE LOCATION

SITE MAP	**Scale:** NTS	**Date:** January, 2022	Krazan GEOTECHNICAL ENGINEERING
PROPOSED DUTCH BROS 22115 BARTON ROAD GRAND TERRACE, CALIFORNIA	**Drawn by:** AM	**Approved by:** JAP	
	Project No. 112-21146	**Figure No.** 1	



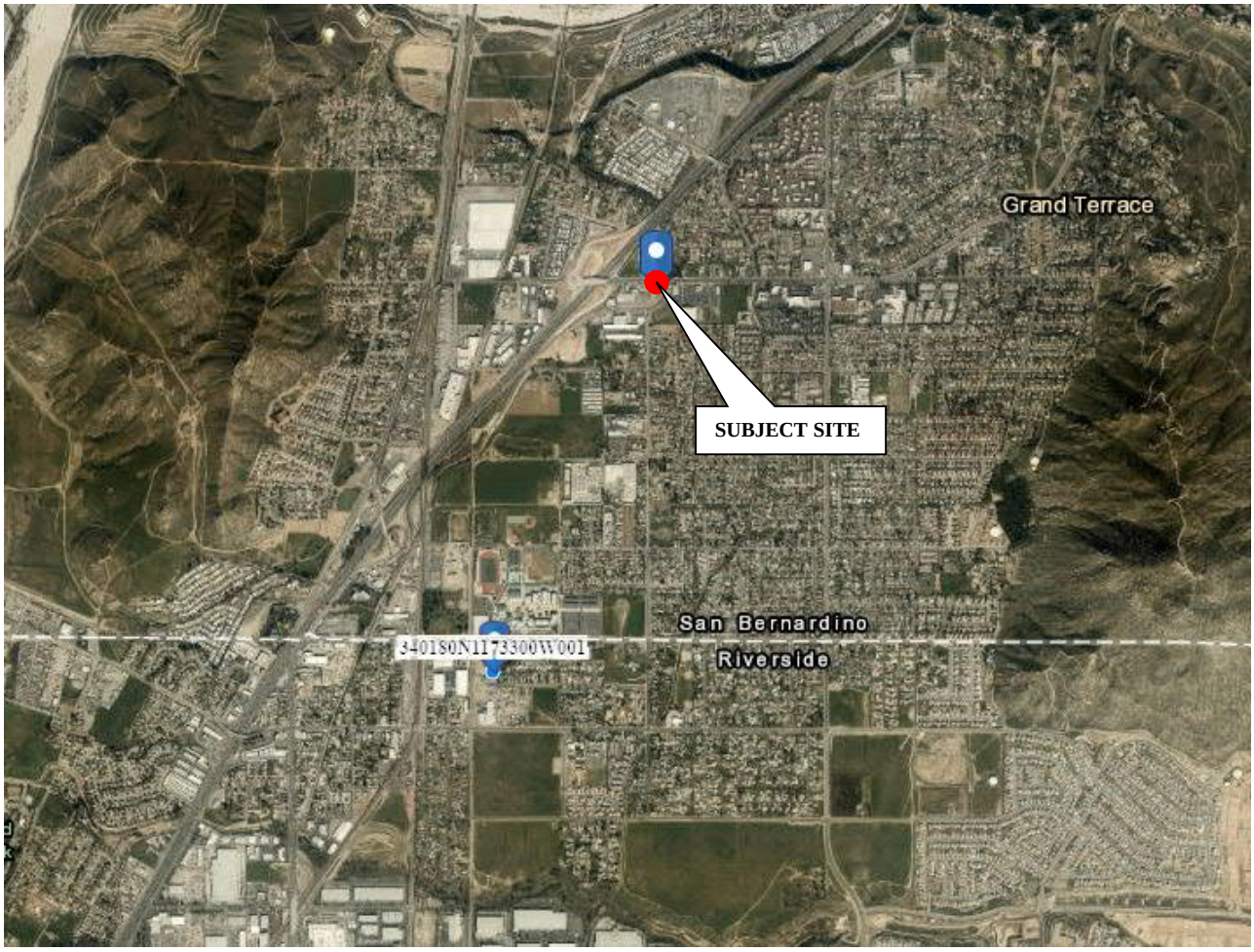


VICINITY MAP	**Scale:** NTS	**Date:** January, 2022	Krazan GEOTECHNICAL ENGINEERING
PROPOSED DUTCH BROS 22115 BARTON ROAD GRAND TERRACE, CALIFORNIA	**Drawn by:** AM	**Approved by:** JAP	
	Project No. 112-21146	**Figure No.** 2	

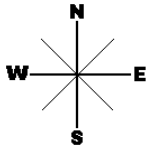


Source: San Bernardino County Land Use Plan General Plan Geologic Hazard Overlays

EARTHQUAKE ZONES OF REQUIRED INVESTIGATION MAP	**Scale:** NTS	**Date:** January, 2022	Krazan GEOTECHNICAL ENGINEERING
PROPOSED DUTCH BROS 22115 BARTON ROAD GRAND TERRACE, CALIFORNIA	**Drawn by:** AM	**Approved by:** JAP	
	Project No. 112-21146	**Figure No.** 3	

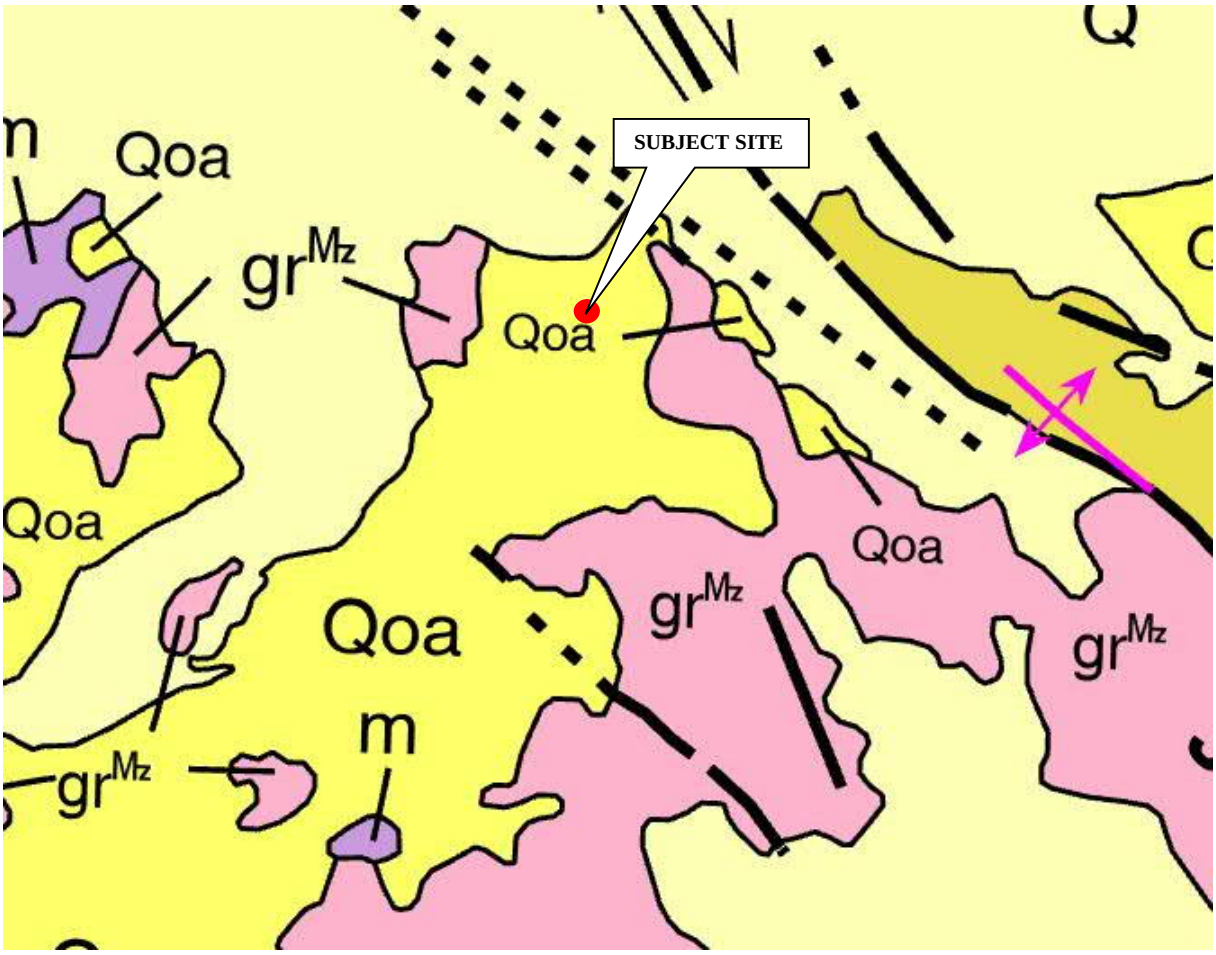


Depth to groundwater about 178 feet below the ground surface elevation measured at well number 340180N1173300W001 about 1.2 southwest from the project site



Source: Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA

HISTORICAL GROUNDWATER	**Scale:** NTS	**Date:** January, 2022	Krazan GEOTECHNICAL ENGINEERING
PROPOSED DUTCH BROS 22115 BARTON ROAD GRAND TERRACE, CALIFORNIA	**Drawn by:** AM	**Approved by:** JAP	
	Project No. 112-21146	**Figure No.** 4	



Generalized Rock Types: Qoa

General Lithology	marine and nonmarine (continental) sedimentary rocks
Age	Pleistocene
Description	Older alluvium, lake, playa, and terrace deposits.

Source: Department of Conservation: Geologic Map of California, 2010

GEOLOGIC MAP	**Scale:** NTS	**Date:** January, 2022	Krazan GEOTECHNICAL ENGINEERING
PROPOSED DUTCH BROS 22115 BARTON ROAD GRAND TERRACE, CALIFORNIA	**Drawn by:** AM	**Approved by:** JAP	
	Project No. 112-21146	**Figure No.** 5	

Appendix A

Log of Borings & Laboratory Testing

APPENDIX A

FIELD AND LABORATORY INVESTIGATIONS

Field Investigation

The field investigation consisted of a surface reconnaissance and a subsurface exploratory program. Six 7½-inch diameter exploratory borings were advanced to depths of up to twenty feet below site grades. The boring locations are shown on the site plan.

The soils encountered were logged in the field during the exploration and, with supplementary laboratory test data, are described in accordance with the Unified Soil Classification System.

Modified standard penetration tests and standard penetration tests were performed at selected depths. This test represents the resistance to driving a 2½-inch and 1½-inch diameter split barrel sampler, respectively. The driving energy was provided by a hammer weighing 140 pounds falling 30 inches. Relatively undisturbed soil samples were obtained while performing this test. Bag samples of the disturbed soil were obtained from the auger cuttings. The modified standard penetration tests are identified in the sample type on the boring logs with a full shaded in block. The standard penetration tests are identified in the sample type on the boring logs with one-half of the block shaded. All samples were returned to our Corona laboratory for evaluation.

Laboratory Investigation

The laboratory investigation was programmed to determine the physical and mechanical properties of the foundation soil underlying the site. Test results were used as criteria for determining the engineering suitability of the surface and subsurface materials encountered.

In-situ moisture-content, dry density, consolidation, direct shear, and sieve analysis tests were completed for the undisturbed samples representative of the subsurface material. Expansion index and R-Value tests were completed for select bag samples obtained from the auger cuttings. These tests, supplemented by visual observation, comprised the basis for our evaluation of the site material.

The log of the exploratory borings and laboratory determinations is presented in this Appendix.

UNIFIED SOIL CLASSIFICATION SYSTEM

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART

COARSE-GRAINED SOILS (more than 50% of material is larger than No. 200 sieve size.)			
GRAVELS More than 50% of coarse fraction larger than No. 4 sieve size	Clean Gravels (Less than 5% fines)	GW	Well-graded gravels, gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
	Gravels with fines (More than 12% fines)	GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
SANDS 50% or more of coarse fraction smaller than No. 4 sieve size	Clean Sands (Less than 5% fines)	SW	Well-graded sands, gravelly sands, little or no fines
		SP	Poorly graded sands, gravelly sands, little or no fines
	Sands with fines (More than 12% fines)	SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS (50% or more of material is smaller than No. 200 sieve size.)			
SILTS AND CLAYS Liquid limit less than 50%		ML	Inorganic silts and very fine sands, rock flour, silty of clayey fine sands or clayey silts with slight plasticity
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		OL	Organic silts and organic silty clays of low plasticity
SILTS AND CLAYS Liquid limit 50% or greater		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS		PT	Peat and other highly organic soils

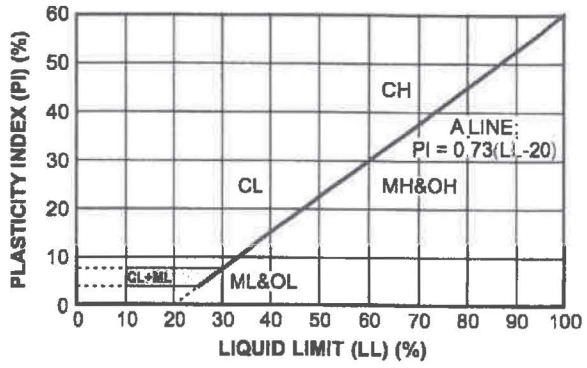
CONSISTENCY CLASSIFICATION

Description	Blows per Foot
Granular Soils	
Very Loose	< 5
Loose	5 – 15
Medium Dense	16 – 40
Dense	41 – 65
Very Dense	> 65
Cohesive Soils	
Very Soft	< 3
Soft	3 – 5
Firm	6 – 10
Stiff	11 – 20
Very Stiff	21 – 40
Hard	> 40

GRAIN SIZE CLASSIFICATION

Grain Type	*Standard Sieve Size*	*Grain Size in Millimeters*
Boulders	Above 12 inches	Above 305
Cobbles	12 to 13 inches	305 to 76.2
Gravel	3 inches to No. 4	76.2 to 4.76
Coarse-grained	3 to ¾ inches	76.2 to 19.1
Fine-grained	¾ inches to No. 4	19.1 to 4.76
Sand	No. 4 to No. 200	4.76 to 0.074
Coarse-grained	No. 4 to No. 10	4.76 to 2.00
Medium-grained	No. 10 to No. 40	2.00 to 0.042
Fine-grained	No. 40 to No. 200	0.042 to 0.074
Silt and Clay	Below No. 200	Below 0.074

PLASTICITY CHART



California Modified Split Spoon Sampler

Standard Penetration Split Spoon Sampler

Log of Boring B1

Project: Dutch Bros.

Project No: 112-21146

Client: Dutch Bros, LLC

Figure No.: A-1

Location: 22115 Barton Road, Grand Terrace, California

Logged By: Gabriel Ramirez

Depth to Water> Not Encountered

Initial: N/A

At Completion: N/A

Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.
0		Ground Surface				
0		***SANDY SILT (ML)*** Very loose, fine- to medium-grained; dark brown, moist, drills easily Medium dense below 12 inches				
2						20
4						
6			119.3	14.5		30
8						
10			117.2	16.9		28
12						
14		***SILTY SAND (SM)*** Medium dense, fine- to medium-grained; dark brown, moist, drills easily		11.0		15
16						
18		Water not encountered Boring backfilled with soil cuttings				
20				11.2		26

Penetration Test blows/ft: 20, 40, 60

Water Content (%): 10, 20, 30, 40

Drill Method: Hollow Stem

Drill Date: 1-4-22

Drill Rig: CME 75

Krazan and Associates

Hole Size: 5½ Inches

Driller: Whitcomb Drilling, Inc.

Elevation: 20 Feet

Sheet: 1 of 1

Log of Boring B2

Project: Dutch Bros.

Project No: 112-21146

Client: Dutch Bros, LLC

Figure No.: A-2

Location: 22115 Barton Road, Grand Terrace, California

Logged By: Gabriel Ramirez

Depth to Water> Not Encountered

Initial: N/A

At Completion: N/A

Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.
0		Ground Surface				
0		***SANDY SILT (ML)*** Very loose, fine- to medium-grained; dark brown, moist, drills easily Medium dense below 12 inches				
6			109.6	15.5		37
8		Becomes dense below 8½ feet				
10			119.6	11.9		55
10		End of Borehole				
18		Water not encountered Boring backfilled with soil cuttings				

Penetration Test blows/ft: 20, 40, 60

Water Content (%): 10, 20, 30, 40

Drill Method: Hollow Stem

Drill Date: 1-4-22

Drill Rig: CME 75

Krazan and Associates

Hole Size: 5½ Inches

Driller: Whitcomb Drilling, Inc.

Elevation: 10 Feet

Sheet: 1 of 1

Log of Boring B3

Project: Dutch Bros.

Project No: 112-21146

Client: Dutch Bros, LLC

Figure No.: A-3

Location: 22115 Barton Road, Grand Terrace, California

Logged By: Gabriel Ramirez

Depth to Water> Not Encountered

Initial: N/A

At Completion: N/A

Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.
0		Ground Surface				
0		***SANDY SILT (ML)*** Very loose, fine- to medium-grained; brown, damp, drills easily Medium dense below 12 inches				
6			110.1	9.2		21
10			131.4	3.5		23
10		End of Borehole				
18		Water not encountered Boring backfilled with soil cuttings				

Penetration Test blows/ft: 20, 40, 60

Water Content (%): 10, 20, 30, 40

Drill Method: Hollow Stem

Drill Date: 1-4-22

Drill Rig: CME 75

Krazan and Associates

Hole Size: 5½ Inches

Driller: Whitcomb Drilling, Inc.

Elevation: 10 Feet

Sheet: 1 of 1

Log of Boring B4

Project: Dutch Bros.

Project No: 112-21146

Client: Dutch Bros, LLC

Figure No.: A-4

Location: 22115 Barton Road, Grand Terrace, California

Logged By: Gabriel Ramirez

Depth to Water> Not Encountered

Initial: N/A

At Completion: N/A

Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.
0		Ground Surface				
0		***SANDY SILT (ML)*** Very loose, fine- to medium-grained; dark brown, moist, drills easily Loose below 12 inches				
6			115.3	9.1		11
8		Becomes medium dense below 8½ feet				
10			117.7	9.6		20
10		End of Borehole				
18		Water not encountered Boring backfilled with soil cuttings				

Penetration Test blows/ft: 20, 40, 60

Water Content (%): 10, 20, 30, 40

Drill Method: Hollow Stem

Drill Date: 1-4-22

Drill Rig: CME 75

Krazan and Associates

Hole Size: 5½ Inches

Driller: Whitcomb Drilling, Inc.

Elevation: 10 Feet

Sheet: 1 of 1

Log of Boring B5

Project: Dutch Bros.

Project No: 112-21146

Client: Dutch Bros, LLC

Figure No.: A-5

Location: 22115 Barton Road, Grand Terrace, California

Logged By: Gabriel Ramirez

Depth to Water> Not Encountered

Initial: N/A

At Completion: N/A

Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.
0		Ground Surface				
0		***SANDY SILT (ML)*** Very loose, fine- to medium-grained; brown, damp, drills easily Loose below 12 inches				
6			115.1	7.3	■	12
8		Becomes medium dense and moist below 8½ feet				
10			117.1	13.1	■	16
10		End of Borehole				
18		Water not encountered Boring backfilled with soil cuttings				

Penetration Test blows/ft: 20 40 60

Water Content (%): 10 20 30 40

Drill Method: Hollow Stem

Drill Date: 1-4-22

Drill Rig: CME 75

Krazan and Associates

Hole Size: 5½ Inches

Driller: Whitcomb Drilling, Inc.

Elevation: 10 Feet

Sheet: 1 of 1

Log of Boring B6

Project: Dutch Bros.

Project No: 112-21146

Client: Dutch Bros, LLC

Figure No.: A-6

Location: 22115 Barton Road, Grand Terrace, California

Logged By: Gabriel Ramirez

Depth to Water> Not Encountered **Initial:** N/A **At Completion:** N/A

SUBSURFACE PROFILE			SAMPLE				Penetration Test blows/ft	Water Content (%)
Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.	20 40 60	10 20 30 40
0		Ground Surface						
0		***SANDY SILT (ML)*** Very loose, fine- to medium-grained; brown, damp, drills easily Medium dense below 12 inches						
6			116.2	7.2		23		
10			120.9	10.7		24		
10		End of Borehole						
18		Water not encountered Boring backfilled with soil cuttings						

Drill Method: Hollow Stem

Drill Date: 1-4-22

Drill Rig: CME 75

Krazan and Associates

Hole Size: 5½ Inches

Driller: Whitcomb Drilling, Inc.

Elevation: 10 Feet

Sheet: 1 of 1

Sieve Analysis

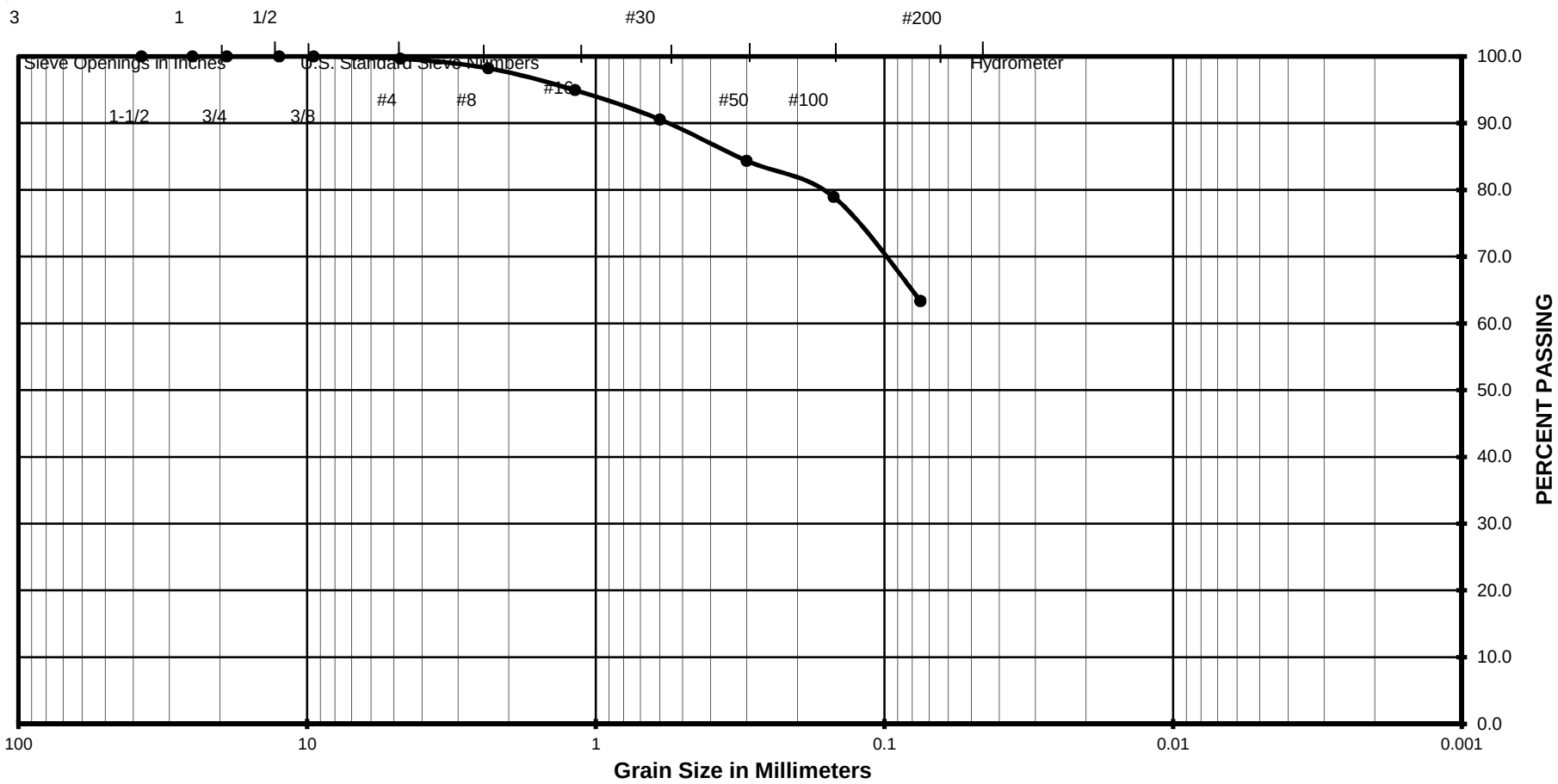
Project Number	:	11221146
Project Name	:	Dutch Bros Grand Terrace
Date	:	1/31/2022
Sample Location	:	B-1 @ 5'
Soil Classification	:	ML

Wet Weight	:	714.50
Dry Weight	:	714.50
Moisture Content	:	0%

Sieves Size/Number	Sieve Size, mm	Retained Weight	Retained. %	Cum % Retained	Cum. % Passing.
1-1/2"	37.50				100.0
1"	25.00				100.0
3/4"	19.00				100.0
1/2"	12.50				100.0
3/8"	9.50				100.0
#4	4.75	2.4	0.3	0.3	99.7
#8	2.36	10.2	1.4	1.8	98.2
#16	1.18	23.5	3.3	5.1	94.9
#30	0.60	31.3	4.4	9.4	90.6
#50	0.30	44.3	6.2	15.6	84.4
#100	0.15	38.5	5.4	21.0	79.0
#200	0.08	111.4	15.6	36.6	63.4

Krazan Testing Laboratory

Grain Size Analysis



Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Dutch Bros Grand Terrace
Project Number	11221146
Soil Classification	ML
Sample Number	B-1 @ 5'

Krazan Testing Laboratory

Sieve Analysis

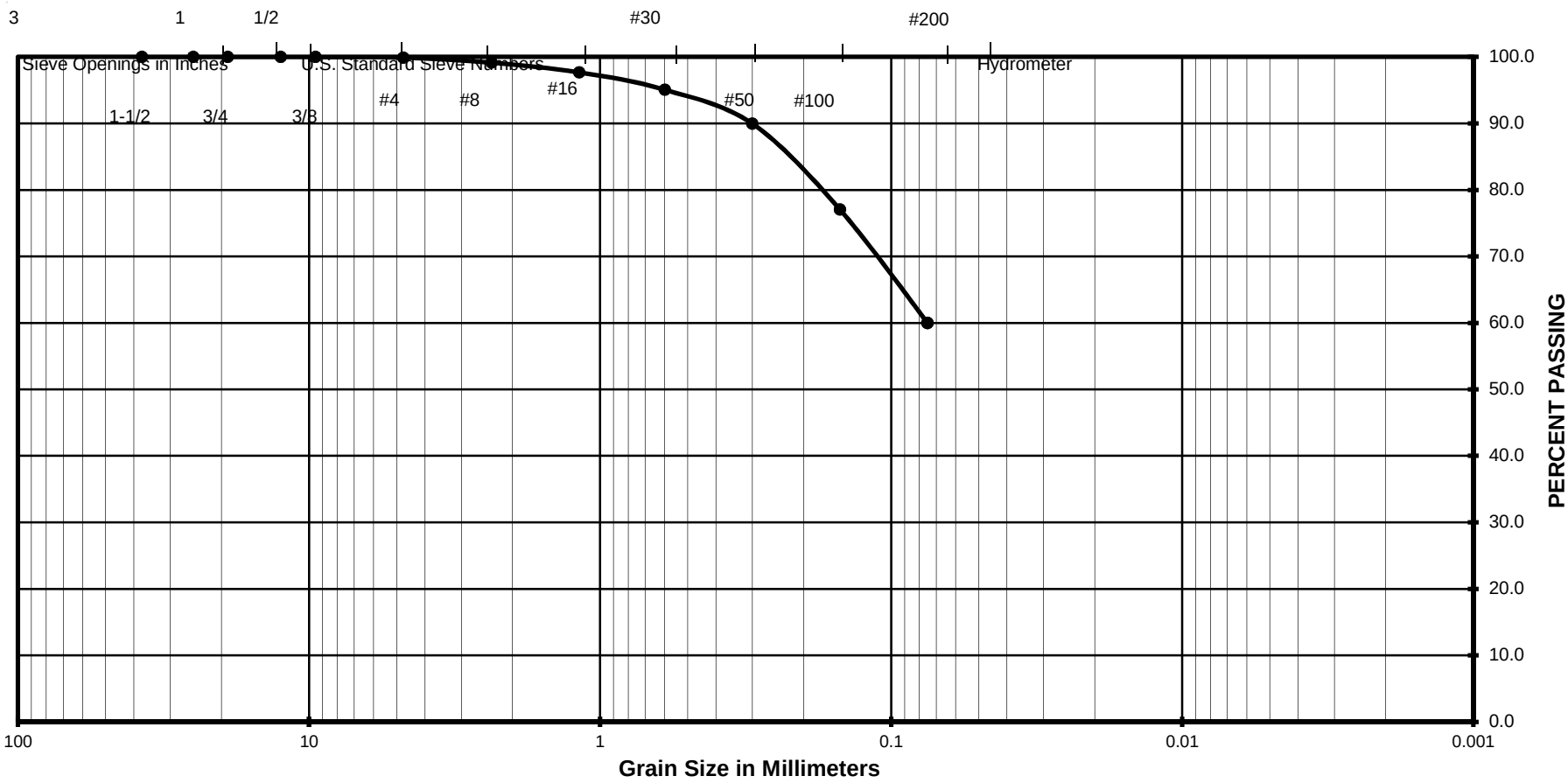
Project Number	:	11221146
Project Name	:	Dutch Bros Grand Terrace
Date	:	1/31/2022
Sample Location	:	B-1 @ 10'
Soil Classification	:	ML

Wet Weight	:	662.00
Dry Weight	:	662.00
Moisture Content	:	0%

Sieves Size/Number	Sieve Size, mm	Retained Weight	Retained. %	Cum % Retained	Cum. % Passing.
1-1/2"	37.50				100.0
1"	25.00				100.0
3/4"	19.00				100.0
1/2"	12.50				100.0
3/8"	9.50				100.0
#4	4.75	0.8	0.1	0.1	99.9
#8	2.36	5.0	0.8	0.9	99.1
#16	1.18	9.6	1.5	2.3	97.7
#30	0.60	17.3	2.6	4.9	95.1
#50	0.30	33.8	5.1	10.0	90.0
#100	0.15	85.5	12.9	23.0	77.0
#200	0.08	112.9	17.1	40.0	60.0

Krazan Testing Laboratory

Grain Size Analysis



Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Dutch Bros Grand Terrace
Project Number	11221146
Soil Classification	ML
Sample Number	B-1 @ 10'

Krazan Testing Laboratory

Sieve Analysis

Project Number	:	11221146
Project Name	:	Dutch Bros Grand Terrace
Date	:	1/31/2022
Sample Location	:	B-1 @ 15'
Soil Classification	:	SM

Wet Weight	:	479.90
Dry Weight	:	479.90
Moisture Content	:	0%

Sieves Size/Number	Sieve Size, mm	Retained Weight	Retained. %	Cum % Retained	Cum. % Passing.
1-1/2"	37.50				100.0
1"	25.00				100.0
3/4"	19.00				100.0
1/2"	12.50				100.0
3/8"	9.50	2.1	0.4	0.4	99.6
#4	4.75	5.8	1.2	1.6	98.4
#8	2.36	34.2	7.1	8.8	91.2
#16	1.18	60.5	12.6	21.4	78.6
#30	0.60	63.8	13.3	34.7	65.3
#50	0.30	66.7	13.9	48.6	51.4
#100	0.15	53.7	11.2	59.8	40.2
#200	0.08	44.7	9.3	69.1	30.9

Krazan Testing Laboratory

Grain Size Analysis



Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Dutch Bros Grand Terrace
Project Number	11221146
Soil Classification	SM
Sample Number	B-1 @ 15'

Krazan Testing Laboratory

Sieve Analysis

Project Number	:	11221146
Project Name	:	Dutch Bros Grand Terrace
Date	:	1/31/2022
Sample Location	:	B-1 @ 20'
Soil Classification	:	SM

Wet Weight	:	479.50
Dry Weight	:	479.50
Moisture Content	:	0%

Sieves Size/Number	Sieve Size, mm	Retained Weight	Retained. %	Cum % Retained	Cum. % Passing.
1-1/2"	37.50				100.0
1"	25.00				100.0
3/4"	19.00				100.0
1/2"	12.50				100.0
3/8"	9.50	3.9	0.8	0.8	99.2
#4	4.75	7.5	1.6	2.4	97.6
#8	2.36	28.3	5.9	8.3	91.7
#16	1.18	46.7	9.7	18.0	82.0
#30	0.60	52.0	10.8	28.9	71.1
#50	0.30	52.9	11.0	39.9	60.1
#100	0.15	31.6	6.6	46.5	53.5
#200	0.08	62.6	13.1	59.5	40.5

Krazan Testing Laboratory

Grain Size Analysis



Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Dutch Bros Grand Terrace
Project Number	11221146
Soil Classification	SM
Sample Number	B-1 @ 20'

Krazan Testing Laboratory

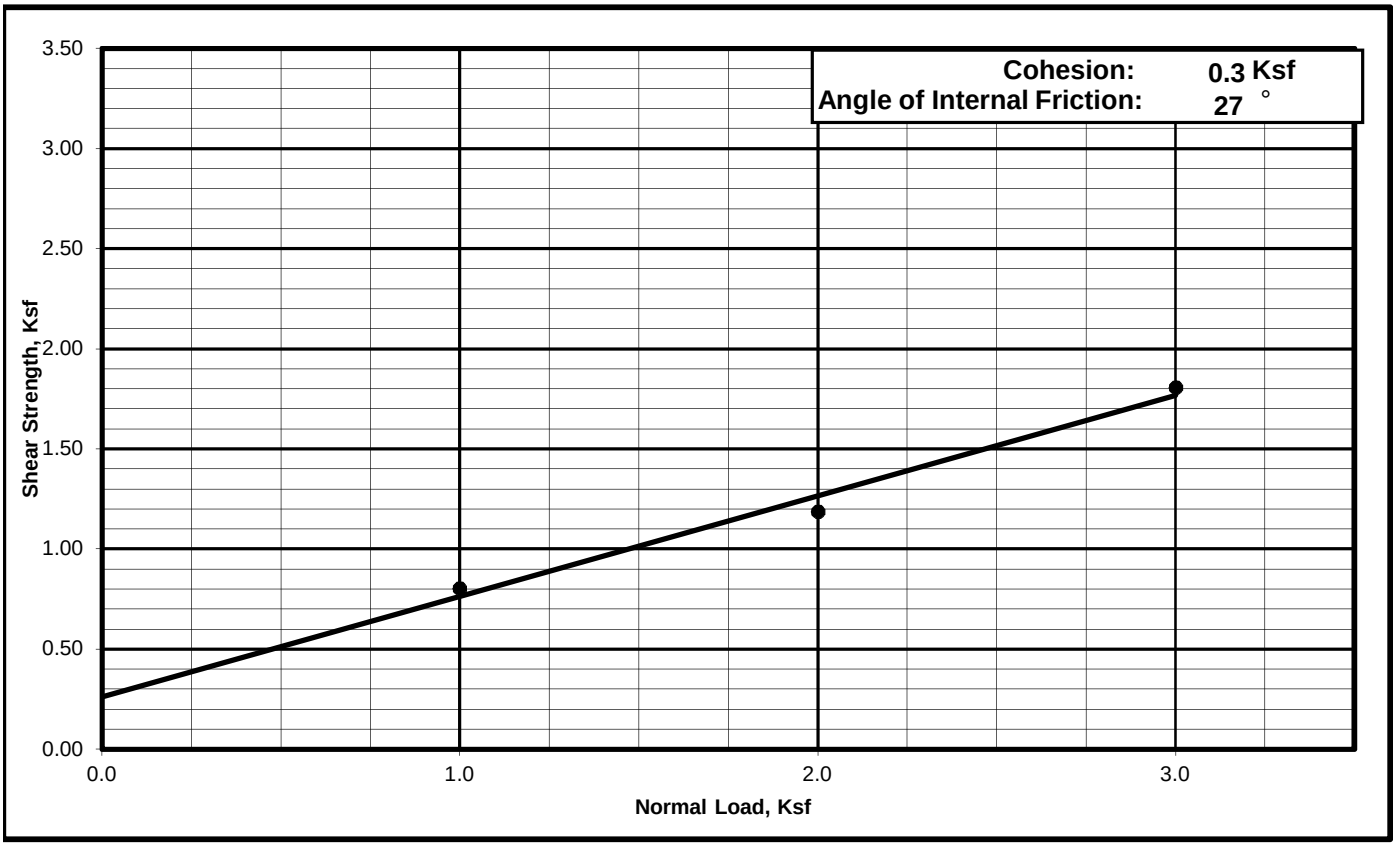
Direct Shear of Consolidated, Drained Soils
ASTM D - 3080 / AASHTO T - 236

Project Number	: 11221146
Project Name	: Dutch Bros Grand Terrace
Date	: 1/31/2022
Sample Location	: B-1 @ 5'
Soil Classification	: ML
Sample Surface Area	: 0.0289

STRESS DISPLACEMENT DATA

Lat. Disp. (in.)	Normal Load		
	1000	2000	3000
0	0	0	0
0.030	13.5	44.9	64.9
0.060	24.5	56.8	84.6
0.090	39.4	69.3	100
0.120	44.8	73.5	121.8
0.150	51.6	88.4	132.4
0.180	56.9	96.4	139.5
0.210	59.2	103.6	144.5
0.240	70	105.6	159.6
0.270	61	103.6	162
0.300			160
0.330			
0.360			

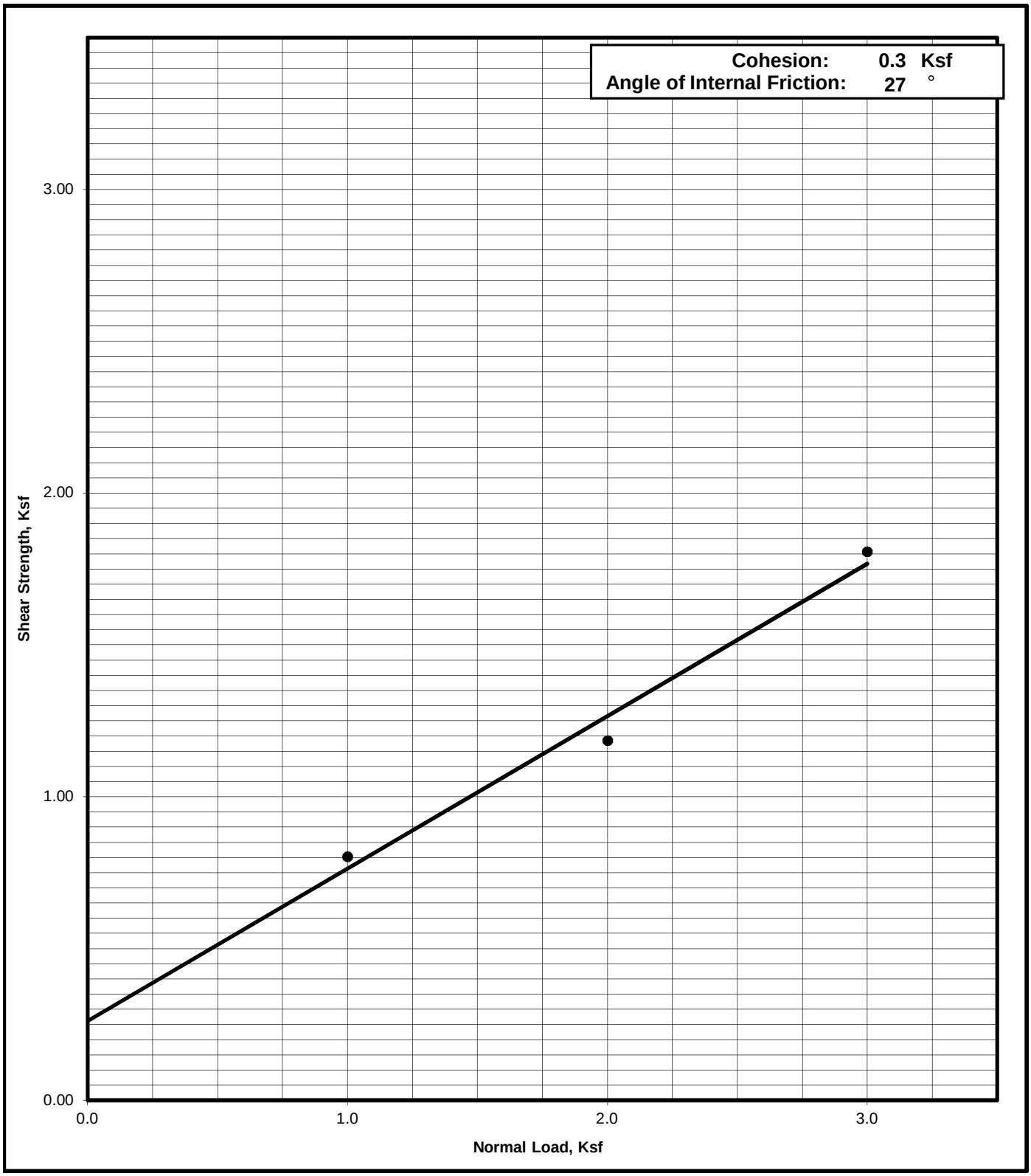
Normal Load psf	Shear force lbs	Shear Stress psf
1000	23.2	803
2000	34.3	1185
3000	52.2	1807



Krazan Testing Laboratory

Shear Strength Diagram (Direct Shear)
ASTM D - 3080 / AASHTO T - 236

Project Number	Boring No. & Depth	Soil Type	Date
11221146	B-1 @ 5'	ML	1/31/2022



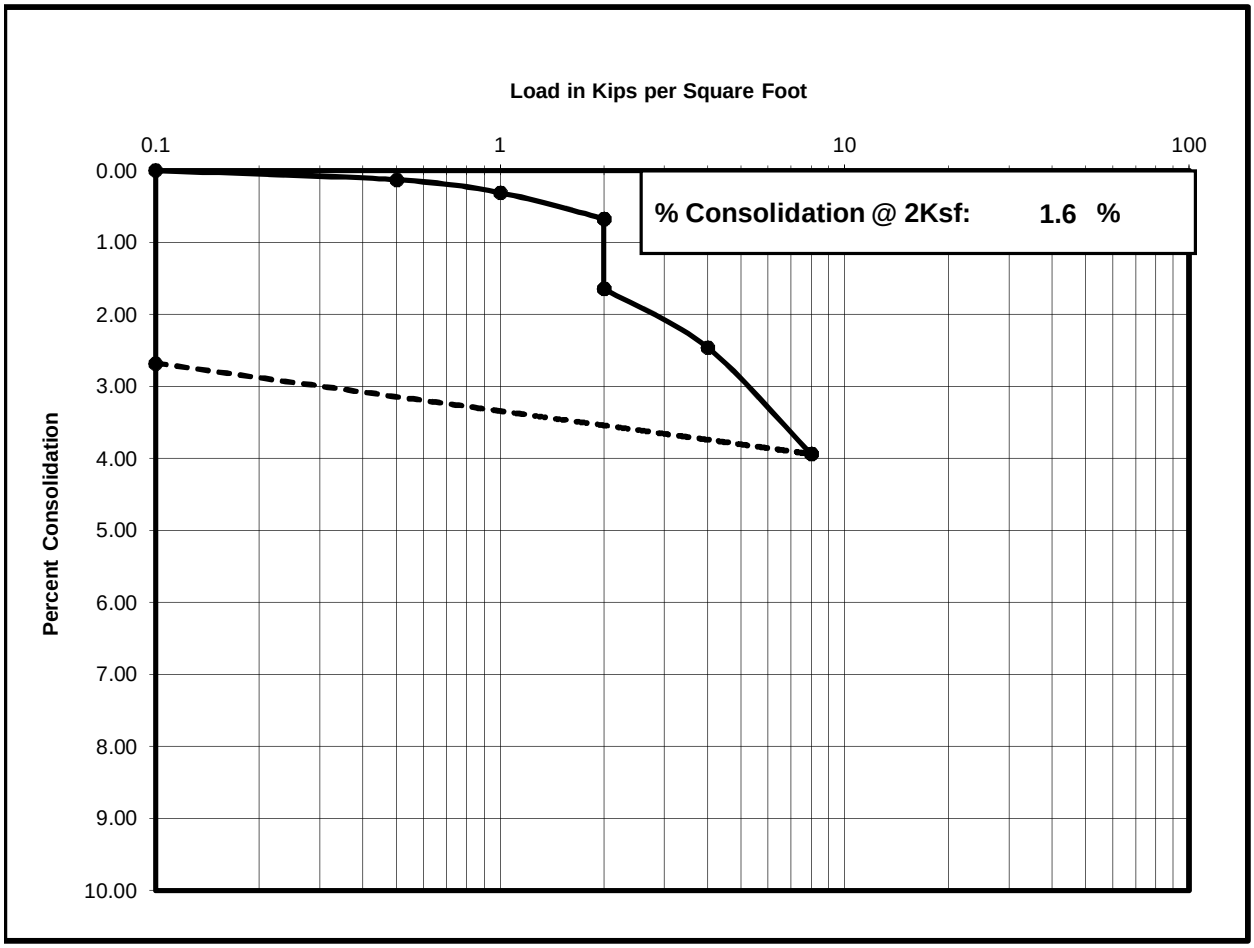
Krazan Testing Laboratory

One Dimensional Consolidation Properties of Soil

ASTM D - 2435 / AASHTO T - 216

Project Number : 11221146
Project Name : Dutch Bros Grand Terrace
Date : 1/31/2022
Sample Location : B-1 @ 5'
Soil Classification : ML
Sample Condition : Undisturbed

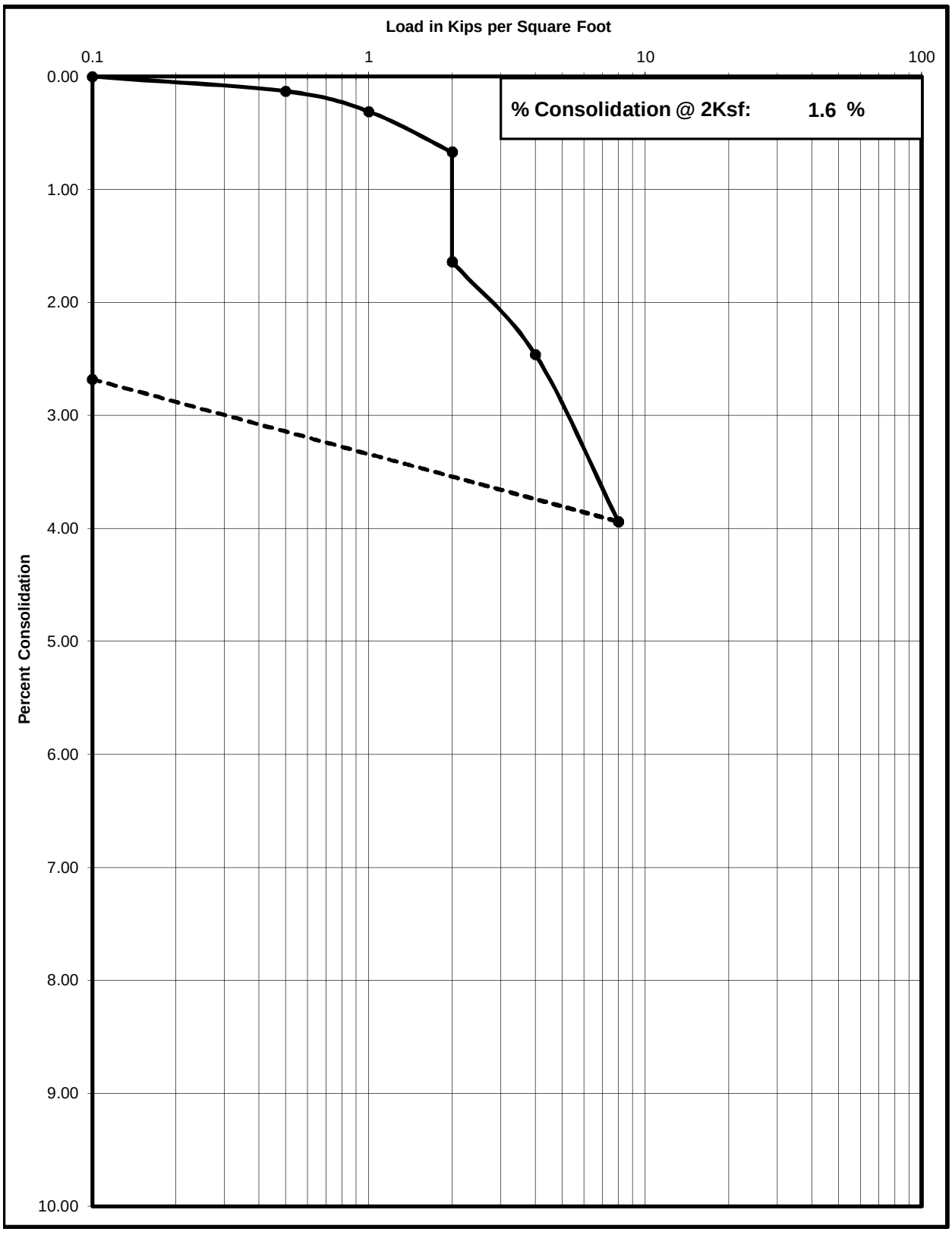
LOAD (ksf)	Reading	% Consolidation
0.1	0	--
0.5	0.0013	0.13
1	0.0031	0.31
2	0.0067	0.67
Satur.	0.0164	1.64
4	0.0246	2.46
8	0.0394	3.94
0.1	0.0268	2.68



Krazan Testing Laboratory

Consolidation Test

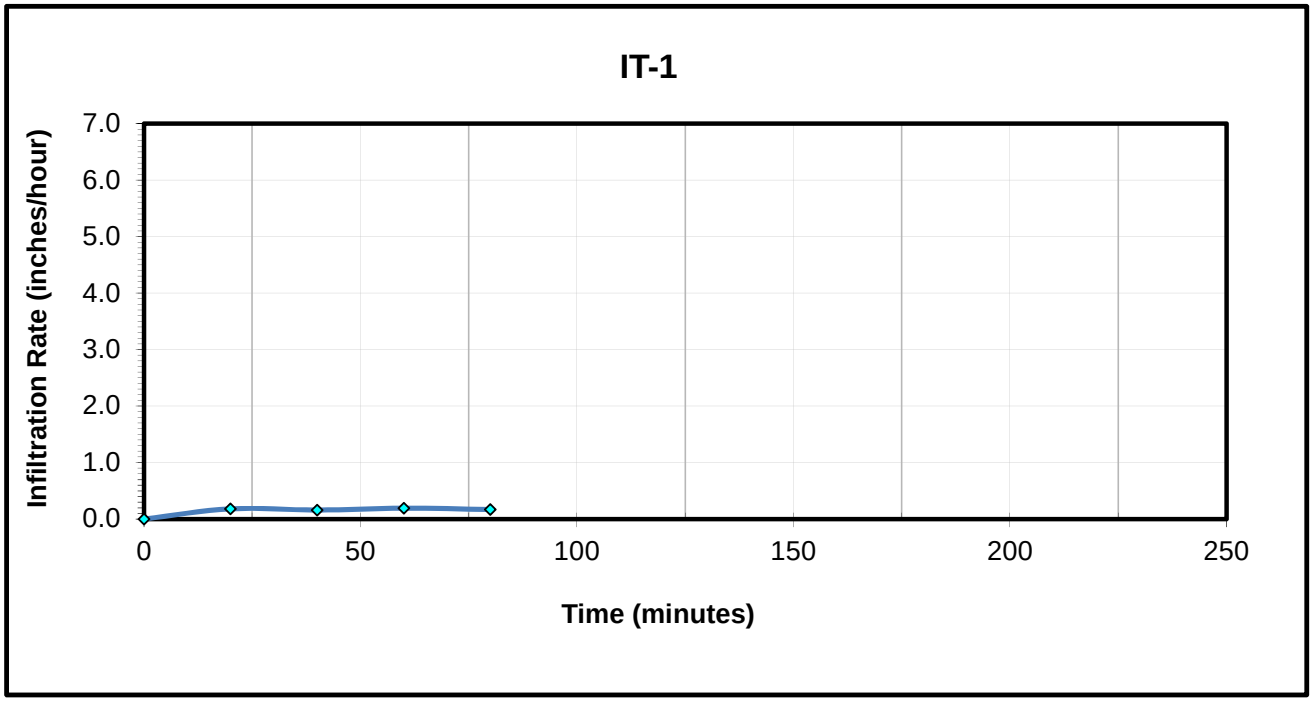
Project No	Boring No. & Depth	Date	Soil Classification
11221146	B-1 @ 5'	1/31/2022	ML



Krazan Testing Laboratory

RESULTS OF INFILTRATION TESTS - REVERSE BOREHOLE						
Project #	**11220146**				**Date**	**1/5/2022**
Project Name	Dutch Bros Grand Terrace					
Project Address	22115 Barton Road, Grand Terrace, CA					
Test No:	IT-1	**Total Depth (in.)**		60	**Test Size (in)**	8
Depth To Water	>50'	**Soil Classification**		SM		

Reading	Elasped Time(min.)	Incremental Time (min.)	Initial Depth To Water(in.)	Final Depth To Water(in.)	Incremental Fall of Water(in.)	Incremental Infiltration Rate (in/hr)
Start	0	0.00		3.00	--	--
1	20.00	20.00	3.00	4.75	1.75	0.18
2	40.00	20.00	4.75	6.25	1.50	0.16
3	60.00	20.00	6.25	8.00	1.75	0.19
4	80.00	20.00	8.00	9.50	1.50	0.17
5	100.00	20.00	9.50	11.00	1.50	0.17
6	120.00	20.00	11.00	12.50	1.50	0.18
7	140.00	20.00	12.50	14.00	1.50	0.18
8	160.00	20.00	14.00	15.50	1.50	0.19
	Infiltration Rate in Inches per Hour					**0.16**



ANAHEIM TEST LAB, INC

196 Technology Drive, Unit D
Irvine, CA 92618
Phone (949)336-6544

DATE: 1/18/2022

Krazan & Associates, Inc.
1100 Olympic Drive, Ste. 103
Corona, CA 92888

P.O. NO: Verbal

LAB NO: C-5594

SPECIFICATION: CTM-643/417/422

MATERIAL: Soil

Project No: 11221146
Project Name: Dutch Bros, Grand Terrace
Sample ID: B-1 @ 0-5'

ANALYTICAL REPORT

CORROSION SERIES
SUMMARY OF DATA

pH	MIN. RESISTIVITY per CT. 643 ohm-cm	SOLUBLE SULFATES per CT. 417 ppm	SOLUBLE CHLORIDES per CT. 422 ppm
7.5	2,960	115	47

RESPECTFULLY SUBMITTED

WES BRIDGER LAB MANAGER

Appendix B

General Earthwork Specifications

APPENDIX B

EARTHWORK SPECIFICATIONS

GENERAL

When the text of the report conflicts with the general specifications in this appendix, the recommendations in the report have precedence.

SCOPE OF WORK: These specifications and applicable plans pertain to and include all earthwork associated with the site rough grading, including but not limited to the furnishing of all labor, tools, and equipment necessary for site clearing and grubbing, stripping, preparation of foundation materials for receiving fill, excavation, processing, placement and compaction of fill and backfill materials to the lines and grades shown on the project grading plans, and disposal of excess materials.

PERFORMANCE: The Contractor shall be responsible for the satisfactory completion of all earthwork in accordance with the project plans and specifications. This work shall be inspected and tested by a representative of Krazan and Associates, Inc., hereinafter known as the Soils Engineer and/or Testing Agency. Attainment of design grades when achieved shall be certified by the project Civil Engineer. Both the Soils Engineer and the Civil Engineer are the Owner's representatives. If the Contractor should fail to meet the technical or design requirements embodied in this document and on the applicable plans, he shall make the necessary readjustments until all work is deemed satisfactory as determined by both the Soils Engineer and the Civil Engineer. No deviation from these specifications shall be made except upon written approval of the Soils Engineer, Civil Engineer or project Architect.

No earthwork shall be performed without the physical presence or approval of the Soils Engineer. The Contractor shall notify the Soils Engineer at least 2 working days prior to the commencement of any aspect of the site earthwork.

The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner and the Engineers harmless from any and all liability, real or alleged, in connection with the performance of work on this project, except for liability arising from the sole negligence of the Owner or the Engineers.

TECHNICAL REQUIREMENTS: All compacted materials shall be densified to a density not less than 95 percent relative compaction based on ASTM Test Method D1557 or CAL-216, as specified in the technical portion of the Soil Engineer's report. The location and frequency of field density tests shall be as determined by the Soils Engineer. The results of these tests and compliance with these specifications shall be the basis upon which satisfactory completion of work will be judged by the Soils Engineer.

SOILS AND FOUNDATION CONDITIONS: The Contractor is presumed to have visited the site and to have familiarized himself with existing site conditions and the contents of the data presented in the soil report.

The Contractor shall make his own interpretation of the data contained in said report, and the Contractor shall not be relieved of liability under the Contract documents for any loss sustained as a result of any variance between conditions indicated by or deduced from said report and the actual conditions encountered during the progress of the work.

DUST CONTROL: The work includes dust control as required for the alleviation or prevention of any dust nuisance on or about the site or the borrow area, or off-site if caused by the Contractor's operation either during the performance of the earthwork or resulting from the conditions in which the Contractor leaves the site. The Contractor shall assume all liability, including court costs of codefendants, for all claims related to dust or windblown materials attributable to his work.

SITE PREPARATION

Site preparation shall consist of site clearing and grubbing and the preparations of foundation materials for receiving fill.

CLEARING AND GRUBBING: The Contractor shall accept the site in this present condition and shall demolish and/or remove from the area of designated project earthwork all structures, both surface and subsurface, trees, brush, roots, debris, organic matter, and all other matter determined by the Soils Engineer to be deleterious or otherwise unsuitable. Such materials shall become the property of the Contractor and shall be removed from the site.

Tree root systems in proposed building areas should be removed to a minimum depth of 3 feet and to such an extent which would permit removal of all roots larger than 1 inch. Tree roots removed in parking areas may be limited to the upper 1½ feet of the ground surface. Backfill of tree root excavations should not be permitted until all exposed surfaces have been inspected and the Soils Engineer is present for the proper control of backfill placement and compaction. Burning in areas which are to receive fill materials shall not be permitted.

SUBGRADE PREPARATION: Surfaces to receive Engineered Fill, building or slab loads shall be prepared as outlined above, excavated/scarified to a depth of 12 inches, moisture-conditioned as necessary, and compacted to 95 percent relative compaction.

Loose soil areas, areas of uncertified fill, and/or areas of disturbed soils shall be moisture-conditioned as necessary and recompacted to 95 percent relative compaction. All ruts, hummocks, or other uneven surface features shall be removed by surface grading prior to placement of any fill materials. All areas which are to receive fill materials shall be approved by the Soils Engineer prior to the placement of any of the fill material.

EXCAVATION: All excavation shall be accomplished to the tolerance normally defined by the Civil Engineer as shown on the project grading plans. All over-excavation below the grades specified shall be backfilled at the Contractor's expense and shall be compacted in accordance with the applicable technical requirements.

FILL AND BACKFILL MATERIAL: No material shall be moved or compacted without the presence of the Soils Engineer. Material from the required site excavation may be utilized for construction site fills provided prior approval is given by the Soils Engineer. All materials utilized for constructing site fills shall be free from vegetation or other deleterious matter as determined by the Soils Engineer.

PLACEMENT, SPREADING AND COMPACTION: The placement and spreading of approved fill materials and the processing and compaction of approved fill and native materials shall be the responsibility of the Contractor. However, compaction of fill materials by flooding, ponding, or jetting shall not be permitted unless specifically approved by local code, as well as the Soils Engineer.

Both cut and fill areas shall be surface-compacted to the satisfaction of the Soils Engineer prior to final acceptance.

SEASONAL LIMITS: No fill material shall be placed, spread, or rolled while it is frozen or thawing or during unfavorable wet weather conditions. When the work is interrupted by heavy rains, fill operations shall not be resumed until the Soils Engineer indicates that the moisture-content and density of previously placed fill are as specified.

Appendix C

General Paving Specifications

APPENDIX C

PAVEMENT SPECIFICATIONS

1. DEFINITIONS - The term "pavement" shall include asphalt concrete surfacing, untreated aggregate base, and aggregate subbase. The term "subgrade" is that portion of the area on which surfacing, base, or subbase is to be placed.

The term “Standard Specifications”: hereinafter referred to as the January 1999 Standard Specifications of the State of California, Department of Transportation, and the "Materials Manual" is the Materials Manual of Testing and Control Procedures, State of California, Department of Public Works, Division of Highways. The term "relative compaction" refers to the field density expressed as a percentage of the maximum laboratory density as defined in the ASTM D1557-00.

2. SCOPE OF WORK - This portion of the work shall include all labor, materials, tools, and equipment necessary for, and reasonably incidental to the completion of the pavement shown on the plans and as herein specified, except work specifically notes as "Work Not Included."

3. PREPARATION OF THE SUBGRADE - The Contractor shall prepare the surface of the various subgrades receiving subsequent pavement courses to the lines, grades, and dimensions given on the plans. The upper 12 inches of the soil subgrade beneath the pavement section shall be compacted to a minimum relative compaction of 90 percent. The finished subgrades shall be tested and approved by the Geotechnical Engineer prior to the placement of additional pavement courses.

4. UNTREATED AGGREGATE BASE - The aggregate base material shall be spread and compacted on the prepared subgrade in conformity with the lines, grades, and dimensions shown on the plans. The aggregate base material shall conform to the requirements of Section 26 of the Standard Specifications for Class 2 material, ¾-inches maximum size. The aggregate base material shall be compacted to a minimum relative compaction of 95 percent. The aggregate base material shall be spread and compacted in accordance with Section 26 of the Standard Specifications. The aggregate base material shall be spread in layers not exceeding 6 inches and each layer of aggregate material course shall be tested and approved by the Geotechnical Engineer prior to the placement of successive layers.

5. AGGREGATE SUBBASE - The aggregate subbase shall be spread and compacted on the prepared subgrade in conformity with the lines, grades, and dimensions shown on the plans. The aggregate subbase material shall conform to the requirements of Section 25 of the Standard Specifications for Class II material. The aggregate subbase material shall be compacted to a minimum relative compaction of 95 percent, and it shall be spread and compacted in accordance with Section 25 of the Standard Specifications. Each layer of aggregate subbase shall be tested and approved by the Geotechnical Engineer prior to the placement of successive layers.

6. ASPHALT CONCRETE SURFACING - Asphalt concrete surfacing shall consist of a mixture of mineral aggregate and paving grade asphalt, mixed at a central mixing plant and spread and compacted on a prepared base in conformity with the lines, grades, and dimensions shown on the plans. The viscosity grade of the asphalt shall be AR-8000. The mineral aggregate shall be Type B, ½-inch or ¾-inch maximum, medium grading, for the wearing course and ¾-inch maximum, medium grading for the base course, and shall conform to the requirements set forth in Section 39 of the Standard Specifications. The drying, proportioning, and mixing of the materials shall conform to Section 39.

The prime coat, spreading and compacting equipment, and spreading and compacting the mixture shall conform to the applicable chapters of Section 39, with the exception that no surface course shall be placed when the atmospheric temperature is below 50 degrees F. The surfacing shall be rolled with a combination steel-wheel and pneumatic rollers, as described in Section 39-6. The surface course shall be placed with an approved self-propelled mechanical spreading and finishing machine.

7. FOG SEAL COAT - The fog seal (mixing type asphalt emulsion) shall conform to and be applied in accordance with the requirements of Section 37.

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FARALLON CONSULTING

Washington
Issaquah | Bellingham | Seattle
Oregon
Portland | Baker City
California
Oakland | Irvine

PHASE I
ENVIRONMENTAL SITE ASSESSMENT REPORT

22115 Barton Road
Grand Terrace, California

Submitted by:
Farallon Consulting, L.L.C.
975 5th Avenue Northwest
Issaquah, Washington 98027

Farallon PN: 2240-250

BB Holdings CA, LLC
110 Southwest 4th Street
Grants Pass, Oregon 97256

BB Holdings CA, LLC Project No. CA-5204

March 6, 2023

Prepared by:



Beth Padgett, L.G.
Associate Geologist

Reviewed by:



Charles T. Esler, CHMM
Principal Environmental Scientist

TABLE OF CONTENTS

ENVIRONMENTAL PROFESSIONAL STATEMENT iv

EXECUTIVE SUMMARY v

1.0 INTRODUCTION **1-1**
- 1.1 PROJECT AUTHORIZATION AND SCOPE OF WORK 1-1
- 1.2 PROFESSIONAL QUALIFICATIONS 1-1
- 1.3 PROJECT PURPOSE AND OBJECTIVE 1-1
- 1.4 SHELF LIFE OF ALL APPROPRIATE INQUIRIES DOCUMENTS 1-2
- 1.5 DEVIATIONS 1-3
- 1.6 DATA GAPS 1-3

2.0 SUBJECT PROPERTY OVERVIEW **2-1**
- 2.1 SUBJECT PROPERTY LOCATION 2-1
- 2.2 SUBJECT PROPERTY DESCRIPTION 2-1
- 2.3 SUBJECT PROPERTY OPERATIONS 2-1
- 2.4 ADJOINING AND SURROUNDING LAND USE 2-1

3.0 PHYSICAL SETTING **3-1**
- 3.1 TOPOGRAPHY 3-1
- 3.2 GEOLOGY AND HYDROGEOLOGY 3-1
- 3.3 OIL AND GAS RECORDS 3-2
- 3.4 SENSITIVE RECEPTORS 3-2

4.0 USER-PROVIDED INFORMATION **4-1**
- 4.1 TITLE AND LIEN RECORDS 4-1
- 4.2 EXPERIENCE AND SPECIALIZED KNOWLEDGE 4-1
- 4.3 COMMONLY KNOWN INFORMATION 4-1
- 4.4 PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT USERS 4-2
- 4.5 PREVIOUS ENVIRONMENTAL STUDIES 4-2

5.0 SUBJECT PROPERTY AND ADJOINING PROPERTY HISTORY **5-1**
- 5.1 SUBJECT PROPERTY 5-1
- 5.2 ADJOINING PROPERTIES 5-2

6.0 STATE AND LOCAL GOVERNMENT AGENCY INTERVIEWS **6-1**
- 6.1 CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SANTA ANA REGION 6-1
- 6.2 SAN BERNARDINO COUNTY ENVIRONMENTAL HEALTH SERVICES 6-1
- 6.3 CITY OF GRAND TERRACE PLANNING AND DEVELOPMENTAL SERVICES DEPARTMENT 6-1

6.4 CITY OF GRAND TERRACE FIRE DEPARTMENT 6-1
6.5 SOUTH COAST AIR QUALITY MANAGEMNT DISTRICT 6-2

7.0 RECORDS REVIEW 7-1
7.1 SUBJECT PROPERTY LISTINGS 7-1
7.2 ADJOINING FACILITY LISTINGS 7-2
7.3 SURROUNDING FACILITY LISTINGS 7-3
7.4 EDR EXCLUSIVE DATABASES 7-4
7.4.1 Historical Auto Stations 7-4
7.4.2 Historical Cleaners 7-4
7.5 UNMAPPABLE LISTINGS 7-4

8.0 SUBJECT PROPERTY INTERVIEW(S) 8-1
8.1 INTERVIEW WITH SUBJECT PROPERTY REPRESENTATIVE 8-1

9.0 SITE RECONNAISSANCE 9-1
9.1 SITE RECONNAISSANCE METHODOLOGY 9-1
9.1.1 Limiting Conditions 9-1
9.2 INTERIOR OBSERVATIONS 9-1
9.2.1 Interior Observation Comments 9-2
9.3 EXTERIOR OBSERVATIONS 9-3
9.3.1 Exterior Observation Comments 9-4

10.0 ADDITIONAL SERVICES 10-1
10.1 RADON 10-1
10.2 ASBESTOS 10-1
10.3 LEAD-BASED PAINT 10-2
10.4 CHRONIC WATER INFILTRATION 10-2

11.0 FINDINGS AND OPINIONS 11-1

12.0 CONCLUSIONS 12-1

13.0 BIBLIOGRAPHY 13-1

14.0 LIMITATIONS 14-1
14.1 GENERAL LIMITATIONS 14-1
14.2 LIMITATION ON RELIANCE BY THIRD PARTIES 14-1

FIGURES

Figure 1 *Subject Property Vicinity Map*

Figure 2 *Subject Property Plan*

APPENDICES

Appendix A Professional Qualifications

Appendix B Subject Property Photographs

Appendix C User Questionnaire and Environmental Lien Search

Appendix D Historical Aerial Photographs

Appendix E Environmental Database Report

Appendix F Asbestos Survey Report

Appendix G Lead Based Paint Summary Letter

ENVIRONMENTAL PROFESSIONAL STATEMENT

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as established in Part 312.10 of Title 40 of the Code of Federal Regulations (40 CFR 312.10) and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

Name	Beth Padgett, L.G.	Name	Charles T. Esler, CHMM
Title	Associate Geologist	Title	Principal Environmental Scientist

EXECUTIVE SUMMARY

Farallon Consulting, L.L.C. (Farallon) has prepared this Phase I Environmental Site Assessment (ESA) Report for the property at 22115 Barton Road in Grand Terrace, California (herein referred to as the Subject Property). The Phase I ESA was conducted by Beth Padgett and was reviewed and approved by Charles T. Esler. The Phase I ESA Report was prepared for BB Holdings CA, LLC, an Oregon limited liability company; DB Franchising USA, LLC, an Oregon limited liability company; Dutch Bros., LLC, an Oregon limited liability company; Dutch Mafia, LLC, an Oregon limited liability company; Boersma Bros. LLC, an Oregon limited liability company; and Dutch Bros Inc., a Delaware Corporation (User) in accordance with ASTM International Standard E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E1527-21). There were no deviations from ASTM E1527-21 during this Phase I ESA, with the exception of additional services requested by the User. This Phase I ESA also satisfies the requirements of ASTM E1527-21.

Limiting conditions encountered during this Phase I ESA were the presence of motor vehicles on exterior portions of the Subject Property that prevented Farallon from observing the entire ground surface of the Subject Property, and the presence of furniture and equipment in the Subject Property building that prevented Farallon from observing entire interior floor surfaces. Additionally, the southern portion of the Subject Property was overgrown with natural vegetation. Based on information obtained from the Subject Property representative, these limiting conditions are not expected to affect the conclusions of this Phase I ESA Report.

The Subject Property consists of a portion of San Bernardino County Parcel No. 1167-231-10-0000, the entire San Bernardino County Parcel No. 1167-231-11-0000, and a portion of land that was previously owned by the City of Grand Terrace and recently sold to be developed as part of the Subject Property. The Subject Property totals 0.74 acre of land developed with a single-story 1,280-square-foot auto repair shop that was constructed in 1966. Remaining areas of the Subject Property consist of a paved parking lot and overgrown natural vegetation. The Subject Property building is occupied by GT Pit Stop. The western portion of the Subject Property building is used as office space. The eastern portion of the Subject Property building is an auto repair shop and used for oil changes, brake jobs, vehicle tune ups, and general automotive repair. According to the Subject Property representative, GT Pit Stop has occupied the Subject Property since at least 2018. Based on Farallon's review of the California State Water Resource Control Board GeoTracker database (GeoTracker database), groundwater is expected to be encountered at depths of approximately 140 to 170 feet below ground surface and flow to the south-southwest.

At the time of the site reconnaissance, Farallon's interior observations included several approximately 3- to 5-gallon new oil containers that were observed in the office area of the Subject Property building. New batteries and other automotive-related chemicals were stored in containers of 1 gallon or less, were observed to be stored in the office area of the Subject Property. De minimis staining was observed throughout the office area. Farallon observed significant petroleum staining throughout the auto repair shop. The staining appeared to be related to releases of fluids from motor vehicles, and from the storage and handling of maintenance-related products. Farallon

observed patched concrete in the auto repair shop that appeared to be from a former clarifier. Farallon observed two aboveground vehicle lifts. According to the Subject Property representative, the hydraulic equipment for the lifts and racks is aboveground, and no in-ground hydraulic equipment is present. No staining or evidence of release was observed on or around the hydraulic equipment. A former in-ground piston lift was located in the auto repair shop and appeared abandoned. The Subject Property representative did not have additional information regarding this feature.

Farallon observed hazardous waste that included various 35- and 55-gallon drums of used vehicle maintenance-related materials, including oils, coolants, used oil filters, and oily rags, in the hazardous waste storage area in the southeastern portion of the auto repair shop. Several 5-gallon buckets were observed to contain metal shavings from a lathe stored in the hazardous waste storage area. Secondary containment was observed surrounding the hazardous waste storage area. These materials reportedly are transported off the Subject Property for proper disposal by Cintas on a weekly basis.

At the time of the site reconnaissance, vehicle engine washing was observed outside and southeast of the Subject Property building. Wastewater that had been used to wash a vehicle engine appeared to drain into the grass landscape south of the Subject Property building, infiltrating the soil; however, oil staining was not observed.

Historically, the Subject Property appeared undeveloped in the topographic maps from 1896 through 1901. Based on aerial photographs, the Subject Property appeared as an orchard from at least 1931 through 1949. From 1953 through 1959, the northern portion of the Subject Property appeared to have been cleared and the southern portion of the Subject Property appeared to have been redeveloped with residential structures. The southern portion of the Subject Property appeared developed with residential structures through at least 2006. By 2007, the southern portion of the Subject Property appeared to have been cleared, and has remained vacant land through the present. The current structure with a canopy was constructed in 1966 and has remained similar to the present, with the exception of the canopy, which was demolished by 2021. City directory listings for the Subject Property address included Jerry's Auto Service in 2000; and GT Pit Stop from 2005 through 2014. The potential release of hazardous substances associated with the long-term auto repair operations conducted at the Subject Property represents a recognized environmental condition in connection with the Subject Property.

Given the historical use of the Subject Property, it is possible that pesticides and other agricultural chemicals may have been applied to the property and residual soil impacts may be present. Although this historical use is not considered a recognized environmental condition, Farallon cannot confirm that shallow subsurface soil was not adversely impacted from the possible former application of pesticides and/or herbicides. Based on the current use of the Subject Property for commercial purposes, potential residual impacts associated with historical agricultural uses is considered a de minimis condition in connection with the Subject Property.

The EDR Radius Map Report with GeoCheck dated February 6, 2023 prepared for the Subject Property by Environmental Data Resources, Inc. (EDR) (EDR Report) identified the Subject

Property address in several databases. According to the EDR Report, the Subject Property had three 7,500- or 8,000-gallon gasoline underground storage tanks (USTs) and a 550-gallon waste oil UST. The EDR Report lists the three gasoline USTs as either 7,500- or 8,000-gallon capacity. Additional information regarding the USTs on the Subject Property was not available. Farallon searched the GeoTracker, EnviroStor, and CalEPA databases for the Subject Property address and reviewed available information. Additionally, regulatory files for the Subject Property were requested; according to the San Bernardino County Environmental Health Services, no files for the Subject Property were available. The insufficient information regarding the three 7,500- or 8,000-gallon gasoline USTs and a 550-gallon waste oil UST at the Subject Property is considered a significant data gap for this report and represents a recognized environmental condition in connection with the Subject Property.

According to the EDR Report, Grand Terrace Gas-Up #2603 and GT Pitstop are listed as having a gasoline release to soil that was closed by San Bernardino County and the Santa Ana Regional Water Quality Control Board (Water Board) on March 15, 2000. Farallon searched the GeoTracker, EnviroStor, and CalEPA databases for the Subject Property address and reviewed available information. Additionally, regulatory files regarding this release were requested from the Water Board but have not yet been made available, which represents a significant data gap for this report. The historical release of gasoline impacting soil at the Subject Property that was granted regulatory closure represents a historical recognized environmental condition in connection with the Subject Property.

According to records provided by the South Coast Air Quality Management District, the Subject Property had two 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST. Additionally, regulatory files for the Subject Property were requested; according to the San Bernardino County Environmental Health Services, no files for the Subject Property were available. The insufficient information regarding the two 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST at the Subject Property is considered a significant data gap for this report and represents a recognized environmental condition in connection with the Subject Property.

Adjoining properties at the time of the site reconnaissance included Barton Road followed by a Lions Club Community Center to the north; the intersection of Barton Road and Commerce Way followed by a Taco Bell restaurant to the northeast; Commerce Way followed by an Auto Zone auto parts store to the east; vacant land to the south; Michigan Street followed by Cal Skate GT roller skating rink to the southwest; and ARCO gasoline station and convenience store to the west. Historically, adjoining properties appeared undeveloped in the topographic maps from 1896 through 1901. Barton Road appeared north of the Subject Property and Michigan Street appeared west of the Subject Property from at least 1931. The north-adjoining property appeared developed with several structures from at least 1931. Additional structures were added at the north-adjoining property in 1949 and 1967 and have remained similar to the present. Adjoining properties to the east, south, and west appeared as an orchard from at least 1931 through 1949. From 1953 through 1967, the east-adjoining property appeared developed with residential structures. From 1975 through 1989, the east-adjoining property appeared as vacant land. From 1995 through 2016, the east-adjoining property appeared redeveloped with a commercial property. The east-adjoining property appeared to have been cleared by 2016 and Commerce Way appeared east of the Subject

Property by 2018. The current-east adjoining commercial structure appeared developed by 2014 and remained similar through the present. The south-adjoining property appeared to have been cleared by 1953 and remained vacant land through 1959. From 1967 through 2006, the south-adjoining property appeared developed with residential properties. By 2007, the south-adjoining property appeared to have been cleared, and has remained vacant land through the present. The current southwest-adjoining commercial structure appeared by at least 1995 and has remained similar through present. The current west-adjoining gasoline station appeared by 1959, appeared to have been expanded in 2002, and has remained similar through the present.

The EDR Report identified several facilities adjoining or proximate to the Subject Property in the regulatory databases. Based on their current regulatory status, topographic location, and/or distance relative to the Subject Property, these facilities do not represent a recognized environmental condition in connection with the Subject Property.

Based on review of the Subject Property history, interviews with persons knowledgeable about the Subject Property, reconnaissance of the Subject Property, and review of the EDR Report, this Phase I ESA identified the following environmental conditions in connection with the Subject Property:

- The potential release of hazardous substances associated with the long-term auto repair operations conducted at the Subject Property represents a recognized environmental condition in connection with the Subject Property;

- The potential release of hazardous substances associated with three 7,500- or 8,000-gallon gasoline USTs and a 550-gallon waste oil UST at the Subject Property represents a recognized environmental condition in connection with the Subject Property; and

- The potential release of hazardous substances associated with two 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST at the Subject Property represents a recognized environmental condition in connection with the Subject Property.

Additionally, the historical release of gasoline that impacted soil at the Subject Property and was subsequently granted regulatory closure represents a historical recognized environmental condition in connection with the Subject Property

At the request of the User, Farallon performed additional environmental services that are not required to satisfy ASTM E1527-21. Although not considered recognized environmental conditions based on available information, Farallon identified the following additional findings:

- The Subject Property is in Radon Zone 2, having a predicted average indoor radon screening level of between 2 and 4 picocuries per liter. The U.S. Environmental Protection Agency zone designation reflects the average short-term radon measurement that can be expected to be measured in a building without implementation of radon-control methods. Based on the Subject Property's location, radon is not expected to pose a human health risk to persons occupying the Subject Property.

- Based on the Subject Property buildings' construction date of 1966, asbestos-containing material is expected to be present. Nova Group conducted a nondestructive asbestos survey of the Subject Property building in accordance with ASTM E2356-18, *Standard Practice for Comprehensive Building Asbestos Surveys*, on February 16, 2023. Asbestos-containing material was not detected in any of the samples analyzed.

- Based on the Subject Property buildings' construction date of 1966, lead-based paint is expected to be present on the Subject Property. Nova Group conducted lead paint sampling of the Subject Property building on February 16, 2023. Lead-based paint was detected in one of the three samples analyzed, described as the "red paint on fascia" located on the south exterior roof.

1.0 INTRODUCTION

Farallon Consulting, L.L.C. (Farallon) has prepared this Phase I Environmental Site Assessment (ESA) Report for the property at 22115 Barton Road in Grand Terrace, California (herein referred to as the Subject Property) (Figure 1). This section discusses the project authorization and scope of work, the qualifications of the Environmental Professionals who conducted and reviewed the Phase I ESA work, the project purpose and objective, shelf life of all appropriate inquiries (AAI) documents, deviations, and data gaps.

1.1 PROJECT AUTHORIZATION AND SCOPE OF WORK

The Phase I ESA Report was prepared for BB Holdings CA, LLC, an Oregon limited liability company; DB Franchising USA, LLC, an Oregon limited liability company; Dutch Bros., LLC, an Oregon limited liability company; Dutch Mafia, LLC, an Oregon limited liability company; Boersma Bros. LLC, an Oregon limited liability company; and Dutch Bros Inc., a Delaware Corporation (Client and User) in accordance with *Service Order No. CA-5204* dated February 6, 2023 between the User and Farallon. The Phase I ESA was conducted in accordance with the *Master Professional Services Agreement* dated September 26, 2019 between Boersma Bros. LLC, an Oregon limited liability company, and Farallon; and is in accordance with *Exhibit A, Description of Services* (Scope of Work) (collectively, the Authorization). The scope of work is consistent with ASTM International Standard E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E1527-21). This Phase I ESA also satisfies the requirements of ASTM E1527-21.

1.2 PROFESSIONAL QUALIFICATIONS

The Phase I ESA was conducted by Beth Padgett and was reviewed and approved by Charles T. Esler. Both have an understanding of surface and subsurface environmental conditions and the processes used to evaluate these conditions, and the ability to develop opinions regarding conditions indicative of a release or a threatened release of hazardous substances and petroleum products. AAI has been performed in conformance with the standards and practices set forth in Part 312 of Title 40 of the Code of Federal Regulations. The professional qualifications of the Environmental Professionals are provided in Appendix A.

1.3 PROJECT PURPOSE AND OBJECTIVE

The purpose of the Phase I ESA was to identify, as practicable, recognized environmental conditions at the Subject Property and within the appropriate study area that have caused and/or may cause an adverse environmental impact. ASTM E1527-21 is intended to permit a user to satisfy one of the requirements to qualify for protection from potential liability under the Comprehensive Environmental Response, Compensation, and Liability Act as the innocent landowner, contiguous property owner, or bona fide prospective purchaser. ASTM E1527-21 constitutes “all appropriate inquiry” into the previous ownership, uses, and environmental

conditions of a property consistent with good commercial or customary practice, as defined in Section 9601(35)(B) of Title 42 of the U.S. Code.

The objective of the Phase I ESA was to perform an appropriate inquiry into past and present ownership and uses of the Subject Property, consistent with good commercial and/or customary practice. This Phase I ESA Report is to be used as a risk management tool to meet all appropriate inquiry requirements and the Comprehensive Environmental Response, Compensation, and Liability Act liability defense. The Phase I ESA does not guarantee that there are no impacts to the Subject Property.

For the purpose of this Phase I ESA Report, the term "recognized environmental condition" is defined as (1) the presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the Subject Property under conditions that pose a material threat of a future release to the environment. A de minimis condition is not a recognized environmental condition.

The term "controlled recognized environmental condition" is defined as a recognized environmental condition affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities, with hazardous substances or petroleum products allowed to remain in-place subject to implementation of required controls.

The term "historical recognized environmental condition" is defined as a previous release of hazardous substances or petroleum products affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the Subject Property to any controls (e.g., activity and use limitations or other property use limitations). A historical recognized environmental condition is not a recognized environmental condition.

1.4 SHELF LIFE OF ALL APPROPRIATE INQUIRIES DOCUMENTS

The AAI rule prepared by the U.S. Environmental Protection Agency (EPA)[1] specifies that AAI must be conducted within 1 year prior to the date of acquisition of the Subject Property. EPA has defined the date of acquisition as the date a person acquires title to the property. To ensure full coverage under the AAI rule, a valid Phase I ESA Report must be completed within 1 year prior to the date of acquisition of title.

[1] Part 312 of Subchapter J of Chapter I of Title 40 of the Code of Federal Regulations.

Select Phase I ESA Report components and supporting information sources must be updated if they were completed more than 6 months (180 days) prior to acquisition of title. The Phase I ESA components with a 180-day shelf life consist of:

- Site reconnaissance;
- Subject Property interview(s);
- User-provided information;
- Review of government regulatory records; and
- Declaration/signature of certifying Environmental Professional.

The date on the cover of this Phase I ESA Report is the production date of the written report. The dates various components of this Phase I ESA were completed are as follows:

- Site reconnaissance: February 10, 2023.
- Interview with knowledgeable person: February 6, 2023.
- User-provided information: February 6, 2023.
- Review of government regulatory records: February 6, 2023.
- Declaration/signature of certifying Environmental Professional: March 6, 2023.

1.5 DEVIATIONS

There were no deviations from ASTM E1527-21 during this Phase I ESA, with the exception of additional services requested by the User.

1.6 DATA GAPS

Data gaps may affect the ability to identify recognized environmental conditions and Farallon's ability to render opinions and conclusions for presentation in the Phase I ESA Report. Farallon identified the following significant data gaps.

Farallon contacted the City of Grand Terrace Planning and Developmental Services Department and the City of Grand Terrace Fire Department to inquire whether notices of violations and/or reported hazardous spills at the Subject Property were on file, and regarding previous and current ASTs and USTs at the Subject Property. No response was received prior to completion of this Phase I ESA Report, which is considered a data gap for this report.

According to records provided by the South Coast Air Quality Management District (SCAQMD), the Subject Property had two 10,000-gallon gasoline underground storage tanks (USTs) and one 10,000-gallon diesel UST. Additionally, regulatory files for the Subject Property were requested; according to the San Bernardino County Environmental Health Services, no files for the Subject Property were available. The insufficient information regarding the two 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST at the Subject Property is considered a significant data gap for this report and represents a recognized environmental condition in connection with the Subject Property.

According to the EDR Report, the Subject Property had three 7,500- or 8,000-gallon gasoline USTs and a 550-gallon waste oil UST. The EDR Report lists the three gasoline USTs as either 7,500- or 8,000-gallon capacity. Additional information regarding the USTs on the Subject Property was not available. Farallon searched the GeoTracker, EnviroStor, and CalEPA databases for the Subject Property address and reviewed available information. Additionally, regulatory files for the Subject Property were requested; according to the San Bernardino County Environmental Health Services, no files for the Subject Property were available. The insufficient information regarding the three 7,500- or 8,000-gallon gasoline USTs and a 550-gallon waste oil UST at the Subject Property is considered a significant data gap for this report and represents a recognized environmental condition in connection with the Subject Property.

According to the EDR Report, Grand Terrace Gas-Up #2603 and GT Pitstop are listed as having a gasoline release to soil that was closed by San Bernardino County and the Santa Ana Regional Water Quality Control Board (Water Board) on March 15, 2000. Farallon searched the GeoTracker, EnviroStor, and CalEPA databases for the Subject Property address and reviewed available information. Additionally, regulatory files regarding this release were requested from the Santa Ana Water Board but have not yet been made available, which represents a significant data gap for this report. The historical release of gasoline that impacted soil at the Subject Property and was subsequently granted regulatory closure represents a historical recognized environmental condition in connection with the Subject Property.

2.0 SUBJECT PROPERTY OVERVIEW

This section presents the Subject Property location, description, and operations. A description of adjoining and surrounding land use also is provided.

2.1 SUBJECT PROPERTY LOCATION

The Subject Property is southwest of the intersection of Barton Road and Commerce Way, at 22115 Barton Road in Grand Terrace, San Bernardino County, California. The Subject Property is in a commercial and residential area approximately 0.5 mile west of downtown Grand Terrace. The Subject Property vicinity is shown on Figure 1.

2.2 SUBJECT PROPERTY DESCRIPTION

The Subject Property consists of a portion of San Bernardino County Parcel No. 1167-231-10-0000, the entire San Bernardino County Parcel No. 1167-231-11-0000, and a portion of land that was previously owned by the City of Grand Terrace and recently sold to be developed as part of the Subject Property. The Subject Property totals 0.74 acre of land developed with a single-story 1,280-square-foot auto repair shop that was constructed in 1966. Remaining areas of the Subject Property consist of paved parking lot and overgrown natural vegetation. Access to the Subject Property is gained from Barton Road, north of the Subject Property, and Michigan Street, west of the Subject Property. According to the Title Report, the Subject Property owner is Salam Yasin as trustee of the Salam Yasin living trust. According to the City of Grand Terrace, the Subject Property is zoned "BRSP - general commercial."

Figure 2 presents a plan map of the Subject Property. Additional details pertaining to the Subject Property are provided in Section 9, Site Reconnaissance. Subject Property photographs are presented in Appendix B.

2.3 SUBJECT PROPERTY OPERATIONS

The Subject Property building is occupied by GT Pit Stop. The western portion of the Subject Property building is used as office space. The eastern portion of the Subject Property building is an auto repair shop and used for oil changes, brake jobs, vehicle tune ups, and general automotive repair. According to the Subject Property representative, GT Pit Stop has occupied the Subject Property since at least 2018.

2.4 ADJOINING AND SURROUNDING LAND USE

Adjoining properties at the time of the site reconnaissance included Barton Road followed by a Lions Club Community Center to the north; the intersection of Barton Road and Commerce Way followed by a Taco Bell restaurant to the northeast; Commerce Way followed by an Auto Zone auto parts store to the east; vacant land to the south; Michigan Street followed by Cal Skate GT roller skating rink to the southwest; and ARCO gasoline station and convenience store to the west.

Observations were restricted to areas readily observable from the Subject Property and to public rights-of-way. Although Farallon did not observe evidence of spills or releases at these properties during the reconnaissance, gasoline stations are known to use petroleum products. Additional information regarding adjoining properties is provided in Section 7.2, Adjoining Facility Listings.

3.0 PHYSICAL SETTING

The topography, geology, and hydrogeology of the Subject Property are described in this section. Farallon's assessment of sensitive receptors in the area also is discussed. Farallon reviewed the following physical setting sources as part of this Phase I ESA:

- U.S. Geological Survey topographic maps of San Bernardino, California dated 1896, 1898, 1901, and 1942; of Colton, California dated 1938 and 1943; and of San Bernardino South, California dated 1954, 1967, 1973, 1980, 2012, 2015, and 2018 all obtained from Environmental Data Resources, Inc. (EDR);
- *The EDR Radius Map Report with GeoCheck* dated February 6, 2023 prepared for the Subject Property by EDR (EDR Report); and/or
- Documentation of previous environmental studies referenced in Section 4.5, Previous Environmental Studies, and/or documents cited in Section 7, Records Review.

3.1 TOPOGRAPHY

Farallon reviewed the U.S. Geological Survey topographic maps for the Subject Property area provided by EDR. The maps depict the Subject Property at an elevation of approximately 998 feet above mean sea level. Subject Property topography is relatively flat. Regional topography is generally flat, with a slight slope down to the west, and hills to the east and west.

3.2 GEOLOGY AND HYDROGEOLOGY

The Subject Property is in the San Bernardino Valley, a south-trending structural depression positioned south of the San Bernardino and the eastern San Gabriel Mountains in southern California. The main water body in the San Bernardino Valley is the Santa Ana River. The San Bernardino Valley is characterized by quaternary alluvium and marine deposits consisting of unconsolidated and semi-consolidated alluvium, lake, playa, and terrace deposits. Alluvium deposits range in age from the Pliocene to the Holocene eras. According to the EDR Report, surface soil at the western portion of the Subject Property consists primarily of Greenfield sandy loam, which is well drained; the surface soil at the eastern portion of the Subject Property consists primarily of Monserate sandy loam, which is moderately well drained.

The Subject Property is in the Upper Santa Ana Valley Groundwater Basin San Bernardino/Bunker Hill subbasin. The basin is bounded by San Gabriel, the San Bernardino mountains, the Crafton Hills, and the Banning, Redlands, and San Andreas Faults.

Based on Farallon's review of the California State Water Resource Control Board GeoTracker database (GeoTracker database), groundwater is expected to be encountered at depths of approximately 140 to 170 feet below ground surface and flow to the south-southwest. Farallon cannot determine the actual direction of groundwater flow or the depth to groundwater at the Subject Property without installing monitoring wells.

3.3 OIL AND GAS RECORDS

According to the California Department of Conservation, Geologic Energy Management Division Well Finder online database, no permitted oil or gas wells are present on the Subject Property or adjoining properties.

3.4 SENSITIVE RECEPTORS

Sensitive receptors are areas such as hospitals, schools, day care facilities, and elderly housing or convalescent facilities where occupants are more susceptible to the adverse effects of exposure to toxic chemicals, pesticides, and other pollutants. Extra care must be taken when dealing with contaminants and pollutants proximate to areas recognized as sensitive receptors. Farallon's limited assessment for sensitive receptors on or adjoining the Subject Property consisted of a review of properties where occupants are more susceptible to adverse effects of exposure to toxic chemicals, pesticides, and other pollutants; observation of apparent features such as surface water bodies (e.g., low-lying wet areas, streams, ponds) and residential and recreational areas; and review of readily ascertainable information relating to the presence of private, semiprivate, public, and industrial water-supply wells on or in the vicinity of the Subject Property.

No hospitals, schools, day care facilities, or elderly housing or convalescent facilities were identified on or adjoining the Subject Property during the review of sensitive receptors conducted at the time of the site reconnaissance. According to the EDR Report, the Subject Property is in an area of minimal flood hazard. Federally designated wetlands were not identified within 1 mile of the Subject Property. Public water-supply wells were not identified within 1 mile of the Subject Property. The nearest surface water bodies to the Subject Property were identified as Gage Canal approximately 0.3 mile east of the Subject Property, the Santa Ana River approximately 0.8 mile north and 1.7 miles west of the Subject Property, and Poorman's Reservoir approximately 5.75 miles southeast of the Subject Property. A residential community is approximately 460 feet northeast of the Subject Property.

4.0 USER-PROVIDED INFORMATION

Farallon understands that the User of this report is seeking to follow the standards set forth in ASTM E1527-21 to complete an environmental assessment of the Subject Property. The User has specific responsibilities for fulfilling ASTM E1527-21 requirements to help identify the possibility of recognized environmental conditions in connection with the Subject Property. These responsibilities do not require the technical expertise of an Environmental Professional, and were not performed by Farallon.

To facilitate fulfillment of the ASTM E1527-21 requirements identified below, Farallon provided Marissa Mecca, Construction Project Coordinator, representative of the User, with a copy of the *Phase I Environmental Site Assessment User Questionnaire* (User Questionnaire) to complete. Information obtained from the completed User Questionnaire is summarized below in Sections 4.1 through 4.3. The completed User Questionnaire is provided in Appendix C of this Phase I ESA Report.

4.1 TITLE AND LIEN RECORDS

The User was not aware of environmental liens against the Subject Property.

At the request of the User and beyond the scope of ASTM E1527-21, Farallon obtained and reviewed the *EDR Environmental Lien and AUL Search* dated February 6, 2023 prepared for the Subject Property by EDR (EDR Lien Search). The EDR Lien Search provided results from a search of available current land title records for environmental cleanup liens and other activity and use limitations such as engineering and institutional controls. A lien search does not replace the User obligations to review Land Title and Judicial records for the Subject Property as described in ASTM E1527-21. The EDR Lien Search did not identify environmental liens or other activity and use limitations for the Subject Property. The EDR Lien Search is provided in Appendix C of this Phase I ESA Report.

The *Limited Title Report* dated December 29, 2021 prepared by the Old Republic National Title Insurance Company (Title Report) was provided for review. According to the Title Report, the Subject Property owner is Salam Yasin, as trustee of the Salam Yasin living trust.

4.2 EXPERIENCE AND SPECIALIZED KNOWLEDGE

The User has no experience or specialized knowledge regarding the Subject Property.

4.3 COMMONLY KNOWN INFORMATION

The User is not aware of commonly known information that would lead to identification of recognized environmental conditions in connection with the Subject Property.

4.4 PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT USERS

This Phase I ESA Report was prepared for the User. Additional relying parties are identified in Section 14.2, Limitation on Reliance by Third Parties.

4.5 PREVIOUS ENVIRONMENTAL STUDIES

Farallon was not provided with previous environmental reports prepared for the Subject Property.

5.0 SUBJECT PROPERTY AND ADJOINING PROPERTY HISTORY

Farallon reviewed the historical sources listed below as part of this Phase I ESA. The historical sources documented were reasonably ascertainable and practically reviewable during this Phase I ESA. Farallon is not responsible for the accuracy or completeness of the historical sources reviewed.

- Aerial photographs of the Subject Property and its vicinity dated 1931, 1938, 1949, 1953, 1959, 1967, 1975, 1978, 1985, 1989, 1995, 2002, 2006, 2009, 2012, 2016, and 2020 obtained from EDR (Appendix D); and dated 1995, 2002 through 2007, 2009, 2011, 2012 through 2014, 2016, and 2018 through 2021 obtained from Google Earth;
- City directories dated 1971, 1976, 1980, 1986, 1995, 2000, 2005, 2014, and 2017 obtained from EDR; and
- U.S. Geological Survey topographic maps of San Bernardino, California dated 1896, 1898, 1901, and 1942; of Colton, California dated 1938 and 1943; and of San Bernardino South, California dated 1954, 1967, 1973, 1980, 2012, 2015, and 2018 obtained from EDR.

A search for fire insurance maps resulted in notification that there was no coverage for the Subject Property.

5.1 SUBJECT PROPERTY

The Subject Property appeared undeveloped in the topographic maps from 1896 through 1901. Based on aerial photographs, the Subject Property appeared as an orchard from at least 1931 through 1949. From 1953 through 1959, the northern portion of the Subject Property appeared to have been cleared and the southern portion of the Subject Property appeared to have been redeveloped with residential structures. The southern portion of the Subject Property appeared developed with residential structures through at least 2006. By 2007, the southern portion of the Subject Property appeared to have been cleared, and has remained as vacant land through the present. The current structure with a canopy was constructed in 1966 and has remained similar to the present, with the exception of the canopy, which was demolished by 2021.

City directory listings for the Subject Property address included Jerry's Auto Service in 2000; and GT Pit Stop from 2005 through 2014.

The potential release of hazardous substances associated with the long-term auto repair operations conducted at the Subject Property represents a recognized environmental condition in connection with the Subject Property. Additional information regarding the Subject Property history is provided in Section 7.1, Subject Property Listings.

Given the historical use of the Subject Property, it is possible that pesticides and other agricultural chemicals may have been applied to the property and residual soil impacts may be present. Although this historical use is not considered a recognized environmental condition, Farallon cannot confirm that shallow subsurface soil was not adversely impacted from the possible former

application of pesticides and/or herbicides. Based on the current use of the Subject Property for commercial purposes, potential residual impacts associated with historical agricultural uses is considered a de minimis condition in connection with the Subject Property.

5.2 ADJOINING PROPERTIES

Adjoining properties appeared undeveloped in the topographic maps from 1896 through 1901. Barton Road appeared north of the Subject Property and Michigan Street appeared west of the Subject Property from at least 1931. The north-adjoining property appeared developed with several structures from at least 1931. Additional structures were added at the north-adjoining property in 1949 and 1967 and have remained similar to the present. Adjoining properties to the east, south, and west appeared as an orchard from at least 1931 through 1949. From 1953 through 1967, the east-adjoining property appeared developed with residential structures. From 1975 through 1989, the east-adjoining property appeared as vacant land. From 1995 through 2016, the east-adjoining property appeared redeveloped with a commercial property. The east-adjoining property appeared to have been cleared by 2016 and Commerce Way appeared east of the Subject Property by 2018. The current-east adjoining commercial structure appeared developed by 2014 and remained similar through the present. The south-adjoining property appeared to have been cleared by 1953 and remained vacant land through 1959. From 1967 through 2006, the south-adjoining property appeared developed with residential properties. By 2007, the south-adjoining property appeared to have been cleared, and has remained vacant land through the present. The current southwest-adjoining commercial structure appeared by at least 1995 and has remained similar through the present. The current west-adjoining gasoline station appeared by 1959, appeared to have been expanded in 2002, and has remained similar through the present.

City directory listings for the north-adjoining property included Narcotics Anonymous in 2010 and Grant Terrace Lions Club in 2014. City directories for the northeast-adjoining property included residential listings from 2005 through 2014. City directories for the east-adjoining property included Auto Zone from 2000 through 2017. City directories for the west-adjoining property included ARCO service station from 2000 to 2005; Allod Investments and Melik Motors in 2005; and Quick Stop in 2010.

Additional information regarding adjoining properties is provided in Section 7.2, Adjoining Facility Listings.

6.0 STATE AND LOCAL GOVERNMENT AGENCY INTERVIEWS

The objective of interviews with state and/or local government agencies is to obtain information related to recognized environmental conditions in connection with the Subject Property. The interviews consist of questions asked in person, or by email, telephone, and/or online request for records.

6.1 CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SANTA ANA REGION

The California Regional Water Quality Control Board Santa Ana Region directed Farallon to the GeoTracker database to review information regarding violations and/or reported hazardous spills and regarding previous and current aboveground storage tanks (ASTs) and USTs at the Subject Property. Farallon reviewed the GeoTracker database for information regarding the Subject Property and adjoining properties. Relevant information is included in Section 7.1, Subject Property Listings, and Section 7.2, Adjoining Facility Listings.

6.2 SAN BERNARDINO COUNTY ENVIRONMENTAL HEALTH SERVICES

Farallon contacted the San Bernardino County Environmental Health Services to inquire whether notices of violations and/or reported hazardous spills at the Subject Property were on file, and regarding previous and current ASTs and USTs at the Subject Property. On February 8, 2023, a representative of the San Bernardino County Environmental Health Services stated that it had no records of storage tanks, hazardous material storage, or spills associated with the Subject Property.

6.3 CITY OF GRAND TERRACE PLANNING AND DEVELOPMENTAL SERVICES DEPARTMENT

Farallon contacted the City of Grand Terrace Planning and Developmental Services Department on February 6, 2023 to inquire whether notices of violations and/or reported hazardous spills at the Subject Property were on file, and regarding previous and current ASTs and USTs at the Subject Property. No response was received prior to completion of this Phase I ESA Report, which is considered a data gap for this report.

6.4 CITY OF GRAND TERRACE FIRE DEPARTMENT

Farallon contacted the City of Grand Terrace Fire Department on February 6, 2023 to inquire whether notices of violations and/or reported hazardous spills at the Subject Property were on file, and regarding previous and current ASTs and USTs at the Subject Property. No response was received prior to completion of this Phase I ESA Report, which is considered a data gap for this report.

6.5 SOUTH COAST AIR QUALITY MANAGEMNT DISTRICT

Farallon contacted the SCAQMD to request records regarding the Subject Property. On February 9, 2023, Farallon was provided with the records from SCAQMD. Records included a permit to operate as a gasoline storage and dispensing facility with six nozzles dated 1981; a permit to operate as a gasoline fueling and dispensing facility with three gasoline USTs, 12 gas dispensing nozzles, and a vapor recovery system dated 1985; and a permit to operate as a gasoline fueling and dispensing facility with two 10,000-gallon gasoline USTs with eight gasoline dispensing nozzles, and one 10,000-gallon diesel UST with four diesel dispensing nozzles dated 1989. Records also included compliance reports and compliance requirements dated 1992 and 1995. Additional information regarding the USTs on the Subject Property was not available. Additionally, regulatory files for the Subject Property were requested; according to the San Bernardino County Environmental Health Services, no files for the Subject Property were available. The insufficient information regarding the two 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST at the Subject Property is considered a significant data gap for this report and represents a recognized environmental condition in connection with the Subject Property.

7.0 RECORDS REVIEW

EDR conducted a review of environmental regulatory agency database listings to identify reported environmental issues related to the Subject Property and facilities in the Subject Property vicinity. Pertinent regulatory files and/or records associated with the listings were reviewed by Farallon. Farallon used the greater of each approximate minimum search distance from the Subject Property for each of the referenced federal and state environmental databases, as specified in ASTM E1527-21.

Farallon reviewed the EDR Report to note reported facilities in the vicinity of the Subject Property that were considered to have a potential to adversely impact the Subject Property (i.e., are known to have resulted in or are expected to result in a recognized environmental condition). Reported facilities were evaluated with respect to the nature and extent of a given release, the distance of the reported facility from the Subject Property, the geology of the area, and the topographic position of a reported facility with respect to known or expected local and/or regional groundwater flow direction.

The complete database names for the abbreviations used in this Phase I ESA Report, the descriptions of the databases searched, and the associated search distances from the Subject Property are provided in the EDR Report presented in Appendix E.

7.1 SUBJECT PROPERTY LISTINGS

The EDR Report identified the following facilities on the Subject Property at the address(es) shown:

- **GT Pitstop Auto Sports, GT Pitstop Automotive Services LLC, GT Pitstop** at 22115 Barton Road, currently located on the Subject Property, was identified in the HWTS, LUST, San Bern Co. Permit, RCRA NonGen/NLR, FINDS, CHMIRS, and ECHO databases. The facility had a NAICS description as "other gasoline station" as of 2018 but was listed as inactive as of 2020. The facility was a handler of hazardous materials, with no reported violations. Numerous compliance violations were dated from 2013 and 2022. As of 2022, the facility is listed as storing used motor oil/solid waste, used motor oil, ethylene glycol/used waste coolant, and cleaning solvent for an auto parts washer. The potential release of hazardous substances associated with the long-term auto repair operations conducted at the Subject Property represents a recognized environmental condition in connection with the Subject Property.

  The facility is listed as having a gasoline release to soil that was closed by San Bernardino County and the Santa Ana Water Board on March 15, 2000, which appears to be a duplicate listing discussed below for Grand Terrace Gas-Up #2603.

- **Grand Terrace Gas-Up #2603** at 22115 Barton Road, formerly located on the Subject Property, was identified in the LUST, CERS HAZ WASTE, CORTESE, CERS, FINDS, HIST UST, SWEEPS UST, CA FID UST, HIST CORTESE, and RGA LUST databases. According to the EDR Report, the Subject Property had three 7,500- or 8,000-gallon

gasoline USTs and a 550-gallon waste oil UST. The EDR Report lists the three gasoline USTs as either 7,500- or 8,000-gallon capacity. Additional information regarding the USTs on the Subject Property was not available. Farallon searched the GeoTracker, EnviroStor, and CalEPA databases for the Subject Property address and reviewed available information. Additionally, regulatory files for the Subject Property were requested; according to the San Bernardino County Environmental Health Services, no files for the Subject Property were available. The insufficient information regarding the three 7,500- or 8,000-gallon gasoline USTs and a 550-gallon waste oil UST at the Subject Property is considered a significant data gap for this report and represents a recognized environmental condition in connection with the Subject Property.

Grand Terrace Gas-Up #2603 and GT Pitstop are listed as having a gasoline release to soil that was closed by San Bernardino County and Water Board on March 15, 2000. Farallon searched the GeoTracker, EnviroStor, and CalEPA databases for the Subject Property address and reviewed available information. Additionally, regulatory files regarding this release were requested from Water Board but have not yet been made available, which represents a significant data gap for this report. The release of gasoline that impacted soil at the Subject Property and subsequent regulatory closure represents a historical recognized environmental condition in connection with the Subject Property.

- **Jerry's Auto Service** at 22115 Barton Road, formerly located on the Subject Property, was identified in the EDR Hist Auto database. According to the EDR Report, the facility was a gasoline service station from at least 1969 through 2006.

- **Inland Commercial Fueling** at 22115 Barton Road, formerly located on the Subject Property, was identified in the HWTS and HAZNET databases. According to the EDR Report, the facility is listed as having 400 gallons and 1.52 tons of "waste oil and mixed oil" recycled in 1999.

7.2 ADJOINING FACILITY LISTINGS

ASTM defines "adjoining" as "any real property or properties the border of which is contiguous or partially contiguous with that of the Subject Property, or that would be contiguous or partially contiguous with that of the Subject Property but for a street, road, or other public thoroughfare separating them." The EDR Report identified the following adjoining facilities in the databases reviewed:

- **Mobil Station 92, Quick Stop ARCO, Quick Stop #5, Quick Stop ARCO (currently ARCO gasoline station)** at 22087 Barton Road, approximately 100 feet west-adjoining the Subject Property and at a lower topographic elevation, was identified in the SWEEPS UST, HIST UST, RCRA NonGen/NLR, UST, HWTS, LUST, CERS HAZ WASTE, CORTESE, HAZNET, San Bern Co. Permit, and EDR Hist Auto databases. According to the EDR Report, the facility was an automotive repair shop in 1989 and has been a gasoline station since at least 1995. The facility is a handler of hazardous waste with no violations reported. Farallon searched the GeoTracker, EnviroStor, and CalEPA databases for the facility and reviewed available information. The facility is listed as having three 10,000-

gallon gasoline USTs and a 500-gallon used oil UST removed in 1998. During the tank removal a release of gasoline was discovered. Approximately 890 tons of impacted soil was removed from the facility in 1998. Cleanup activities included installation of groundwater monitoring wells in 2003 and a soil vapor extraction system in 2007. Soil and groundwater contamination was remediated from 2007 through 2010. Groundwater was encountered at approximately 140 to 170 feet below ground surface and with a flow to the south-southwest. According to the most recent groundwater monitoring report dated 2011, the groundwater monitoring well nearest the Subject Property has never been impacted with gasoline; benzene, toluene, ethylbenzene, xylenes; methyl tertiary-butyl ether, or other oxygenates. Water Board issued "No Further Action" case closure on August 8, 2017. The facility remains a gasoline station with at least two 20,000-gallon gasoline USTs. Based on the EDR Report and GeoTracker, EnviroStor, and CalEPA databases, groundwater gradient at this facility to the south-southwest, and closed regulatory status, this facility does not represent a recognized environmental condition in connection with the Subject Property.

- **AutoZone #5614** at 22125 and 22203 Barton Road, approximately 200 feet east-adjoining the Subject Property and at a higher topographic elevation, was identified in the RCRA NonGen/NLR, HWTS, CERS HAZ WASTE, HAZNET, PERMIT, CERS, and San Bern Co. Permit databases. According to the EDR Report, the facility is a handler of hazardous materials with no violations reported. Farallon searched the GeoTracker, EnviroStor, and CalEPA databases for the facility, but found no listings. Based on the EDR Report and GeoTracker, EnviroStor, and CalEPA databases, this facility does not represent a recognized environmental condition in connection with the Subject Property.
- **Golden Star Investment Properties LLC & Elahe Amen (current Taco Bell location)** at 22172 Barton Road, approximately 200 feet northeast-adjoining the Subject Property and at a higher topographic elevation, was identified in the RCRA NonGen/NLR database. According to the EDR Report, the facility is a handler of hazardous materials with no violations reported. Farallon searched the GeoTracker, EnviroStor, and CalEPA databases for the facility, but found no listings. Based on the EDR Report and GeoTracker, EnviroStor, and CalEPA databases, this facility does not represent a recognized environmental condition in connection with the Subject Property.

7.3 SURROUNDING FACILITY LISTINGS

Reported facilities within 0.25 mile up-gradient or 0.125 mile cross-gradient of the Subject Property are considered to have a potential to have impacted the Subject Property, depending on the depth and the directional flow of groundwater. Facilities that were listed in the EDR Report but not identified as a reported facility (e.g., a facility listed as a hazardous waste generator but not as having had a release), and facilities that were listed as "Closed" were not considered to have a potential to have impacted the Subject Property. The EDR Report identified the following surrounding facilities in databases reviewed:

- **Stater Bros. Markets #188** at 22201 Barton Road, approximately 424 feet southeast of the Subject Property and at a higher topographic elevation, was identified in the RCRA

NonGen/NLR, CERS HAZ WASTE, SAN BERN CO., PERMIT, and CERS databases. According to the EDR Report, the facility is a handler of hazardous materials with no violations reported. Farallon searched the GeoTracker, EnviroStor, and CalEPA databases for the facility, but found no listings. Based on the EDR Report and GeoTracker, EnviroStor, and CalEPA databases, this facility does not represent a recognized environmental condition in connection with the Subject Property.

7.4 EDR EXCLUSIVE DATABASES

EDR searched select national collections of business directories and collected listings of potential automotive-related facilities (e.g., gasoline station, filling station, service station), and dry cleaner facilities that were available to EDR researchers. The review was limited to those categories of sources that might, in the opinion of EDR, include gasoline station, filling station, service station, and dry cleaning establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry, etc. The historical review presents unique and sometimes proprietary EDR data about past sites and operations that typically create environmental concerns, but may not show up in current government records searched.

7.4.1 Historical Auto Stations

Reported historical automotive-related facilities within 250 feet of the Subject Property are considered to have a potential to have impacted the Subject Property. The EDR Report identified one historical automotive-related facility within 250 feet of the Subject Property. Releases and/or notices of violations at one or more of these facilities were reported, identified below:

- **Mobil Station 92, Quick Stop ARCO, Quick Stop #5, Quick Stop ARCO** at 22087 Barton Road, approximately 100 feet west-adjoining the Subject Property.

Based on the EDR Report and GeoTracker, EnviroStor, and CalEPA databases, groundwater gradient at this facility to the south-southwest, and closed regulatory status, this facility does not represent a recognized environmental condition in connection with the Subject Property.

7.4.2 Historical Cleaners

Reported historical dry cleaner facilities within 250 feet of the Subject Property are considered to have a potential to have impacted the Subject Property. The EDR Report did not identify historical dry cleaner facilities within 250 feet of the Subject Property.

7.5 UNMAPPABLE LISTINGS

Listings that cannot be mapped due to inaccurate or inadequate address information are identified as “orphaned” facilities by EDR.

EDR identified two orphaned facilities. Farallon located these orphaned facilities as practicable and, according to the information provided by EDR, they are not located within the respective

search radii. The orphaned facilities located do not represent a recognized environmental condition in connection with the Subject Property.

8.0 SUBJECT PROPERTY INTERVIEW(S)

Farallon attempted to interview individuals familiar with the Subject Property, including owners, operators, and occupants, to obtain additional Subject Property information. Interviews were conducted in person, in writing, or by telephone. The individual(s) interviewed and their responses are discussed in the following sections.

8.1 INTERVIEW WITH SUBJECT PROPERTY REPRESENTATIVE

On February 6, 2023, Farallon interviewed Mike Yasin, manager of Salam Yasin Living Trust, and owner of the Subject Property. The following information was obtained from this interview:

- The Subject Property has been an auto repair shop for at least the past 30 years.
- GT Pit Stop has occupied the Subject Property since 2018.
- Hazardous materials include motor oil, waste oil, transmission fluid, and other auto repair-related products.
- Electricity is provided to the Subject Property by SoCal Edison; sewer service is provided by Poulton public utilities.
- Landscaping services are not provided at the Subject Property.
- No reportable spills or releases have occurred at the Subject Property.

Mike Yasin stated on behalf of the Subject Property owner that there have not been any pending, threatened, or past:

- Litigation relevant to hazardous substances or petroleum products in, on, or from the Subject Property;
- Administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the Subject Property; or
- Notices from a governmental entity regarding violations of environmental laws or liability relating to hazardous substances or petroleum products.

9.0 SITE RECONNAISSANCE

Farallon conducted a site reconnaissance on February 10, 2023 to observe the Subject Property for physical evidence of recognized environmental conditions. The methodology used for the site reconnaissance and the observations made and limiting conditions encountered are discussed below. Photographs taken during the site reconnaissance are presented in Appendix B.

9.1 SITE RECONNAISSANCE METHODOLOGY

Weather conditions at the time of the reconnaissance were sunny, with a temperature of approximately 80 degrees Fahrenheit. Farallon conducted a walk around the entire perimeter of the Subject Property and inspected accessible interior portions of the Subject Property building.

9.1.1 Limiting Conditions

Limiting conditions encountered during this Phase I ESA were the presence of motor vehicles on exterior portions of the Subject Property that prevented Farallon from observing the entire ground surface of the Subject Property, and the presence of furniture and equipment in the Subject Property building that prevented Farallon from observing entire interior floor surfaces. Additionally, the southern portion of the Subject Property was overgrown with natural vegetation. Based on information obtained from the Subject Property representative, these limiting conditions are not expected to affect the conclusions of this Phase I ESA Report.

9.2 INTERIOR OBSERVATIONS

Farallon's comments related to observations of the interior of the Subject Property building(s) during the site reconnaissance are provided in Section 9.2.1.

INTERIOR OBSERVATIONS	YES	NO
Odor(s)	X	
Heating/Cooling System(s)	X	
Drain(s) and/or Sump(s)		X
Staining and/or Corrosion	X	
Storage Tank(s), Vent Pipe(s), Fuel Port(s), and/or Fill Pipe(s)		X
Clarifier(s)	X	
Drum(s) and/or Other Container(s)	X	
Pool(s) of Liquid		X
Automobile Lift(s)	X	
Well(s)		X

INTERIOR OBSERVATIONS	YES	NO
Hazardous Material(s) and/or Petroleum Product(s)	X	
Hazardous Waste(s)	X	
PCB-Containing Item(s)		X

9.2.1 Interior Observation Comments

Odor(s)

Farallon detected a hydrocarbon odor in the maintenance garage from the automotive repair activities.

Heating/Cooling System(s)

The Subject Property building is cooled by a window mounted air conditioning unit.

Staining and/or Corrosion

Farallon observed significant petroleum staining throughout the auto repair shop. The staining appeared to be related to releases from motor vehicles, and from storage and handling of maintenance-related products. The potential release of hazardous substances associated with the long-term auto repair operations conducted at the Subject Property represents a recognized environmental condition in connection with the Subject Property.

Clarifier(s)

Farallon observed patched concrete in the auto repair shop, which appeared to be from a former clarifier. The Subject Property representative did not have additional information regarding this feature.

Drum(s) and/or Other Container(s)

Farallon observed a Cintas mobile parts washer in the auto repair shop, which used a nonhazardous water-based cleaning solution. Several approximately 3- to 5-gallon new oil containers were observed in the office area of the Subject Property building. The new oil is poured into transfer containers and taken to the auto repair shop. New batters and other automotive-related chemicals were stored in containers of 1 gallon or less, were observed to be stored in the office area of the Subject Property. De minimis staining was observed throughout the office area.

Automobile Lift(s)

Farallon observed two aboveground vehicle lifts. According to the Subject Property representative, the hydraulic equipment for the lifts and racks is aboveground, and no in-ground hydraulic equipment is present. No staining or evidence of release was observed on or around the hydraulic equipment. A former in-ground piston lift was located in the auto repair shop and appeared abandoned. The Subject Property representative did not have additional information regarding this feature.

Hazardous Material(s) and/or Petroleum Product(s)

Farallon observed hazardous materials as discussed above.

Hazardous Waste(s)

Farallon observed various 35- and 55-gallon drums of used vehicle maintenance-related materials, including oils, coolants, used oil filters, and oily rags in the hazardous waste storage area in the southeastern portion of the auto repair shop. Several 5-gallon buckets were observed to contain metal shavings from a lathe stored in the hazardous waste storage area. Secondary containment was observed surrounding the hazardous waste storage area. These materials reportedly are transported off the Subject Property for proper disposal by Cintas on a weekly basis.

9.3 EXTERIOR OBSERVATIONS

Farallon's comments related to observations of the exterior of the Subject Property during the site reconnaissance are provided in Section 9.3.1.

EXTERIOR OBSERVATIONS	YES	NO
Odor(s)		X
Staining and/or Corrosion	X	
Storage Tank(s), Vent Pipe(s), and/or Fuel Port(s)		X

EXTERIOR OBSERVATIONS	YES	NO
Clarifier(s)		X
Drum(s) and/or Other Container(s)		X
Pool(s) of Liquid		X
Hazardous Material(s) and/or Petroleum Product(s)		X
Hazardous Waste(s)		X
Pit(s), Pond(s), and/or Lagoon(s)		X
Stressed Vegetation		X
Solid (Nonhazardous) Waste(s)—Evidence of Dumping		X
Wastewater	X	
Domestic Water	X	
Well(s)		X
Septic/Sewer System(s)		X
Stormwater	X	
PCB-Containing Item(s)		X
Significant Amount of Fill Material		X

9.3.1 Exterior Observation Comments

Staining and/or Corrosion

Farallon observed de minimis petroleum staining throughout paved areas of the Subject Property that appeared to be from parked and under repair motor vehicles on the Subject Property.

Wastewater

At the time of the site reconnaissance, vehicle engine washing was observed outside and southeast of the Subject Property building. Wastewater that had been used to wash a vehicle engine appeared to drain into the grass landscape south of the Subject Property building, infiltrating the soil, however oil staining was not observed.

Domestic Water

According to the Subject Property representative, sewer service is provided by Poulton public utilities.

Stormwater

Stormwater on paved areas of the Subject Property is directed into catch basins in adjoining streets, which discharge to the municipal stormwater system. Stormwater on unpaved surfaces at the Subject Property infiltrates into the ground surface.

10.0 ADDITIONAL SERVICES

At the request of the User, Farallon conducted additional environmental services beyond the scope of services required to satisfy ASTM E1527-21, to evaluate the Subject Property for business environmental risk. These additional services are considered a deviation from ASTM E1527-21. Only the services included in the Authorization are discussed below. The term "business environmental risk" is defined in ASTM E1527-21 as a risk that can have material environmental or environmentally driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice.

10.1 RADON

Radon is a colorless, tasteless, radioactive gas with an EPA-specified action level of 4.0 picocuries per liter of air. Radon gas has a very short half-life of 3.8 days. The health-risk potential of radon is associated with its rate of accumulation in confined areas, particularly in confined areas near or in the ground such as basements, where vapors can readily transfer to indoor air from the ground through foundation cracks or other pathways.

According to the EDR Report, the Subject Property is in Radon Zone 2, having a predicted average indoor radon screening level of between 2 and 4 picocuries per liter. The EPA zone designation reflects the average short-term radon measurement that can be expected to be measured in a building without implementation of radon-control methods. Based on the Subject Property's location, radon is not expected to pose a human health risk to persons occupying the Subject Property.

10.2 ASBESTOS

In June 1978, EPA initiated a ban on the use of asbestos-containing material in spray application products such as structural fireproofing and acoustic ceilings, pipe lagging, joint compounds, and spackles.

Based on the building construction dates of 1966, quantities of asbestos-containing material are likely to be present at the Subject Property. Farallon commissioned an asbestos survey on behalf of the User. Nova Group conducted a nondestructive asbestos survey of the Subject Property building in accordance with ASTM E2356-18, *Standard Practice for Comprehensive Building Asbestos Surveys*, on February 16, 2023. The inspection was completed by an EPA- and California-certified asbestos building inspector. A total of 33 bulk samples and 44 analytical layers were collected and analyzed by EPA Method 600/R-93/116 using polarized light microscopy. Samples were analyzed by a LA Testing, a National Voluntary Laboratory Accreditation Program-accredited laboratory in South Pasadena, California. Asbestos-containing material was not detected in any of the samples analyzed. A copy of the Asbestos Survey Report is provided in Appendix F.

10.3 LEAD-BASED PAINT

In 1978, EPA initiated a ban on the manufacture and use of lead-based paint.

Based on the building construction date of 1966, quantities of lead-based paint are likely to be present at the Subject Property**.** Farallon commissioned a lead survey on behalf of the User. Nova Group conducted lead paint sampling of the Subject Property building on February 16, 2023. A total of three paint chip samples were collected and analyzed for total lead using Flame Atomic Absorption Spectrometry Method SW846-7000B. Samples were analyzed by LA Testing of Huntington Beach, California, an American Industrial Hygiene Association Environmental Microbiology Laboratory Accreditation Program–accredited laboratory. Lead-based paint was detected in one of the samples analyzed, described as the "red paint on fascia" located on the south exterior roof. The definition of lead-containing paint is greater than 0.5 percent by weight or 5,000 parts per million, as defined in Section 2681(9) of Title 15 of the United States Code. The lead-based paint summary letter is provided in Appendix G.

10.4 CHRONIC WATER INFILTRATION

Farallon did not observe evidence of chronic water infiltration at the time of the site reconnaissance.

11.0 FINDINGS AND OPINIONS

Farallon performed a Phase I ESA in accordance with ASTM E1527-21 and the Authorization. Significant findings are identified below.

The Subject Property appeared undeveloped in the topographic maps from 1896 through 1901. Based on aerial photographs, the Subject Property appeared as an orchard from at least 1931 through 1949. From 1953 through 1959, the northern portion of the Subject Property appeared to have been cleared and the southern portion of the Subject Property appeared to have been redeveloped with residential structures. The southern portion of the Subject Property appeared developed with residential structures through at least 2006. By 2007, the southern portion of the Subject Property appeared to have been cleared, and has remained as vacant land through the present. The current structure with a canopy was constructed in 1966 and has remained similar to the present, with the exception of the canopy, which was demolished by 2021. City directory listings for the Subject Property address included Jerry's Auto Service in 2000; and GT Pit Stop from 2005 through 2014.

The potential release of hazardous substances associated with the long-term auto repair operations conducted at the Subject Property represents a recognized environmental condition in connection with the Subject Property.

Given the historical use of the Subject Property, it is possible that pesticides and other agricultural chemicals may have been applied to the property and residual soil impacts may be present. Although this historical use is not considered a recognized environmental condition, Farallon cannot confirm that shallow subsurface soil was not adversely impacted from the possible former application of pesticides and/or herbicides. Based on the current use of the Subject Property for commercial purposes, potential residual impacts associated with historical agricultural uses is considered a de minimis condition in connection with the Subject Property.

The EDR Report identified the Subject Property address in several databases. According to the EDR Report, the Subject Property had three 7,500- or 8,000-gallon gasoline USTs and a 550-gallon waste oil UST. Additional information regarding the USTs on the Subject Property was not available. Farallon searched the GeoTracker, EnviroStor, and CalEPA databases for the Subject Property address and reviewed available information. Additionally, regulatory files for the Subject Property were requested; according to the San Bernardino County Environmental Health Services, no files for the Subject Property were available. The insufficient information regarding the three 7,500- or 8,000-gallon gasoline USTs and a 550-gallon waste oil UST at the Subject Property is considered a significant data gap for this report and represents a recognized environmental condition in connection with the Subject Property.

According to the EDR Report, Grand Terrace Gas-Up #2603 and GT Pitstop are listed as having a gasoline release to soil that was closed by San Bernardino County and the Water Board on March 15, 2000. Farallon searched the GeoTracker, EnviroStor, and CalEPA databases for the Subject Property address and reviewed available information. Additionally, regulatory files regarding this release were requested from Water Board but have not yet been made available, which represents

a significant data gap for this report. The historical release of gasoline impacting soil at the Subject Property that was granted regulatory closure represents a historical recognized environmental condition in connection with the Subject Property.

According to records provided by SCAQMD, the Subject Property had two 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST. Additionally, regulatory files for the Subject Property were requested; according to the San Bernardino County Environmental Health Services, no files for the Subject Property were available. The insufficient information regarding the two 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST at the Subject Property is considered a significant data gap for this report and represents a recognized environmental condition in connection with the Subject Property.

12.0 CONCLUSIONS

Farallon conducted a Phase I ESA for the property at 22115 Barton Road in Grand Terrace, California in conformance with the scope and limitations of ASTM E1527-21 and ASTM E1527-21. Any exceptions to or deletions from this practice are described in Section 1.5, Deviations. This Phase I ESA also satisfies the requirements of ASTM E1527-21.

Farallon identified the following significant data gaps.

- According to the EDR Report, the Subject Property had three 7,500- or 8,000-gallon gasoline USTs and a 550-gallon waste oil UST. The EDR Report lists the three gasoline USTs as either 7,500- or 8,000-gallon capacity. Additional information regarding the USTs on the Subject Property was not available. Farallon searched the GeoTracker, EnviroStor, and CalEPA databases for the Subject Property address and reviewed available information. Additionally, regulatory files for the Subject Property were requested; according to the San Bernardino County Environmental Health Services, no files for the Subject Property were available. The insufficient information regarding the three 7,500- or 8,000-gallon gasoline USTs and a 550-gallon waste oil UST at the Subject Property is considered a significant data gap for this report and represents a recognized environmental condition in connection with the Subject Property.

- According to records provided by SCAQMD, the Subject Property had two 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST. Additionally, regulatory files for the Subject Property were requested; according to the San Bernardino County Environmental Health Services, no files for the Subject Property were available. The insufficient information regarding the two 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST at the Subject Property is considered a significant data gap for this report and represents a recognized environmental condition in connection with the Subject Property.

- Grand Terrace Gas-Up #2603 and GT Pitstop are listed as having a gasoline release to soil that was closed by San Bernardino County and Water Board on March 15, 2000. Farallon searched the GeoTracker, EnviroStor, and CalEPA databases for the Subject Property address and reviewed available information. Additionally, regulatory files regarding this release were requested from Water Board but have not yet been made available, which represents a significant data gap for this report. The historical release of gasoline impacting soil at the Subject Property that was granted regulatory closure represents a historical recognized environmental condition in connection with the Subject Property.

This assessment identified the following recognized environmental conditions in connection with the Subject Property:

- The potential release of hazardous substances associated with the long-term auto repair operations conducted at the Subject Property;
- The potential release of hazardous substances associated with three 7,500- or 8,000-gallon gasoline USTs and a 550-gallon waste oil UST at the Subject Property; and

- The potential release of hazardous substances associated with two 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST at the Subject Property.

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———. 2023. *Phase I Environmental Site Assessment User Questionnaire*. Completed by Marissa Mecca, Construction Project Coordinator, Representative of the User. February 6.

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14.0 LIMITATIONS

14.1 GENERAL LIMITATIONS

The conclusions contained in this report/assessment are based on professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location. The conclusions contained herein are subject to the following inherent limitations:

- **Accuracy of Information.** Farallon obtained, reviewed, and evaluated certain information used in this report/assessment from sources that were believed to be reliable. Farallon's conclusions, opinions, and recommendations are based in part on such information. Farallon's services did not include verification of its accuracy or authenticity. Should the information upon which Farallon relied prove to be inaccurate or unreliable, Farallon reserves the right to amend or revise its conclusions, opinions, and/or recommendations.
- **Reconnaissance and/or Characterization.** Farallon performed a reconnaissance and/or characterization of the Subject Property that is the subject of this report/assessment to document current conditions. Farallon focused on areas deemed more likely to exhibit hazardous materials conditions. Contamination may exist in other areas of the Subject Property that were not investigated or were inaccessible. Subject Property activities beyond Farallon's control could change at any time after the completion of this report/assessment.

For the foregoing reasons, Farallon cannot and does not warrant or guarantee that the Subject Property is free of hazardous or potentially hazardous substances or conditions, or that latent or undiscovered conditions will not become evident in the future. Farallon's observations, findings, and opinions can be considered valid only as of the date of the report.

This report/assessment has been prepared in accordance with the contract for services between Farallon and BB Holdings CA, LLC, an Oregon limited liability company; DB Franchising USA, LLC, an Oregon limited liability company; Dutch Bros., LLC, an Oregon limited liability company; Dutch Mafia, LLC, an Oregon limited liability company; Boersma Bros. LLC, an Oregon limited liability company; and Dutch Bros Inc., a Delaware Corporation, and currently accepted industry standards. No other warranties, representations, or certifications are made.

14.2 LIMITATION ON RELIANCE BY THIRD PARTIES

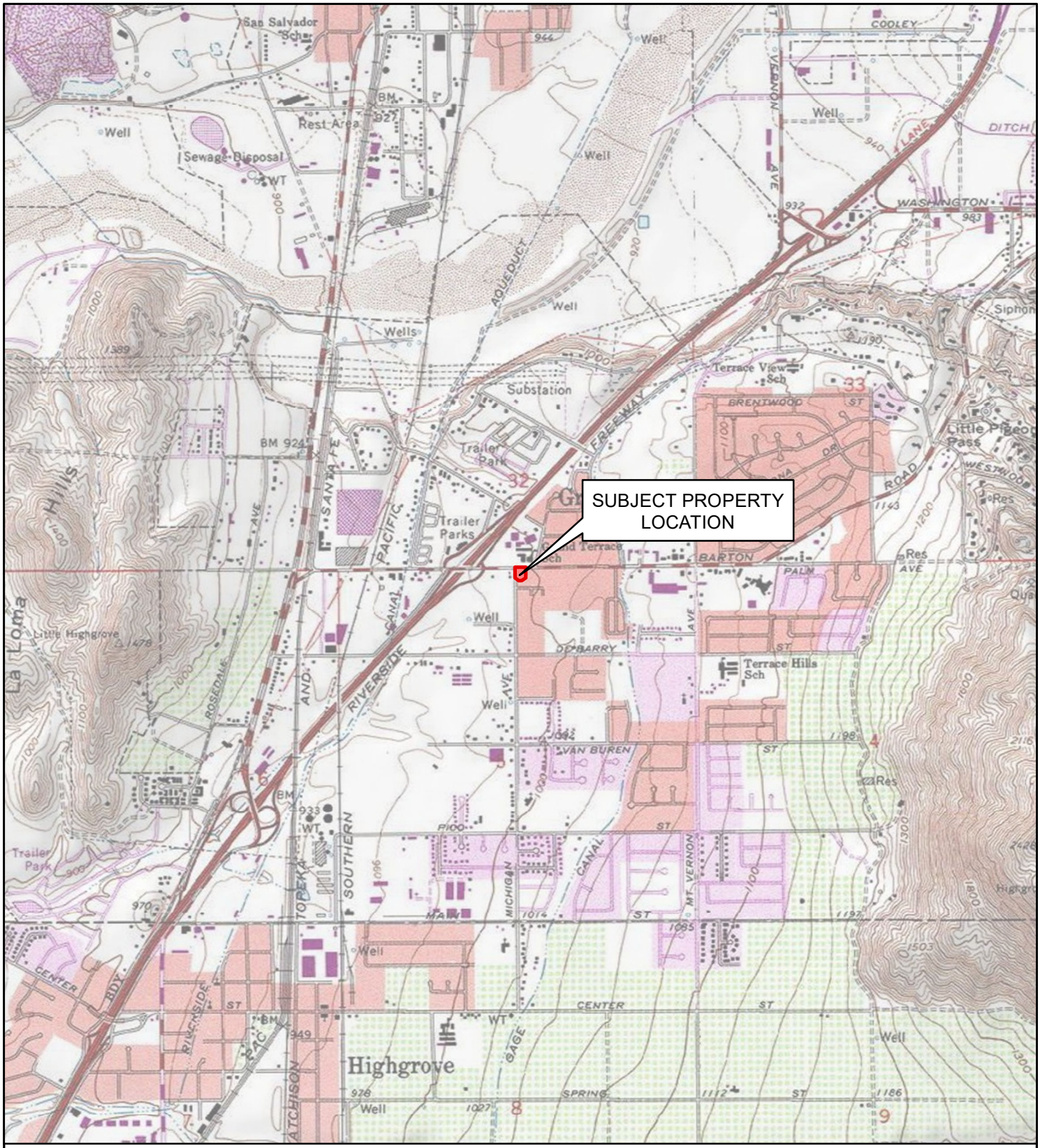
Reliance by third parties is prohibited. This report/assessment has been prepared for the exclusive use of BB Holdings CA, LLC to address the unique needs of BB Holdings CA, LLC at the Subject Property at a specific point in time. In addition, Dutch Bros., LLC; Boersma Bros. LLC; DB Franchising USA, LLC; and Dutch Mafia, LLC may also rely on this Phase I ESA Report is recognized as an intended user of this report/assessment, subject to the same limitations as BB Holdings CA, LLC.

This is not a general grant of reliance. No one other than BB Holdings CA, LLC User; Dutch Bros., LLC; Boersma Bros. LLC; DB Franchising USA, LLC; and Dutch Mafia, LLC may rely on this report unless Farallon agrees in advance to such reliance in writing. Any unauthorized use, interpretation, or reliance on this report/assessment is at the sole risk of that party, and Farallon will have no liability for such unauthorized use, interpretation, or reliance.

FIGURES

PHASE I
ENVIRONMENTAL SITE ASSESSMENT REPORT
22115 Barton Road
Grand Terrace, California

Farallon PN: 2240-250



REFERENCE: 7.5 MINUTE USGS QUADRANGLE SAN BERNARDINO SOUTH, CALIFORNIA, DATED 2013



N

0 2,000

SCALE IN FEET

FARALLON CONSULTING

Your Challenges. Our Priority. | farallonconsulting.com

Washington
Issaquah | Bellingham | Seattle

Oregon
Portland | Baker City

California
Oakland | Irvine

FIGURE 1

SUBJECT PROPERTY VICINITY MAP
22115 BARTON ROAD
GRAND TERRACE, CALIFORNIA

FARALLON PN: 2240-250

Drawn By: sgaynier | Checked By: AG | Date: 2/10/2023 | Disc Reference: Q:\Projects\2240 Dutch Bros Coffee\250 Barton Road\Mapfiles\Figure-01_SubjectPropertyVicinity.mxd



LEGEND

L — ABOVEGROUND HYDRAULIC LIFT

SUBJECT PROPERTY BOUNDARY

N

0 80

SCALE IN FEET

NOTES:
1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

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Washington
Issaquah | Bellingham | Seattle

Oregon
Portland | Baker City

California
Oakland | Irvine

FIGURE 2

SUBJECT PROPERTY PLAN
22115 BARTON ROAD
GRAND TERRACE, CALIFORNIA

FARALLON PN: 2240-250

Drawn By: sgaynier | Checked By: AG | Date: 2/21/2023 | Disc Reference:

Path: Q:\Projects\2240 Dutch Bros Coffee\250 Barton Road\Mapfiles\Figure-02_SubjectPropertyPlan.mxd

APPENDIX A
PROFESSIONAL QUALIFICATIONS

PHASE I
ENVIRONMENTAL SITE ASSESSMENT REPORT
22115 Barton Road
Grand Terrace, California

Farallon PN: 2240-250

BETH PADGETT, L.G., R.G. BS Geology
Associate Geologist 15 years' experience

Beth Padgett is an Associate Geologist with 15 years of professional experience that includes oversight and review of hundreds of All Appropriate Inquiries- and ASTM International Standard-compliant Phase I Environmental Site Assessments, Hazardous Material Assessments for incorporation into Environmental Impact Reports, and other environmental assessments. Additional experience includes managing, providing oversight for, and reviewing numerous Phase II Subsurface Investigations; soil, groundwater, and soil vapor sampling; and Aerial Deposited Lead Surveys for State freeway improvements, which involved statistical analysis and hazardous waste characterization. As an Associate Geologist with Farallon, Beth manages and supports due diligence, stormwater, and remediation projects.

CHARLES T. ESLER, CHMM BA Biology
Principal Environmental Scientist 30 years' experience

Charles Esler has 30 years of experience in providing environmental consulting services to a wide array of commercial, industrial, and public sector clients in the Pacific Northwest. He has performed and managed hundreds of environmental projects, including preliminary assessments; sediment, soil, soil gas, and groundwater investigations; remedial investigations; interim remedial actions; human health and ecological risk assessments; land use and beneficial water use determinations; and Feasibility Studies. Many of these projects involved corrective actions, including design, implementation, operation and maintenance, and closure of in- and ex-situ remediation systems (e.g., bioremediation, chemical oxidation, pump and treat, vapor extraction, stabilization, removal, and thermal treatment) under the Comprehensive Environmental Response, Compensation, and Liability Act and/or the Resource Conservation and Recovery Act. Additional areas of expertise include regulatory agency negotiations, cost/benefit analyses, cost-recovery actions, and compliance audits with immediate response oversight.

APPENDIX B
SUBJECT PROPERTY PHOTOGRAPHS

PHASE I
ENVIRONMENTAL SITE ASSESSMENT REPORT
22115 Barton Road
Grand Terrace, California

Farallon PN: 2240-250

SUBJECT PROPERTY PHOTOGRAPHS

Phase I Environmental Site Assessment Report
22115 Barton Road
Grand Terrace, California
Farallon PN: 2240-250

Photograph 1. Subject Property building.

Photograph 2. Subject Property building, looking south.

Photograph 3. Subject Property building, looking east.

Photograph 4. Subject Property building.

Photograph 5. Overgrown natural vegetation on the southern portion of the Subject Property.

Photograph 6. Paved parking on the Subject Property.

Photograph 7. Engine washing outside on the southeastern corner of the Subject Property building.

Photograph 8. New chemical storage in the office area of the Subject Property building.

Photograph 9. New oil storage and dispenser in the office area of the Subject Property building.

Photograph 10. De minimis staining in the office area of the Subject Property building.

Photograph 11. General auto repair shop in the eastern portion of the Subject Property building.

Photograph 12. Hazardous waste storage area in the southeastern portion of the auto body shop of the Subject Property building.

Photograph 13. Aboveground hydraulic lifts in the auto repair shop of the Subject Property building.

Photograph 14. Patched area inside the auto body shop; possible former clarifier.

Photograph 15. Former in-ground piston lift in the auto repair shop of the Subject Property building.

Photograph 16. North-adjoining Lions Club Community Center.

Photograph 17. Commerce Way followed by the east-adjoining Auto Zone.

Photograph 18. South-adjoining vacant land.

Photograph 19. West-adjoining ARCO gasoline station.

Photograph 20. Staining in the parking area of the Subject Property.



Photograph 1. Subject Property building.



Photograph 2. Subject Property building, looking south.



Photograph 3. Subject Property building, looking east.



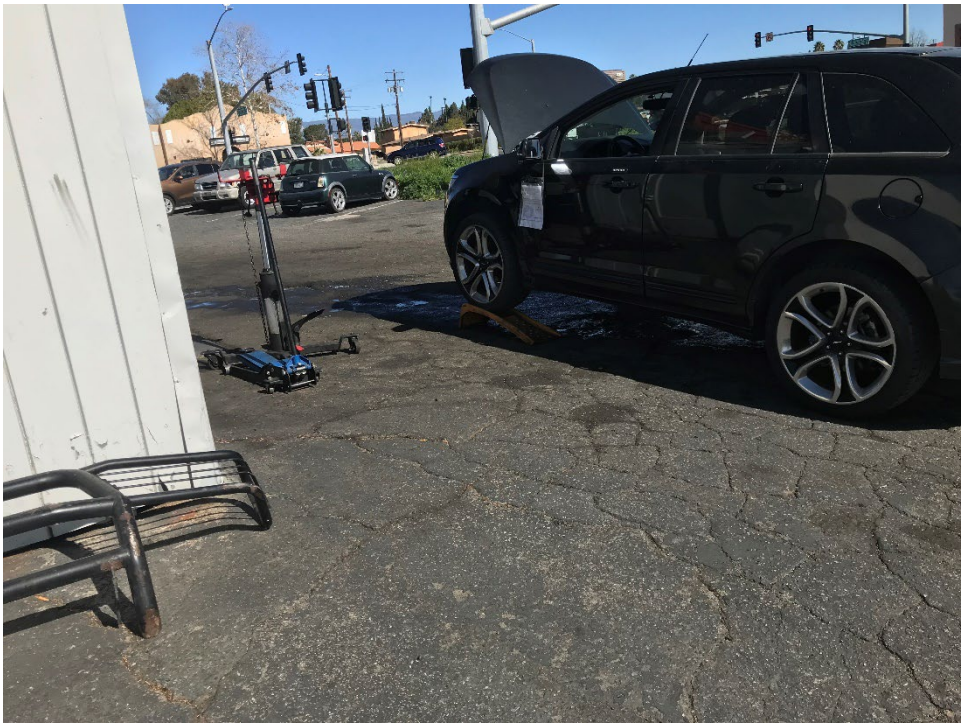
Photograph 4. Subject Property building.



Photograph 5. Overgrown natural vegetation on the southern portion of the Subject Property.



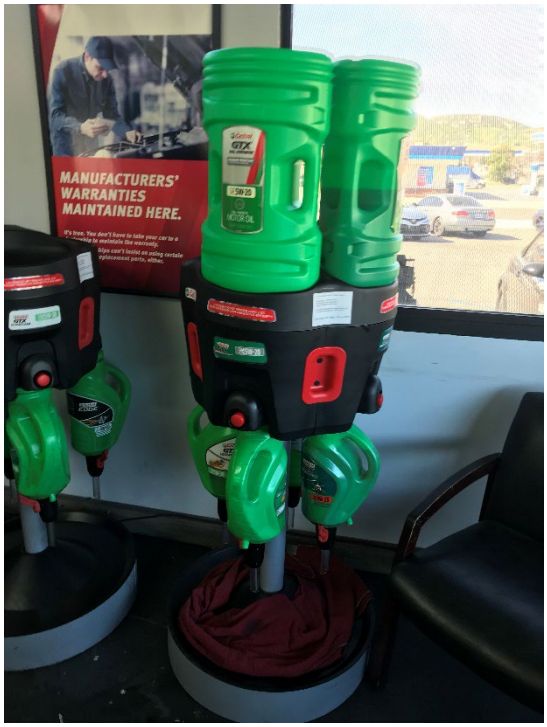
Photograph 6. Paved parking on the Subject Property.



Photograph 7. Engine washing outside on the southeastern corner of the Subject Property building.



Photograph 8. New chemical storage in the office area of the Subject Property building.



Photograph 9. New oil storage and dispenser in the office area of the Subject Property building.



Photograph 10. De minimis staining in the office area of the Subject Property building.



Photograph 11. General auto repair shop in the eastern portion of the Subject Property building.



Photograph 12. Hazardous waste storage area in the southeastern portion of the auto body shop of the Subject Property building.



Photograph 13. Aboveground hydraulic lifts in the auto repair shop of the Subject Property building.



Photograph 14. Patched area inside the auto body shop; possible former clarifier.



Photograph 15. Former in-ground piston lift in the auto repair shop of the Subject Property building.



Photograph 16. North-adjoining Lions Club Community Center.



Photograph 17. Commerce Way followed by the east-adjoining Auto Zone.



Photograph 18. South-adjoining vacant land.



Photograph 19. West-adjoining ARCO gasoline station.



Photograph 20. Staining in the parking area of the Subject Property.

APPENDIX C
USER QUESTIONNAIRE AND ENVIRONMENTAL LIEN SEARCH

PHASE I
ENVIRONMENTAL SITE ASSESSMENT REPORT
22115 Barton Road
Grand Terrace, California

Farallon PN: 2240-250

PHASE I ENVIRONMENTAL SITE ASSESSMENT
USER QUESTIONNAIRE

To qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001, the Phase I Environmental Site Assessment (Phase I ESA) Report user must provide the following information (if available) to the environmental professional (Farallon Consulting, L.L.C.). Failure to provide this information could result in the determination that "all appropriate inquiry" has not been completed.

Date: 2/6/23

■ PROJECT/SITE INFORMATION

Client Name: BB Holdings CA LLC			Client Telephone: 714-883-9092
Client Address: PO BOX 1929 GRANTS PASS OR 97528			
Asset #: CA5204	Project/Site Name: PARCEL #1167-231-11		
Project Street Address: 22115 Barton Rd			
City: Grand Terrace	County: San Bernadino	State: CA	Zip: 92313
Why is this Phase I ESA required? potential lease			

Property Transaction:

☐ Sale ☐ Purchase ☐ Exchange ■ Other

Comments: LEASE

■ PROPERTY USE & SPECIFICATIONS

☐ Single-Family Residential	☐ Vacant or Undeveloped Land
☐ Multi-Family Residential #Units:	☐ Agricultural (*Specify type)*:
☐ Commercial Office	☐ Industrial (*Specify type)*:
■ Commercial Retail	☐ Other (*Specify type)*:

Provide a general Site description: CONSTRUCTION OF DRIVE THRU COFFEE STAND

Legal description/plat plan/boundary survey available? ☐ Yes ☐ No ■ Already provided

Current Property Status: ☐ Vacant ☐ Occupied ■ Improved ☐ Unimproved

Total Property Size: 42,207 Original Construction Date:

Total # of Buildings: 1 Was Construction Phased? ☐ Yes ☐ No ■ Unknown

Total Sq. Ft. of Buildings: ~2100 sqft Date(s) of Renovation(s)/Phases:

Does Site have an undeveloped area equal to 1 acre or more? ☐ Yes ■ No

Are any bodies of water on or immediately adjacent to the Site? ☐ Yes ■ No If Yes, describe:
Comments:

Potable water source at Site? ☐ On-Site well ■ Utility (*Specify provider)*

Wastewater discharge at Site? ☐ Septic Tank/Drainfield ■ Sanitary Sewer ☐ Other (Specify):

Building plans available at the Site? ☐ Yes ■ No ☐ Unknown ☐ Already provided

■ OWNERS

Current Owner(s): SEE TITLE REPORT, PREVIOUSLY PROVIDED

Previous Owner(s): SEE TITLE REPORT, PREVIOUSLY PROVIDED

■ OCCUPANTS/TENANTS

Current Occupant(s)/Tenant(s) and operations: N/A

Previous Occupant(s)/Tenant(s) and operations: N/A

■ PREVIOUS PROPERTY USES

Describe previous use(s) of the Site: N/A

■ PREVIOUS INVESTIGATIONS

Has any previous environmental investigation been conducted at Site? ☐ Yes ☐ No ■ Unknown

If Yes, note type and describe: ☐ Phase I ESA ☐ Asbestos ☐ Lead Paint ☐ Lead in Water

☐ Radon ☐ Wetlands ☐ Indoor Air ☐ UST/AST ☐ Other (*Specify type below)*

Comments:

■ ON-SITE ENVIRONMENTAL CONDITIONS

Are you aware of any of the following environmental conditions at the Site, either current or former?

Environmental Condition/Issue	**Response**	**Comment if Yes Response**
Aboveground Storage Tank	☐ Yes ■ No	
Underground Storage Tank	☐ Yes ■ No	
Hazardous/Toxic Substance	☐ Yes ■ No	
Stored Chemical	☐ Yes ■ No	
Chemical Spill/Release	☐ Yes ■ No	
Dump Area/Landfill	☐ Yes ■ No	
Waste Treatment System	☐ Yes ■ No	
Wastewater Discharge	☐ Yes ■ No	
Air Stack/Vent/Odor	☐ Yes ■ No	
Indoor Air Quality Complaint	☐ Yes ■ No	

Floor Drain/Sump	☐ Yes ■ No	
Pit, Pond, Lagoon	☐ Yes ■ No	
Stained Soil/Vegetation Impact	☐ Yes ■ No	

Other specialized knowledge of an environmental condition or issue at the Site?

■ ADDITIONAL ON-SITE ENVIRONMENTAL CONDITIONS

Are you aware of any of the following environmental conditions on the Site, either current or former?

Environmental Condition/Issue	Response	Comment if Yes Response
Pesticide/Herbicide Use	☐ Yes ■ No	
Polychlorinated Biphenyls	☐ Yes ■ No	
Electrical Transformer	☐ Yes ■ No	
Hydraulic Lift	☐ Yes ■ No	
Elevator	☐ Yes ■ No	
Drycleaner Business	☐ Yes ■ No	
Asbestos	☐ Yes ■ No	
Lead Paint	☐ Yes ■ No	
Lead Piping/Lead in Water	☐ Yes ■ No	
Elevated Radon Level	☐ Yes ■ No	
Fluorescent Light Fixture	☐ Yes ■ No	
Wetland, Flooding	☐ Yes ■ No	
Unique Wildlife Species	☐ Yes ■ No	
Archeological Resource	☐ Yes ■ No	
Historic/National Landmark	☐ Yes ■ No	
Oil/Gas Well	☐ Yes ■ No	
Water Well	☐ Yes ■ No	
Environmental Cleanup	☐ Yes ■ No	
Environmental Permit	☐ Yes ■ No	

■ OFF-SITE ENVIRONMENTAL CONDITIONS

On adjoining property, are there any: Gasoline Stations? ☐ Yes ☐ No Drycleaners? ☐ Yes ■ No

Are you aware of any other environmental conditions or concerns on adjacent or nearby properties? ☐ Yes ■ No

Comments

(1) Environmental cleanup liens that have been filed or recorded against the Site (Part 312.25 of Title 40 of the Code of Federal Regulations [40 CFR 312.25])

Are you aware of any environmental cleanup liens against the Site that have been filed or recorded under federal, tribal, state, or local law?

NO

(2) Activity and land use limitations that are in place at the Site or that have been filed or recorded in a registry (40 CFR 312.26)

Are you aware of any activity and land use limitation (such as engineering controls, land use restrictions, or institutional controls) that are in place at the Site and/or have been filed or recorded in a registry under federal, tribal, state, or local law?

NO

(3) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28)

As the user of the Phase I ESA Report, do you have any specialized knowledge or experience related to the Site or nearby properties? For example, are you involved in the same line of business as the current or former occupant(s) of the Site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

NO

(4) Relationship of the purchase price to the fair market value of the Site if it were not contaminated (40 CFR 312.29)

Does the purchase price being paid for this Site reasonably reflect the fair market value of the Site? If you conclude that there is a difference between the purchase price and the fair market value, have you considered whether the lower purchase price is because contamination is known or believed to be present at the Site?

N/A

(5) Commonly known or reasonably ascertainable information about the property (40 CFR 312.30)

Are you aware of commonly known or reasonably ascertainable information about the Site that would help Farallon Consulting, L.L.C. to identify conditions indicative of a chemical or other release or threatened release? For example, as user of the Phase I ESA Report:

Do you know the past use(s) of the Site? (If yes, please specify.)

NO

Do you know of a specific chemical(s) present at the Site, or present at one time? (If yes, please specify.) NO

Do you know of a chemical and/or other spill(s) or release(s) that have taken place at the Site? (If yes, please specify.)

NO

Do you know of any environmental cleanup(s) that have taken place at the Site? (If yes, please specify.)

NO

(6) The degree of obviousness of the presence or likely presence of contamination at the Site, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31)

As the user of the Phase I ESA Report, based on your knowledge and experience related to the Site, is there any obvious indicator(s) that point to the presence or likely presence of contamination at the Site? (If yes, please specify.)

NO

Identify all parties who will rely on the Phase I ESA Report, including:

Name of Business: RELIANCE PARTIES PREVIOUSLY PROV

Name of Contact:

Address:

Telephone Number:

E-mail Address:

Has any party that will rely on the Phase I ESA Report required services beyond the standard ASTM E1527-13? (For example, an asbestos, lead-based paint, lead in drinking water, or wetlands investigation) (If yes, please specify.)

NO

Who is the Site contact, and how can the contact be reached?

Name of Business:

Name of Contact: Mike Yasin

Address:

Telephone Number: 949-701-1769

E-mail Address: M1yasin@yahoo.com

Are there any special terms and conditions that must be agreed upon by Farallon Consulting, L.L.C.? (If yes, please specify.)

NO INVASIVE TESTING WITHOUT PRIOR LANDLORD APPROVAL.
OTHER TERMS AS SET FORTH IN MASTER AGREEMENT BETWEEN CLIENT AND FARALLON AND SERVICE ORDER FOR THIS PROJECT.

CA5204
22115 Barton Road
Grand Terrace, CA 92313

Inquiry Number: 7244253.7
February 06, 2023

EDR Environmental Lien and AUL Search

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

22115 Barton Road
CA5204
Grand Terrace, CA 92313

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found ☐ Not Found ☒

RESEARCH SOURCE

Source 1:

San Bernardino Recorder
San Bernardino, CA

PROPERTY INFORMATION

Deed 1:

Type of Deed:	deed
Title is vested in:	City of grand Terrace
Title received from:	San Bernardino County Tax Auth
Deed Dated	10/6/2022
Deed Recorded:	10/21/2022
Book:	NA
Page:	na
Volume:	na
Instrument:	na
Docket:	NA
Land Record Comments:	
Miscellaneous Comments:	
Legal Description:	See Exhibit
Legal Current Owner:	City of Grand Terrace
Parcel # / Property Identifier:	1167-231-10-0000
Comments:	See Exhibit

Deed 2:

Type of Deed:	deed
Title is vested in:	Salam A Yasin Trustee
Title received from:	Salam A Yasin
Deed Dated	7/20/2020
Deed Recorded:	4/22/2021
Book:	NA
Page:	na
Volume:	na
Instrument:	na
Docket:	NA
Land Record Comments:	
Miscellaneous Comments:	
Legal Description:	See Exhibit
Legal Current Owner:	Salam A Yasin Trustee
Parcel # / Property Identifier:	1167-231-11-0000
Comments:	See Exhibit

Deed Exhibit 1

RECORDING REQUESTED BY
FIDELITY NATIONAL TITLE

RECORDING REQUESTED BY AND:
WHEN RECORDED MAIL TO:

City of Grand Terrace
22795 Barton Road
Grand Terrace, CA 92313
30070262

Electronically
Recorded in Official Records
San Bernardino County

Assessor-Recorder-County Clerk

DOC# 2022-0349432

10/21/2022	Titles: 1	Pages: 6	
08:32 AM			
SAN	Fees		$0.00
	Taxes		$0.00
F3010	CA SB2 Fee		$0.00
	Total		$0.00

APNs. 1167-231-10 and portion of 1167-231-22
THE UNDERSIGNED GRANTOR DECLARES:
Documentary Transfer Tax is: $-0- per R&T §11922

SPACE ABOVE RESERVED FOR RECORDER'S USE
Exempt from recording fees per Govt Code 27383

GRANT DEED

FOR VALUE RECEIVED, receipt of which is hereby acknowledged, the **SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY**, a public agency ("**Grantor**") hereby grants to the **CITY OF GRAND TERRACE**, a general law city ("**Grantee**") all that certain real property situated in the City of Grand Terrace, County of San Bernardino, State of California, more fully described and depicted in EXHIBITS "A" and "B" attached hereto and incorporated herein by this reference.

Dated: Oct. 6, 2022

SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY, a public agency

Raymond W. Wolfe, PhD By: _____
Raymond W. Wolfe, PhD
Executive Director

AKA Raymond Walter Wolfe

Certificate of Acceptance Attached

Mail tax statements To same As Above

CALIFORNIA ACKNOWLEDGMENT **CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of San Bernardino }

On October 6, 2022 before me, Anna Aldana, Notary Public,
Date *Here Insert Name and Title of the Officer*

personally appeared Raymond Walter Wolfe
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

ANNA ALDANA
Notary Public - California
San Bernardino County
Commission # 2354270
My Comm. Expires Apr 13, 2025

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Anna Aldana
Signature of Notary Public

Place Notary Seal and/or Stamp Above

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: Grant Deed APNs: 1167-231-10 and portion of 1167-231-22

Document Date: October 6, 2022 Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____	Signer's Name: _____
☐ Corporate Officer – Title(s): _____	☐ Corporate Officer – Title(s): _____
☐ Partner – ☐ Limited ☐ General	☐ Partner – ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other: _____	☐ Other: _____
Signer is Representing: _____	Signer is Representing: _____

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EXHIBIT "A" TO GRANT DEED

Legal Description

That certain real property in the City of Grand Terrace, County of San Bernardino, State of California legally described as follows:

All that certain real property in the City of Grand Terrace, County of San Bernardino, State of California, described as follows:

That portion of Lot 4 in Section 5, Township 2 South, Range 4 West, SAN BERNARDINO MERIDIAN, in the County of San Bernardino, State of California, according to the Map showing Lands of East Riverside Land Company as per Map recorded in Book 6, page 44 of Maps, in the office of the County Recorder of said County, described as following:

COMMENCING at the intersection of the South right of way line of Barton Road (50.00feet half width) as described in a grant deed to the County of San Bernardino, recorded April 28, 1965 in Book 6380, page 315 of Official Records of said County, and the easterly right of way line of Michigan Avenue (44.00 feet half width) as described in a grant deed to the City of Grand Terrace, recorded September 4, 1965 as Instrument 86-255660 of Official Records of said County; thence along said easterly right of way line, South 0°25'52" East, 125.00 feet to the **POINT OF BEGINNING**, as shown on Caltrans District 08 Right of Way Map RW000216-4, said point being the beginning of a non-tangent curve, concave westerly, having a radius of 52.00 feet, to which a radial line bears North 44°57'54" East; thence southerly along said curve, through a central angle of 89°13'06" an arc length of 80.97 feet to said easterly right of way line; thence South 0°25'52" East, 77.64 feet to the northwesterly right of way line of Commerce Way and being the beginning of a non-tangent curve, concave northwesterly, having a radius of 230.00 feet, to which a radial line bears South 22°04'44" East; thence northeasterly along said curve, through a central angle of 44°18'13" an arc length of 177.85 feet; thence North 23°37'03" East, 33.91 feet; thence leaving said westerly right of way line South 89°25'31" West, 139.01 feet to the **POINT OF BEGINNING**.

Containing 12,800 Square feet, more or less

The distances used in the above description are based on the California Coordinate System of 1983, (2007) Zone 5. Divide all distances used in the above description by 0.9999594 to obtain ground level distances.

This real property description has been prepared by me, or under my direction, in conformance with the Professional Land Surveyors' Act.

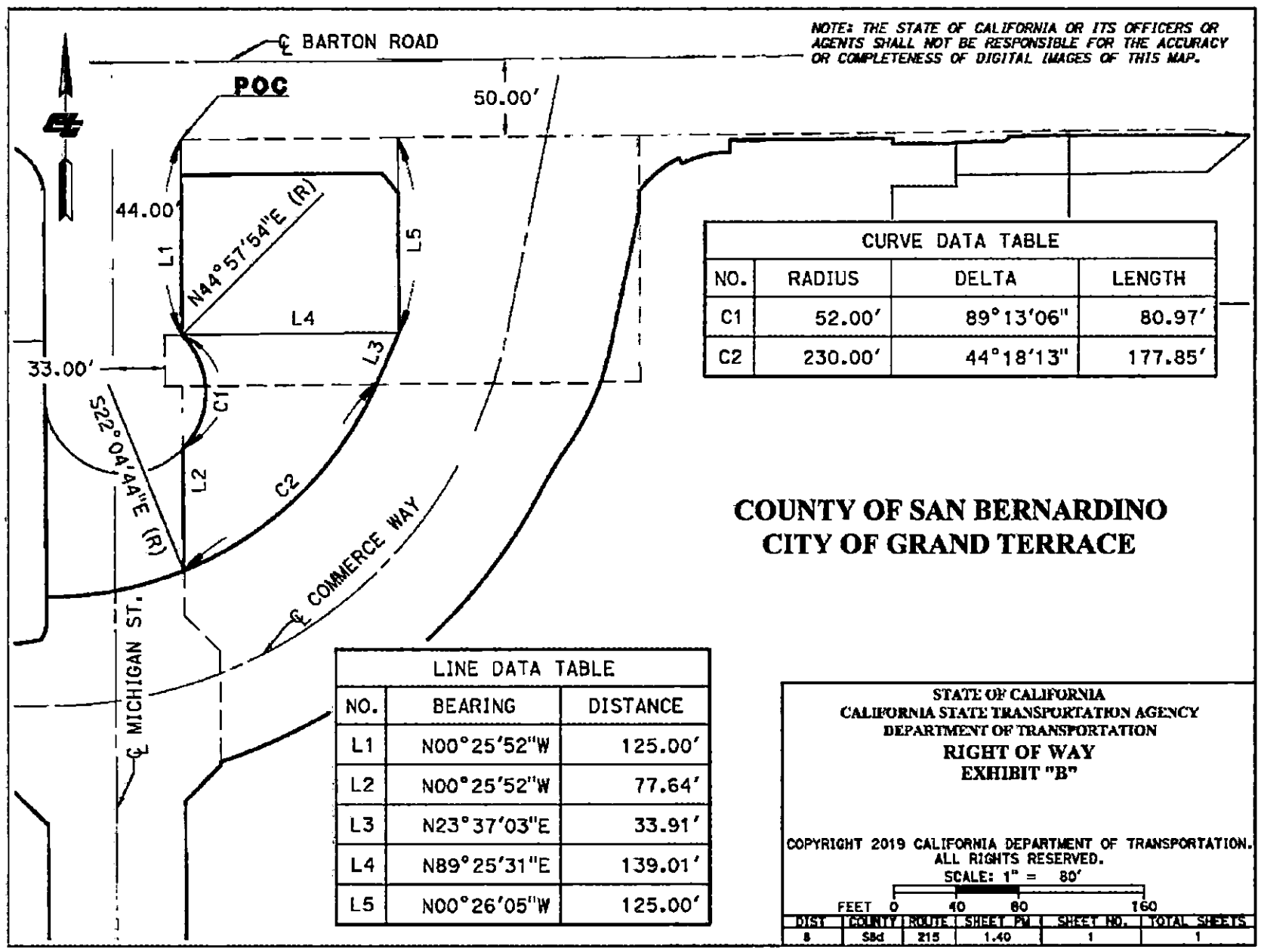
Signature: _____
Professional Land Surveyor

Date: 6/18/21



EXHIBIT "B" TO GRANT DEED

Map



CERTIFICATE OF ACCEPTANCE

This is to certify that the interest in real property conveyed by SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY, a public agency to the CITY OF GRAND TERRACE ("**City**"), is hereby accepted by the undersigned officer and agent of City and the City consents to the recording of the Grant Deed.

Signed and dated on August 31, 2022 at City of Grand Terrace, California.

GRANTEE

CITY OF GRAND TERRACE, a general law city

By: _____

Konrad Bolowich, City Manager

GOVERNMENT CODE 27361.7

I certify under penalty of perjury that the notary seal on the document to which this statement is attached reads as follows:

Name of Notary	:	**ANNA ALDANA**
Notary Identification Number	:	**2354270**
County Where Bond Is Filed	:	**SAN DIEGO**
Date Commission Exp	:	**APR 13, 2025**
Vendor Number	:	**NNA1**
Place of Execution	:	***RIVERSIDE***

DATE: 10 / 20 / 2022

FIDELITY TITLE COMPANY

Signature Veronica Elizalde

I CERTIFY UNDER PENALTY OF PERJURY THAT THIS MATERIAL IS A TRUE COPY OF THE ORIGINAL MATERIAL CONTAINED IN THE DOCUMENT: ATTACHED FOR CLARITY

RAYMOND W. WOLFE

AKA RAYMOND WALTER WOLFE

Place of Execution: RIVERSIDE

DATE: 10 / 20 / 2022

FIDELITY TITLE COMPANY

Signature Veronica Elizalde

Deed Exhibit 2

Recording Requested By
USA National Title Co.

WHEN RECORDED MAIL TO:

SALAM YASIN
22975 ORANGEWOOD COURT
GRAND TERRACE, CA 92313

A.P.N. 1167-231-11

Electronically
Recorded in Official Records
County of San Bernardino
Bob Dutton
Assessor-Recorder-County Clerk

DOC# 2021-0187462

04/22/2021 01:09 PM	Titles: 1	Pages: 3	
SAN	Fees		$30.00
	Taxes		$0.00
B9246	CA SB2 Fee		$75.00
	Total		$105.00

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO:

SALAM YASIN
22975 ORANGEWOOD COURT
GRAND TERRACE, CA 92313

Undersigned Grantor Declares:

DOCUMENTARY TRANSFER TAX
County: $ -0- City: -0-
( ) Computed on the consideration or value of property conveyed, OR
( ) Computed on the consideration or value less liens or encumbrances remaining at time of sale.
This conveyance transfers an interest into or out of a Living Trust, R & T 11930.

X

QUITCLAIM DEED

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

SALAM A. YASIN

hereby REMISES, RELEASES AND FOREVER QUITCLAIMS to:

SALAM YASIN, as Trustee of the SALAM YASIN LIVING TRUST dated July 12, 2020

the property referred to herein in the City of Grand Terrace, San Bernardino County, State of California, described as:

LEGAL DESCRIPTION IS ATTACHED HERETO AS EXHIBIT "A" AND MADE A PART HEREOF

Commonly known as: 22115 Barton Road, Grand Terrace, CA 92313

Dated 7-20-2020

SALAM A. YASIN

SEE ATTACHED ACKNOWLEDGMENT

MAIL TAX STATEMENT TO ADDRESS SHOWN ABOVE

11.

Attachment to Quitclaim Deed
Re: APN: 1167-231-11

A Notary Public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
)
COUNTY OF San Bernardino

On Oct. 20, 2020, before me, JASPREET KAUR, Notary Public, personally appeared SALAM A. YASIN, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that ~~he~~/she/~~they~~ executed the same in ~~his~~/her/~~their~~ authorized capacity(~~ies~~), and that by ~~his~~/her/~~their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: Jaspreet Kaur
Signature of Notary Public

JASPREET KAUR
COMM. #2250547
NOTARY PUBLIC - CALIFORNIA
SAN BERNARDINO COUNTY
My Comm. Expires Aug. 16, 2022

Place Notary Seal Above

EXHIBIT A

THAT PORTION OF LOT 4, IN SECTION 5, TOWNSHIP 2 SOUTH, RANGE 4 WEST, SAN BERNARDINO MERIDIAN, ACCORDING TO MAP SHOWING LANDS OF EAST RIVERSIDE LAND COMPANY, IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 6, PAGE 44 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE SOUTHERLY LINE OF BARTON ROAD, (66 FEET WIDE), FORMERLY PALM AVENUE, AND THE EASTERLY LINE OF MICHIGAN AVENUE (66 FEET WIDE), AS SHOWN IN BOOK 19, PAGE 4 OF RECORD OF SURVEYS, RECORDED ON OCTOBER 3, 1961, IN THE OFFICE OF THE COUNTY RECORDER OF SAID SAN BERNARDINO COUNTY; THENCE SOUTH 00° 01' 14" EAST, ALONG SAID EASTERLY LINE OF MICHIGAN AVENUE, 142.00 FEET;
THENCE NORTH 89° 50' 33" EAST, PARALLEL WITH SAID SOUTHERLY LINE OF BARTON ROAD, 150.00 FEET;
THENCE NORTH 0° 01' 14" WEST, PARALLEL WITH SAID LINE OF MICHIGAN AVENUE, 142.00 FEET TO SAID SOUTHERLY LINE OF BARTON ROAD;
THENCE SOUTH 89° 50' 33" WEST, ALONG SAID SOUTHERLY LINE OF BARTON ROAD, 150.00 FEET TO THE POINT OF BEGINNING.

EXCEPT THAT PORTION CONVEYED TO THE COUNTY OF SAN BERNARDINO, BY DEED RECORDED APRIL 28, 1965 IN BOOK 6380, PAGE 315, OFFICIAL RECORDS, DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE SOUTHERLY LINE OF BARTON ROAD, 66.00 FEET WIDE, (FORMERLY PALM AVENUE) AND THE EASTERLY LINE OF MICHIGAN STREET, 66.00 FEET WIDE, AS SHOWN ON MAP RECORDED IN BOOK 19, PAGE 4 RECORD OF SURVEYS ON FILE IN THE OFFICE OF THE COUNTY RECORDER;
THENCE NORTH 89° 50' 33" EAST ALONG SAID SOUTHERLY LINE OF BARTON ROAD A DISTANCE OF 150.00 FEET;
THENCE SOUTH 0° 01' 14" EAST ALONG A LINE PARALLEL WITH THE CENTER LINE OF SAID MICHIGAN STREET, A DISTANCE OF 17.00 FEET TO AN INTERSECTION WITH A LINE THAT IS PARALLEL WITH, AND DISTANT 50.00 FEET SOUTH OF THE CENTER LINE OF SAID BARTON ROAD; THENCE SOUTH 89° 50' 33" WEST ALONG SAID PARALLEL LINE A DISTANCE OF 130.05 FEET TO THE BEGINNING OF A TANGENT CURVE CONCAVE TO THE SOUTHEAST, HAVING A RADIUS OF 20.00 FEET;
THENCE SOUTHWESTERLY ALONG SAID TANGENT CURVE, THROUGH AN ANGLE OF 89° 51' 47" A DISTANCE OF 31.37 FEET TO A POINT OF TANGENCY WITH THE EAST LINE OF SAID MICHIGAN STREET;
THENCE NORTH 0° 01' 14" WEST ALONG SAID EASE LINE OF MICHIGAN STREET, A DISTANCE OF 36.95 FEET TO THE POINT OF BEGINNING.

EXCEPTING THEREFROM THAT PORTION AS CONVEYED TO THE CITY OF GRAND TERRACE BY DEED RECORDED SEPTEMBER 4, 1986 AS INSTRUMENT NO. 86-255660 OFFICIAL RECORDS.

APN 1167-231-11

APPENDIX D
HISTORICAL AERIAL PHOTOGRAPHS

PHASE I
ENVIRONMENTAL SITE ASSESSMENT REPORT
22115 Barton Road
Grand Terrace, California

Farallon PN: 2240-250

CA5204

22115 Barton Road

Grand Terrace, CA 92313

Inquiry Number: 7244253.11

February 03, 2023

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

02/03/23

Site Name:

CA5204
22115 Barton Road
Grand Terrace, CA 92313
EDR Inquiry # 7244253.11

Client Name:

Farallon Consulting, LLC
4380 South Macadam Avenue, Suite 50(
Portland, OR 97239
Contact: Amanda Garcia

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2020	1"=500'	Flight Year: 2020	USDA/NAIP
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2002	1"=500'	Acquisition Date: January 01, 2002	USGS/DOQQ
1995	1"=500'	Acquisition Date: January 01, 1995	USGS/DOQQ
1989	1"=500'	Flight Date: August 15, 1989	USDA
1985	1"=500'	Flight Date: July 28, 1985	USDA
1978	1"=500'	Flight Date: September 20, 1978	USDA
1975	1"=500'	Flight Date: August 01, 1975	USGS
1967	1"=500'	Flight Date: May 15, 1967	USDA
1959	1"=500'	Flight Date: October 15, 1959	USDA
1953	1"=500'	Flight Date: January 23, 1953	USDA
1949	1"=500'	Flight Date: May 06, 1949	USDA
1938	1"=500'	Flight Date: June 14, 1938	USDA
1931	1"=500'	Flight Date: September 18, 1931	FAIR

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

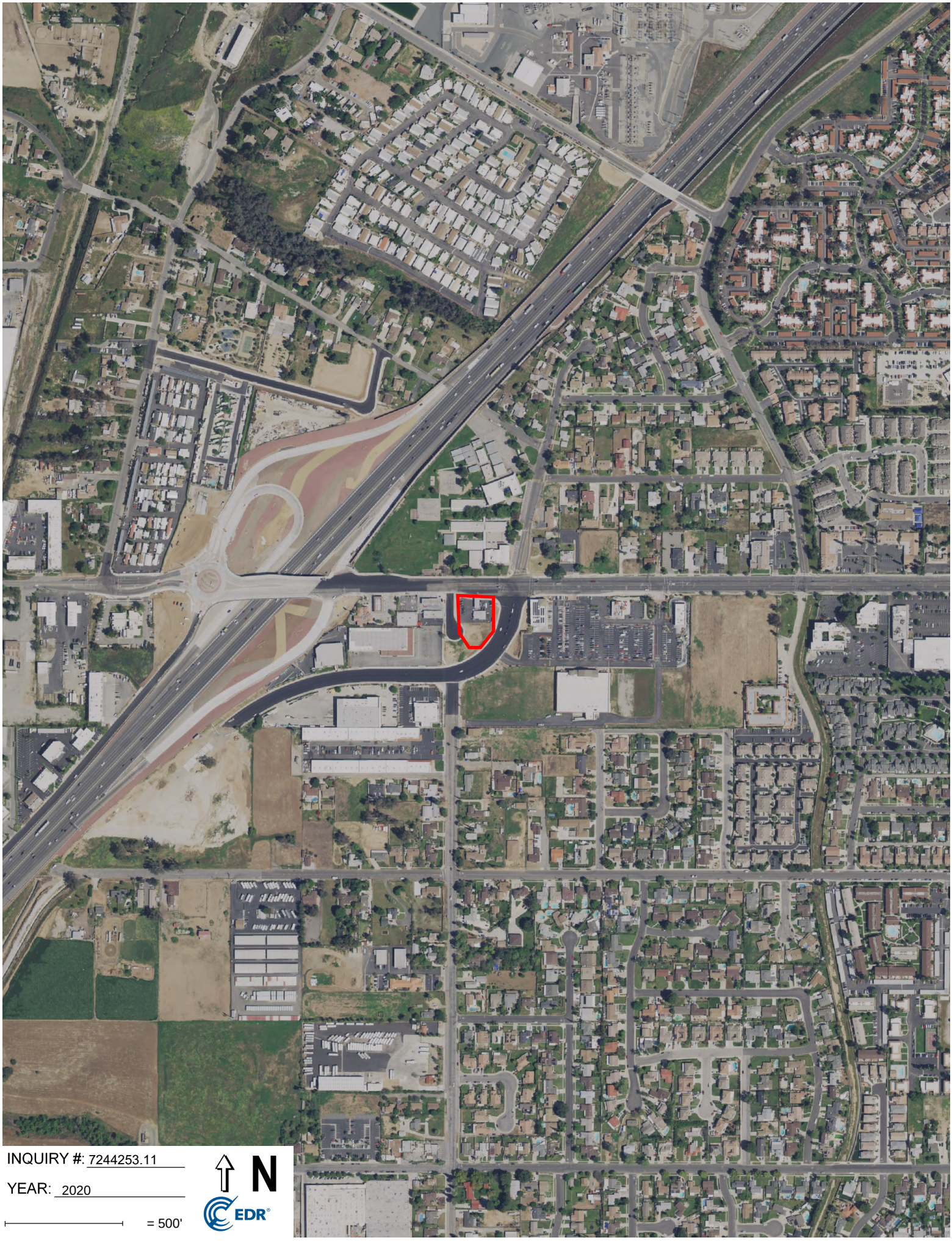
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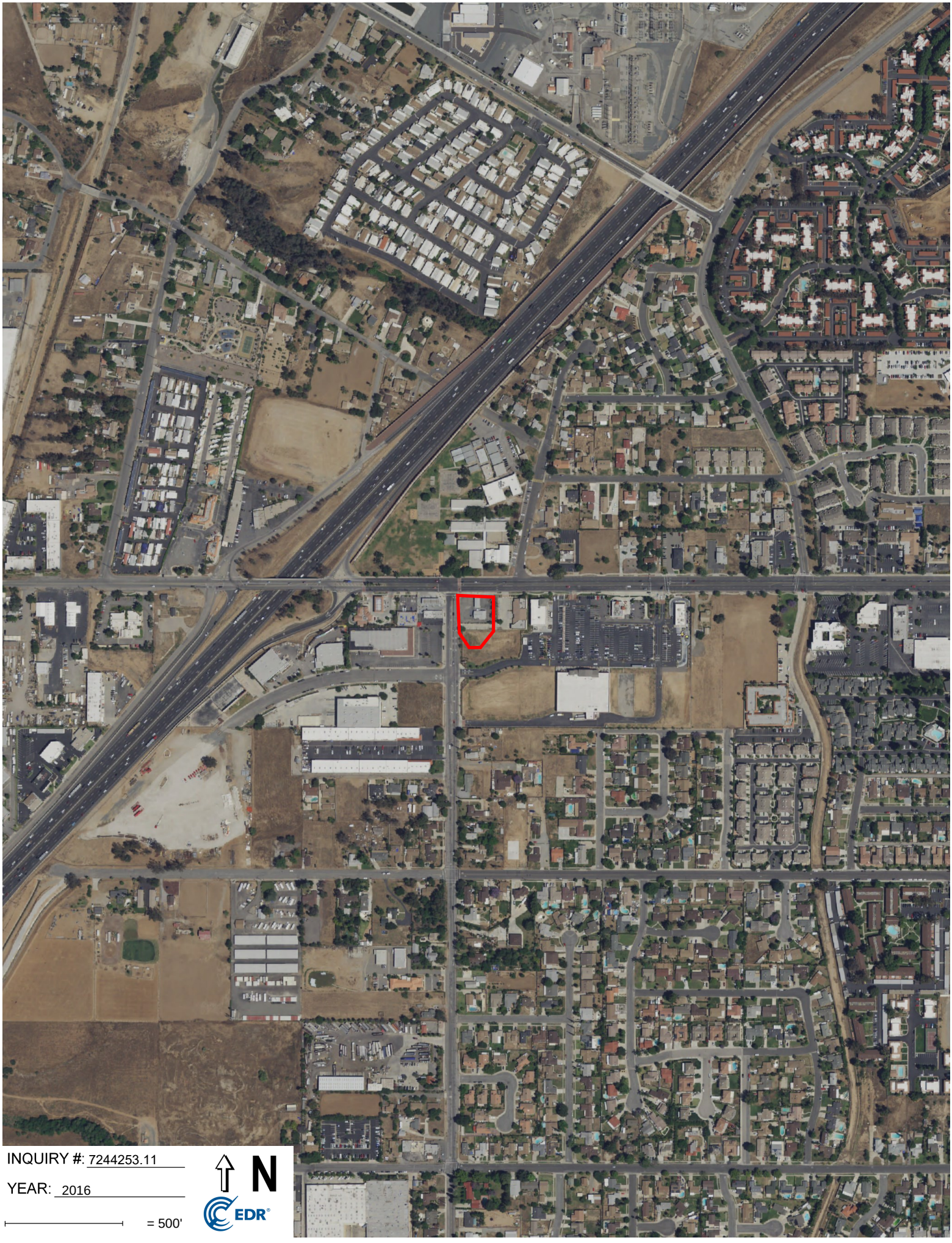
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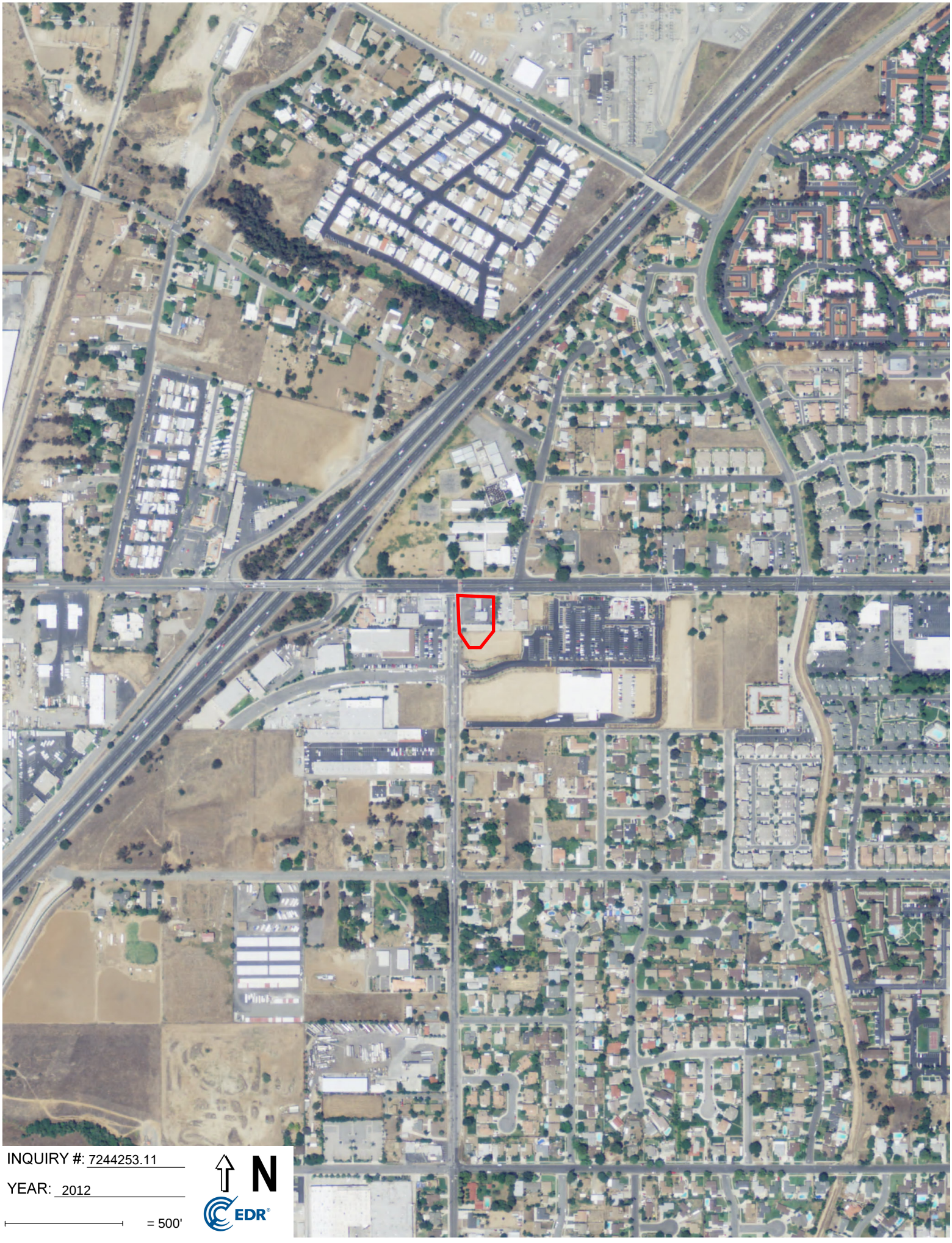
YEAR: 2020

= 500'

N

EDR


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EDR


INQUIRY #: 7244253.11
YEAR: 2012
= 500'
N
EDR



INQUIRY #: 7244253.11

YEAR: 2009

= 500'

N

EDR


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N
EDR



INQUIRY #: 7244253.11

YEAR: 2002

= 500'

N

EDR


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= 500'
N
EDR



INQUIRY #: 7244253.11

YEAR: 1989

= 500'

N

EDR


INQUIRY #: 7244253.11
YEAR: 1985
= 500'
N
EDR


INQUIRY #: 7244253.11
YEAR: 1978
= 500'
N
EDR



INQUIRY #: 7244253.11

YEAR: 1975

= 500'

N

EDR


INQUIRY #: 7244253.11
YEAR: 1967
= 500'
N
EDR



INQUIRY #: 7244253.11

YEAR: 1959

= 500'

N

EDR



INQUIRY #: 7244253.11

YEAR: 1953

= 500'

N

EDR



INQUIRY #: 7244253.11

YEAR: 1949

= 500'

N

EDR



INQUIRY #: 7244253.11

YEAR: 1938

= 500'

N

EDR



INQUIRY #: 7244253.11

YEAR: 1931

= 500'

N

EDR

APPENDIX E
ENVIRONMENTAL DATABASE REPORT

PHASE I
ENVIRONMENTAL SITE ASSESSMENT REPORT
22115 Barton Road
Grand Terrace, California

Farallon PN: 2240-250

CA5204
22115 Barton Road
Grand Terrace, CA 92313

Inquiry Number: 7244253.2s
February 06, 2023

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	9
Orphan Summary	303
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-12
Physical Setting Source Map Findings	A-14
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

22115 BARTON ROAD
GRAND TERRACE, CA 92313

COORDINATES

Latitude (North):	34.0335260 - 34ˆ 2' 0.69''
Longitude (West):	117.3220340 - 117ˆ 19' 19.32''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	470271.8
UTM Y (Meters):	3765725.5
Elevation:	998 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	12016021 SAN BERNARDINO SOUTH, CA
Version Date:	2018

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140603
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
22115 BARTON ROAD
GRAND TERRACE, CA 92313

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	GRAND TERRACE GAS-UP	22115 BARTON RD	LUST, CERS HAZ WASTE, Cortese, CERS		TP
A2	JERRYS AUTO SERVICE	22115 BARTON RD	EDR Hist Auto		TP
A3	JERRYS AUTO SERVICE	22115 BARTON RD	EDR Hist Auto		TP
A4		22115 BARTON RD	CHMIRS		TP
A5	GT PITSTOP AUTO SPOR	22115 BARTON RD	LUST, San Bern. Co. Permit, HWTS		TP
A6	GT PITSTOP AUTOMOTIV	22115 BARTON RD	San Bern. Co. Permit, HWTS		TP
A7	GT PITSTOP	22115 BARTON RD	RCRA NonGen / NLR		TP
A8	INLAND COMMERICAL FU	22115 BARTON	HAZNET, HWTS		TP
A9	GT PITSTOP AUTO SPOR	22115 BARTON RD	FINDS		TP
A10	GRAND TERRACE GAS-UP	22115 BARTON RD	FINDS		TP
A11	GRAND TERRACE GAS-UP	22115 BARTON RD	HIST UST		TP
A12	GT PITSTOP	22115 BARTON RD	FINDS, ECHO		TP
A13	GRAND TERRACE GAS-UP	22115 BARTON RD	SWEEPS UST, CA FID UST, HIST CORTESE		TP
A14	GRAND TERRACE GAS-UP	22115 BARTON RD	RGA LUST		TP
A15	AUTOZONE #5614	22125 BARTON RD	RCRA NonGen / NLR	Higher	52, 0.010, East
A16	AUTOZONE #5614	22125 BARTON RD	San Bern. Co. Permit	Higher	52, 0.010, East
A17	MOBIL STATION 92	22087 BARTON RD	SWEEPS UST, HIST UST	Lower	61, 0.012, NW
A18	QWIK STOP ARCO	22087 BARTON RD	RCRA NonGen / NLR	Lower	121, 0.023, WNW
A19	QUICK STOP #5	22087 BARTON RD	UST	Lower	121, 0.023, WNW
A20	MOBIL STATION #92	22087 BARTON RD	LUST, CERS HAZ WASTE, HIST UST, CERS TANKS,...	Lower	121, 0.023, WNW
A21	QWIK STOP ARCO	22087	LUST, HIST CORTESE	Lower	121, 0.023, WNW
A22	ARCO SERVICE STATION	22087N BARTON RD	EDR Hist Auto	Lower	121, 0.023, WNW
A23	QWIK STOP AUTO	22087 BARTON RD	UST	Lower	121, 0.023, WNW
B24	TEXACO	22045 BARTON ROAD AN	SWEEPS UST, HIST UST	Lower	218, 0.041, WNW
B25	TEXACO SERVICE STATI	22045 BARTON RD	RCRA NonGen / NLR, FINDS, ECHO	Lower	218, 0.041, WNW
B26	TEXACO	22045 BARTON ROAD	Notify 65	Lower	218, 0.041, WNW
27	GOLDEN STAR INVESTME	22172 BARTON ROAD	RCRA NonGen / NLR	Higher	302, 0.057, NE
B28	TAKOURIAN TEXACO	22045 BARTON RD	UST	Lower	367, 0.070, West
B29	GRAND TERRACE MARKET	22045 BARTON RD	UST	Lower	367, 0.070, West
B30	KEROMINA MARKET PLAC	22045 BARTON RD	RCRA NonGen / NLR	Lower	367, 0.070, West
B31	FORMER SHELL STATION	22045 BARTON ROAD	LUST, Cortese	Lower	367, 0.070, West
B32	TEXACO SERVICE STATI	22045 BARTON RD	LUST, CERS HAZ WASTE, CERS TANKS, Cortese, HIST...	Lower	367, 0.070, West
B33	TAKOURIANS TEXACO	22045 BARTON RD	EDR Hist Auto	Lower	367, 0.070, West
B34	KERO MINA MARKETPLAC	22045 BARTON RD	UST	Lower	367, 0.070, West
B35	KEROMINA MARKET PLAC	22045 BARTON ROAD	RCRA NonGen / NLR	Lower	367, 0.070, West
C36	SURBER MACHINE	12210 MICHIGAN AVE 1	San Bern. Co. Permit	Lower	405, 0.077, SSW
C37	EXTREME PERFORMANCE	12210 MICHIGAN AVE 3	San Bern. Co. Permit	Lower	405, 0.077, SSW
D38	CALIFORNIA SKATE GRA	22080 COMMERCE WAY	San Bern. Co. Permit, HWTS	Lower	405, 0.077, WSW
D39	CALIFORNIA SKATE GRA	22080 COMMERCE WAY	RCRA NonGen / NLR	Lower	405, 0.077, WSW

MAPPED SITES SUMMARY

Target Property Address:
22115 BARTON ROAD
GRAND TERRACE, CA 92313

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
D40	CAL SKATE GT	22080 COMMERCE WAY	RCRA NonGen / NLR	Lower	405, 0.077, WSW
E41	STATER BROS MARKETS	22201 BARTON RD	RCRA NonGen / NLR	Higher	423, 0.080, ESE
E42	STATER BROS. MARKETS	22201 BARTON RD	CERS HAZ WASTE, San Bern. Co. Permit, CERS	Higher	423, 0.080, ESE
C43	SAF-R-DIG UTILITY SU	12210 MICHIGAN AVE S	San Bern. Co. Permit	Lower	493, 0.093, SSW
C44	FILTER DISPOSAL SERV	12210 MICHIGAN AVE	RCRA NonGen / NLR, FINDS, ECHO	Lower	493, 0.093, SSW
C45	EMIL MILLER FABRICAT	12210 MICHIGAN ST ST	NPDES, San Bern. Co. Permit	Lower	493, 0.093, SSW
C46	EMIL MILLER FABRICAT	12210 MICHIGAN AVE S	San Bern. Co. Permit	Lower	493, 0.093, SSW
C47	CYCLE PREP	12210 MICHIGAN ST UN	San Bern. Co. Permit	Lower	493, 0.093, SSW
F48	AUTOZONE #5614	22203 BARTON RD	RCRA NonGen / NLR	Higher	537, 0.102, East
F49	AUTOZONE #5614	22203 BARTON RD	CERS HAZ WASTE, HAZNET, San Bern. Co. Permit,...	Higher	537, 0.102, East
D50	ONESOURCE DISTRIBUTO	22075 COMMERCE WAY	San Bern. Co. Permit	Lower	672, 0.127, WSW
51	SUPERIOR POOL PROD L	22060 COMMERCE WAY	San Bern. Co. Permit	Lower	812, 0.154, WSW
G52	FRITZ LAWNMOWER	22257 BARTON RD	San Bern. Co. Permit, HWTS	Higher	850, 0.161, East
G53	GRAND TERRACE PROPER	22300 BARTON RD	RCRA NonGen / NLR	Higher	1114, 0.211, East
H54	ANIMAL EMERGENCY CLI	12022 LA CROSSE AVE	San Bern. Co. Permit	Lower	1128, 0.214, West
H55	AUTO DIAGNOSTICS SER	12028 LA CROSSE AVE	San Bern. Co. Permit	Lower	1133, 0.215, West
56	PINGKHAM RATTANBABPH	22251 CARHART AVE	RCRA NonGen / NLR	Higher	1229, 0.233, NE
I57	SUPER CLEANERS	22310 BARTON RD	DRYCLEANERS	Higher	1287, 0.244, ENE
I58	SUPER CLEANERS	22310 BARTON RD STE	RCRA NonGen / NLR	Higher	1287, 0.244, ENE
I59	SUPER CLEANERS	22310 BARTON RD	RCRA-SQG, FINDS, ECHO	Higher	1287, 0.244, ENE
I60	SUPER CLEANERS	22310 BARTON RD F	CERS HAZ WASTE, DRYCLEANERS, CERS	Higher	1287, 0.244, ENE
I61	SUPER CLEANERS	22310 BARTON UNIT F	San Bern. Co. Permit	Higher	1287, 0.244, ENE
I62	GRAND HERITAGE CLEAN	22310 BARTON RD	DRYCLEANERS	Higher	1287, 0.244, ENE
I63	BILL DARWIN	22324 BARTON RD	SWEEPS UST, CA FID UST	Higher	1289, 0.244, East
64	BRYAN PAGE	11934 VIVIENDA CT.	RCRA NonGen / NLR	Higher	1295, 0.245, NNE
J65	A-1 CLEANER	21900 BARTON RD	San Bern. Co. Permit	Lower	1305, 0.247, NW
J66	FRANK/SARA WISSA	21900 BARTON RD	DRYCLEANERS	Lower	1305, 0.247, NW
J67	A 1 CLEANERS	21900 BARTON RD STE	ENVIROSTOR, VCP, HAZNET, HWTS	Lower	1305, 0.247, NW
J68	A-1 CLEANERS, CHU CH	21900 BARTON RD #130	DRYCLEANERS	Lower	1305, 0.247, NW
69	UNOCAL #4238	22483 BARTON RD	LUST, Cortese, HIST CORTESE, CERS	Higher	2367, 0.448, East
K70	STATER BROS	21700 BARTON RD	RCRA-SQG, LUST, SWEEPS UST, HIST UST, FINDS, ECHO,...	Lower	2623, 0.497, West
K71	STATER BROTHERS DIST	21700 BARTON RD	LUST, Cortese	Lower	2623, 0.497, West
72	HIGH SCHOOL NO. 3	MAIN STREET/TAYLOR S	ENVIROSTOR, SCH, DEED	Higher	4726, 0.895, South
L73	EPTC-HIGHGROVE	12600 TAYLOR ST.	CORRACTS, RCRA-SQG	Lower	4875, 0.923, SSW
L74	EPTC-HIGHGROVE	12600 TAYLOR ST	ENVIROSTOR, HWP, CERS	Lower	4875, 0.923, SSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
GRAND TERRACE GAS-UP 22115 BARTON RD GRAND TERRACE, CA 92324	LUST Database: LUST REG 8, Date of Government Version: 02/14/2005 Global ID: T0607100600 Facility Status: Case Closed CERS HAZ WASTE Cortese Cleanup Status: COMPLETED - CASE CLOSED CERS	N/A
JERRYS AUTO SERVICE 22115 BARTON RD GRAND TERRACE, CA 92313	EDR Hist Auto	N/A
JERRYS AUTO SERVICE 22115 BARTON RD COLTON, CA 92324	EDR Hist Auto	N/A
22115 BARTON RD 22115 BARTON RD GRAND TERRACE, CA 92324	CHMIRS OES Incident Number: 905227 Date Completed: 10-MAR-89	N/A
GT PITSTOP AUTO SPOR 22115 BARTON RD GRAND TERRACE, CA 92313	LUST Database: LUST, Date of Government Version: 08/31/2022 Status: Completed - Case Closed Global Id: T0607100600 San Bern. Co. Permit Facility Status: INACTIVE Facility Id: FA0009805 Facility Id: FA0004115 HWTS	N/A
GT PITSTOP AUTOMOTIV 22115 BARTON RD GRAND TERRACE, CA 92313	San Bern. Co. Permit Facility Status: ACTIVE Facility Id: FA0018062 HWTS	N/A
GT PITSTOP 22115 BARTON RD GRAND TERRACE, CA 92313	RCRA NonGen / NLR EPA ID:: CAL000438935	CAL000438935
INLAND COMMERICAL FU 22115 BARTON GRAND TERRACE, CA 92324	HAZNET	N/A

	GEPAID: CAC001086944 HWTS	
GT PITSTOP AUTO SPOR 22115 BARTON RD GRAND TERRACE, CA 92313	FINDS Registry ID:: 110066696846	N/A
GRAND TERRACE GAS-UP 22115 BARTON RD GRAND TERRACE, CA 92324	FINDS Registry ID:: 110065468372	N/A
GRAND TERRACE GAS-UP 22115 BARTON RD GRAND TERRACE, CA 92324	HIST UST Facility Id: 00000009388	N/A
GT PITSTOP 22115 BARTON RD GRAND TERRACE, CA 92313	FINDS Registry ID:: 110070488142 ECHO Registry ID: 110070488142	N/A
GRAND TERRACE GAS-UP 22115 BARTON RD GRAND TERRACE, CA 92324	SWEEPS UST Status: A Tank Status: A Comp Number: 9388 CA FID UST Facility Id: 36008490 Status: A HIST CORTESE Reg Id: 083603551T	N/A
GRAND TERRACE GAS-UP 22115 BARTON RD GRAND TERRACE, CA	RGA LUST	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL---------- National Priority List

Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---------- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROLS ---------- Institutional Controls Sites List

Federal ERNS list

ERNS ---------- Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE ---------- State Response Sites

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF ---------- Solid Waste Information System

Lists of state and tribal leaking storage tanks

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land
CPS-SLIC ---------- Statewide SLIC Cases

Lists of state and tribal registered storage tanks

FEMA UST ---------- Underground Storage Tank Listing
AST ---------- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---------- Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing

EXECUTIVE SUMMARY

Lists of state and tribal brownfield sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---------- Waste Management Unit Database
SWRCY ---------- Recycler Database
HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
ODI ---------- Open Dump Inventory
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---------- Historical Calsites Database
SCH ---------- School Property Evaluation Program
CDL ---------- Clandestine Drug Labs
Toxic Pits ---------- Toxic Pits Cleanup Act Sites
US CDL ---------- National Clandestine Laboratory Register

Local Land Records

LIENS ---------- Environmental Liens Listing
LIENS 2 ---------- CERCLA Lien Information
DEED ---------- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System
LDS ---------- Land Disposal Sites Listing
MCS ---------- Military Cleanup Sites Listing
SPILLS 90 ---------- SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS ---------- Formerly Used Defense Sites
DOD ---------- Department of Defense Sites
SCRD DRYCLEANERS ---------- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---------- Financial Assurance Information
EPA WATCH LIST ---------- EPA WATCH LIST
2020 COR ACTION ---------- 2020 Corrective Action Program List
TSCA ---------- Toxic Substances Control Act
TRIS ---------- Toxic Chemical Release Inventory System
SSTS ---------- Section 7 Tracking Systems

EXECUTIVE SUMMARY

ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
PFAS NPL	Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES	Federal Sites PFAS Information
PFAS TSCA	PFAS Manufacture and Imports Information
PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR	PFAS Contamination Site Location Listing
PFAS WQP	Ambient Environmental Sampling for PFAS
PFAS NPDES	Clean Water Act Discharge Monitoring Information
PFAS ECHO	Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAINING	Facilities in Industries that May Be Handling PFAS Listing
PFAS PART 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing
PFAS	PFAS Contamination Site Location Listing
AQUEOUS FOAM	Former Fire Training Facility Assessments Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CUPA Listings	CUPA Resources List
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
ICE	ICE
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System

EXECUTIVE SUMMARY

WIP ---------- Well Investigation Program Case List
MILITARY PRIV SITES ---------- MILITARY PRIV SITES (GEOTRACKER)
PROJECT ---------- PROJECT (GEOTRACKER)
WDR ---------- Waste Discharge Requirements Listing
CIWQS ---------- California Integrated Water Quality System
NON-CASE INFO ---------- NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS ---------- OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS ---------- PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT ---------- SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ ---------- Well Stimulation Project (GEOTRACKER)
MINES MRDS ---------- Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---------- EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner ---------- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---------- Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 11/21/2022 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
EPTC-HIGHGROVE	***12600 TAYLOR ST.***	***SSW 1/2 - 1 (0.923 mi.)***	***L73***	***284***

EPA ID:: CAD000631028

Lists of Federal RCRA generators

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 11/21/2022 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SUPER CLEANERS	***22310 BARTON RD***	***ENE 1/8 - 1/4 (0.244 mi.)***	***I59***	***214***
EPA ID:: CAD983622945				

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 10/24/2022 has revealed that there are 3 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HIGH SCHOOL NO. 3	***MAIN STREET/TAYLOR S***	***S 1/2 - 1 (0.895 mi.)***	***72***	***273***
Facility Id: 36010044				
Status: Certified O&M - Land Use Restrictions Only				

Lower Elevation	Address	Direction / Distance	Map ID	Page
A 1 CLEANERS	***21900 BARTON RD STE***	***NW 1/8 - 1/4 (0.247 mi.)***	***J67***	***228***
Facility Id: 60002175				
Status: Active				
EPTC-HIGHGROVE	***12600 TAYLOR ST***	***SSW 1/2 - 1 (0.923 mi.)***	***L74***	***296***
Facility Id: 80001332				
Status: No Further Action				

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 7 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UNOCAL #4238	***22483 BARTON RD***	***E 1/4 - 1/2 (0.448 mi.)***	***69***	***252***
Database: LUST REG 8, Date of Government Version: 02/14/2005				
Database: LUST, Date of Government Version: 08/31/2022				
Global ID: T0607100376				
Status: Completed - Case Closed				
Facility Status: Case Closed				
Global Id: T0607100376				

Lower Elevation	Address	Direction / Distance	Map ID	Page
MOBIL STATION #92	***22087 BARTON RD***	***WNW 0 - 1/8 (0.023 mi.)***	***A20***	***47***
Database: LUST, Date of Government Version: 08/31/2022				
Status: Completed - Case Closed				
Global Id: T0607100544				
QWIK STOP ARCO	***22087***	***WNW 0 - 1/8 (0.023 mi.)***	***A21***	***90***
Database: LUST REG 8, Date of Government Version: 02/14/2005				
Global ID: T0607100544				
Facility Status: Leak being confirmed				
FORMER SHELL STATION	***22045 BARTON ROAD***	***W 0 - 1/8 (0.070 mi.)***	***B31***	***108***
Database: LUST REG 8, Date of Government Version: 02/14/2005				
Global ID: T0607135873				
Facility Status: Leak being confirmed				
TEXACO SERVICE STATI	***22045 BARTON RD***	***W 0 - 1/8 (0.070 mi.)***	***B32***	***109***
Database: LUST REG 8, Date of Government Version: 02/14/2005				
Database: LUST, Date of Government Version: 08/31/2022				
Global ID: T0607100196				
Status: Completed - Case Closed				
Facility Status: Case Closed				
Global Id: T0607135873				
STATER BROS	***21700 BARTON RD***	***W 1/4 - 1/2 (0.497 mi.)***	***K70***	***255***
Database: LUST REG 8, Date of Government Version: 02/14/2005				
Database: LUST, Date of Government Version: 08/31/2022				
Global ID: T0607100500				
Status: Completed - Case Closed				
Facility Status: Case Closed				
Global Id: T0607100067				
STATER BROTHERS DIST	***21700 BARTON RD***	***W 1/4 - 1/2 (0.497 mi.)***	***K71***	***271***
Database: LUST REG 8, Date of Government Version: 02/14/2005				
Global ID: T0607100067				
Facility Status: Case Closed				

Lists of state and tribal registered storage tanks

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 5 UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
QUICK STOP #5 Database: UST, Date of Government Version: 08/31/2022 Facility Id: FA0005497	22087 BARTON RD	WNW 0 - 1/8 (0.023 mi.)	A19	43
QWIK STOP AUTO Database: UST CLOSURE, Date of Government Version: 08/24/2022	22087 BARTON RD	WNW 0 - 1/8 (0.023 mi.)	A23	92
TAKOURIAN TEXACO Database: UST, Date of Government Version: 08/31/2022 Facility Id: 86009081	22045 BARTON RD	W 0 - 1/8 (0.070 mi.)	B28	102
GRAND TERRACE MARKET Database: UST, Date of Government Version: 08/31/2022 Facility Id: FA0010703	22045 BARTON RD	W 0 - 1/8 (0.070 mi.)	B29	103
KERO MINA MARKETPLAC Database: UST, Date of Government Version: 08/31/2022 Facility Id: FA0010703	22045 BARTON RD	W 0 - 1/8 (0.070 mi.)	B34	141

Lists of state and tribal voluntary cleanup sites

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the VCP list, as provided by EDR, and dated 10/24/2022 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
A 1 CLEANERS Status: Active Facility Id: 60002175	***21900 BARTON RD STE***	***NW 1/8 - 1/4 (0.247 mi.)***	***J67***	***228***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 01/05/2023 has revealed that there

are 5 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
STATER BROS. MARKETS	*22201 BARTON RD*	*ESE 0 - 1/8 (0.080 mi.)*	*E42*	*154*
AUTOZONE #5614	*22203 BARTON RD*	*E 0 - 1/8 (0.102 mi.)*	*F49*	*166*
SUPER CLEANERS	*22310 BARTON RD F*	*ENE 1/8 - 1/4 (0.244 mi.)*	*I60*	*217*

Lower Elevation	Address	Direction / Distance	Map ID	Page
MOBIL STATION #92	*22087 BARTON RD*	*WNW 0 - 1/8 (0.023 mi.)*	*A20*	*47*
TEXACO SERVICE STATI	*22045 BARTON RD*	*W 0 - 1/8 (0.070 mi.)*	*B32*	*109*

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 3 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BILL DARWIN Comp Number: 3	*22324 BARTON RD*	*E 1/8 - 1/4 (0.244 mi.)*	*I63*	*224*

Lower Elevation	Address	Direction / Distance	Map ID	Page
MOBIL STATION 92 Status: A Tank Status: A Comp Number: 19616	*22087 BARTON RD*	*NW 0 - 1/8 (0.012 mi.)*	*A17*	*39*
TEXACO Status: A Tank Status: A Comp Number: 7312	*22045 BARTON ROAD AN*	*WNW 0 - 1/8 (0.041 mi.)*	*B24*	*93*

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 3 HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MOBIL STATION 92	*22087 BARTON RD*	*NW 0 - 1/8 (0.012 mi.)*	*A17*	*39*
MOBIL STATION #92 Facility Id: 00000019616	*22087 BARTON RD*	*WNW 0 - 1/8 (0.023 mi.)*	*A20*	*47*
TEXACO	*22045 BARTON ROAD AN*	*WNW 0 - 1/8 (0.041 mi.)*	*B24*	*93*

EXECUTIVE SUMMARY

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 01/06/2023 has revealed that there are 2 CERS TANKS sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MOBIL STATION #92	***22087 BARTON RD***	***WNW 0 - 1/8 (0.023 mi.)***	***A20***	***47***
TEXACO SERVICE STATI	***22045 BARTON RD***	***W 0 - 1/8 (0.070 mi.)***	***B32***	***109***

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BILL DARWIN	***22324 BARTON RD***	***E 1/8 - 1/4 (0.244 mi.)***	***I63***	***224***
Facility Id: 36001674				
Status: I				

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 11/21/2022 has revealed that there are 15 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AUTOZONE #5614 EPA ID:: CAL000206942	22125 BARTON RD	E 0 - 1/8 (0.010 mi.)	A15	35
GOLDEN STAR INVESTME EPA ID:: CAC003078834	22172 BARTON ROAD	NE 0 - 1/8 (0.057 mi.)	27	99
STATER BROS MARKETS EPA ID:: CAL000368459	22201 BARTON RD	ESE 0 - 1/8 (0.080 mi.)	E41	151
AUTOZONE #5614 EPA ID:: CAL000396739	22203 BARTON RD	E 0 - 1/8 (0.102 mi.)	F48	164
GRAND TERRACE PROPER EPA ID:: CAC003175304	22300 BARTON RD	E 1/8 - 1/4 (0.211 mi.)	G53	204
PINGKHAM RATTANBABPH EPA ID:: CAC002990526	22251 CARHART AVE	NE 1/8 - 1/4 (0.233 mi.)	56	207
SUPER CLEANERS EPA ID:: CAL000303881	22310 BARTON RD STE	ENE 1/8 - 1/4 (0.244 mi.)	I58	212
BRYAN PAGE	11934 VIVIENDA CT.	NNE 1/8 - 1/4 (0.245 mi.)	64	224

EPA ID:: CAC003094008

Lower Elevation	Address	Direction / Distance	Map ID	Page
QWIK STOP ARCO EPA ID:: CAL912633553	22087 BARTON RD	WNW 0 - 1/8 (0.023 mi.)	A18	41
TEXACO SERVICE STATI EPA ID:: CAR000091702	***22045 BARTON RD***	***WNW 0 - 1/8 (0.041 mi.)***	***B25***	***95***
KEROMINA MARKET PLAC EPA ID:: CAL000446481	22045 BARTON RD	W 0 - 1/8 (0.070 mi.)	B30	105
KEROMINA MARKET PLAC EPA ID:: CAC002976374	22045 BARTON ROAD	W 0 - 1/8 (0.070 mi.)	B35	142
CALIFORNIA SKATE GRA EPA ID:: CAL000467650	22080 COMMERCE WAY	WSW 0 - 1/8 (0.077 mi.)	D39	146
CAL SKATE GT EPA ID:: CAC003138674	22080 COMMERCE WAY	WSW 0 - 1/8 (0.077 mi.)	D40	149
FILTER DISPOSAL SERV EPA ID:: CAT982521734	***12210 MICHIGAN AVE***	***SSW 0 - 1/8 (0.093 mi.)***	***C44***	***159***

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 09/19/2022 has revealed that there are 6 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UNOCAL #4238 Cleanup Status: COMPLETED - CASE CLOSED	***22483 BARTON RD***	***E 1/4 - 1/2 (0.448 mi.)***	***69***	***252***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MOBIL STATION #92 Cleanup Status: COMPLETED - CASE CLOSED	***22087 BARTON RD***	***WNW 0 - 1/8 (0.023 mi.)***	***A20***	***47***
FORMER SHELL STATION Cleanup Status: COMPLETED - CASE CLOSED	***22045 BARTON ROAD***	***W 0 - 1/8 (0.070 mi.)***	***B31***	***108***
TEXACO SERVICE STATI Cleanup Status: COMPLETED - CASE CLOSED	***22045 BARTON RD***	***W 0 - 1/8 (0.070 mi.)***	***B32***	***109***
STATER BROS Cleanup Status: COMPLETED - CASE CLOSED	***21700 BARTON RD***	***W 1/4 - 1/2 (0.497 mi.)***	***K70***	***255***
STATER BROTHERS DIST Cleanup Status: COMPLETED - CASE CLOSED	***21700 BARTON RD***	***W 1/4 - 1/2 (0.497 mi.)***	***K71***	***271***

EXECUTIVE SUMMARY

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, has revealed that there are 5 DRYCLEANERS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SUPER CLEANERS	22310 BARTON RD	ENE 1/8 - 1/4 (0.244 mi.)	I57	210
Database: DRYCLEANERS, Date of Government Version: 08/27/2021 Database: DRYCLEAN SOUTH COAST, Date of Government Version: 08/18/2022 EPA Id: CAL000303881				
SUPER CLEANERS	***22310 BARTON RD F***	***ENE 1/8 - 1/4 (0.244 mi.)***	***I60***	***217***
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 08/18/2022				
GRAND HERITAGE CLEAN	22310 BARTON RD	ENE 1/8 - 1/4 (0.244 mi.)	I62	223
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 08/18/2022				

Lower Elevation	Address	Direction / Distance	Map ID	Page
FRANK/SARA WISSA	21900 BARTON RD	NW 1/8 - 1/4 (0.247 mi.)	J66	227
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 08/18/2022				
A-1 CLEANERS, CHU CH	21900 BARTON RD #130	NW 1/8 - 1/4 (0.247 mi.)	J68	251
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 08/18/2022				

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 4 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UNOCAL #4238	***22483 BARTON RD***	***E 1/4 - 1/2 (0.448 mi.)***	***69***	***252***
Reg Id: 083602645T				

Lower Elevation	Address	Direction / Distance	Map ID	Page
QWIK STOP ARCO	***22087***	***WNW 0 - 1/8 (0.023 mi.)***	***A21***	***90***
Reg Id: 08360337T				
TEXACO SERVICE STATI	***22045 BARTON RD***	***W 0 - 1/8 (0.070 mi.)***	***B32***	***109***
Reg Id: 083601660T				
STATER BROS	***21700 BARTON RD***	***W 1/4 - 1/2 (0.497 mi.)***	***K70***	***255***
Reg Id: 083600671T Reg Id: 083603249T				

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 11/10/2022 has revealed that there is 1 HWP site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
EPTC-HIGHGROVE EPA ID: CAD000631028 Cleanup Status: CLOSED	***12600 TAYLOR ST***	***SSW 1/2 - 1 (0.923 mi.)***	***L74***	***296***

San Bern. Co. Permit: San Bernardino County Fire Department Hazardous Materials Division.

A review of the San Bern. Co. Permit list, as provided by EDR, and dated 08/22/2022 has revealed that there are 19 San Bern. Co. Permit sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AUTOZONE #5614 Facility Status: INACTIVE Facility Id: FA0001228 Facility Id: FA0004568	22125 BARTON RD	E 0 - 1/8 (0.010 mi.)	A16	38
STATER BROS. MARKETS Facility Status: ACTIVE Facility Id: FA0014128	***22201 BARTON RD***	***ESE 0 - 1/8 (0.080 mi.)***	***E42***	***154***
AUTOZONE #5614 Facility Status: ACTIVE Facility Id: FA0016022	***22203 BARTON RD***	***E 0 - 1/8 (0.102 mi.)***	***F49***	***166***
FRITZ LAWNMOWER Facility Status: ACTIVE Facility Id: FA0019141	***22257 BARTON RD***	***E 1/8 - 1/4 (0.161 mi.)***	***G52***	***203***
SUPER CLEANERS Facility Status: ACTIVE Facility Id: FA0006529	22310 BARTON UNIT F	ENE 1/8 - 1/4 (0.244 mi.)	I61	223

Lower Elevation	Address	Direction / Distance	Map ID	Page
MOBIL STATION #92 Facility Status: ACTIVE Facility Id: FA0005497	***22087 BARTON RD***	***WNW 0 - 1/8 (0.023 mi.)***	***A20***	***47***
TEXACO SERVICE STATI Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0010703 Facility Id: FA0006581 Facility Id: FA0006635	***22045 BARTON RD***	***W 0 - 1/8 (0.070 mi.)***	***B32***	***109***
SURBER MACHINE Facility Status: INACTIVE Facility Id: FA0006555	12210 MICHIGAN AVE 1	SSW 0 - 1/8 (0.077 mi.)	C36	145
EXTREME PERFORMANCE Facility Status: INACTIVE	12210 MICHIGAN AVE 3	SSW 0 - 1/8 (0.077 mi.)	C37	145

Facility Id: FA0002982				
CALIFORNIA SKATE GRA Facility Status: INACTIVE Facility Id: FA0001732	***22080 COMMERCE WAY***	***WSW 0 - 1/8 (0.077 mi.)***	***D38***	***145***
SAF-R-DIG UTILITY SU Facility Status: INACTIVE Facility Id: FA0013121	12210 MICHIGAN AVE S	SSW 0 - 1/8 (0.093 mi.)	C43	159
EMIL MILLER FABRICAT Facility Status: INACTIVE Facility Id: FA0010069	***12210 MICHIGAN ST ST***	***SSW 0 - 1/8 (0.093 mi.)***	***C45***	***162***
EMIL MILLER FABRICAT Facility Status: INACTIVE Facility Id: FA0002901	12210 MICHIGAN AVE S	SSW 0 - 1/8 (0.093 mi.)	C46	163
CYCLE PREP Facility Status: INACTIVE Facility Id: FA0010905	12210 MICHIGAN ST UN	SSW 0 - 1/8 (0.093 mi.)	C47	163
ONESOURCE DISTRIBUTO Facility Status: INACTIVE Facility Id: FA0013049	22075 COMMERCE WAY	WSW 1/8 - 1/4 (0.127 mi.)	D50	202
SUPERIOR POOL PROD L Facility Status: INACTIVE Facility Id: FA0006543	22060 COMMERCE WAY	WSW 1/8 - 1/4 (0.154 mi.)	51	203
ANIMAL EMERGENCY CLI Facility Status: INACTIVE Facility Id: FA0000964	12022 LA CROSSE AVE	W 1/8 - 1/4 (0.214 mi.)	H54	206
AUTO DIAGNOSTICS SER Facility Status: INACTIVE Facility Id: FA0012191	12028 LA CROSSE AVE	W 1/8 - 1/4 (0.215 mi.)	H55	207
A-1 CLEANER Facility Status: INACTIVE Facility Id: FA0000094	21900 BARTON RD	NW 1/8 - 1/4 (0.247 mi.)	J65	227

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 09/07/2022 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TEXACO	22045 BARTON ROAD	WNW 0 - 1/8 (0.041 mi.)	B26	99

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EXECUTIVE SUMMARY

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 2 EDR Hist Auto sites within approximately 0.125 miles of the target property.

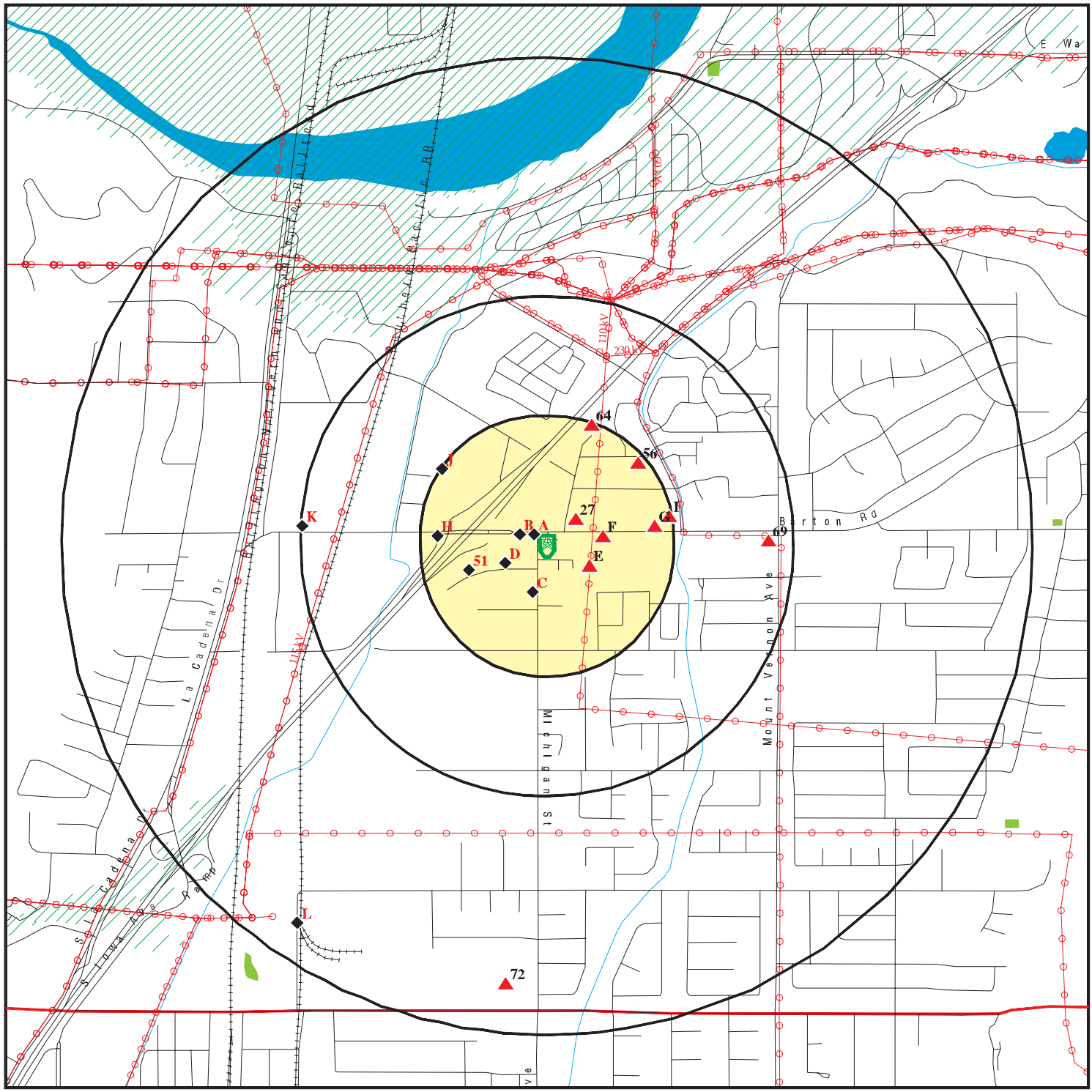
Lower Elevation	Address	Direction / Distance	Map ID	Page
ARCO SERVICE STATION	22087N BARTON RD	WNW 0 - 1/8 (0.023 mi.)	A22	92
TAKOURIANS TEXACO	22045 BARTON RD	W 0 - 1/8 (0.070 mi.)	B33	141

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
S P EAST COLTON YARD	CDL LUST

OVERVIEW MAP - 7244253.2S



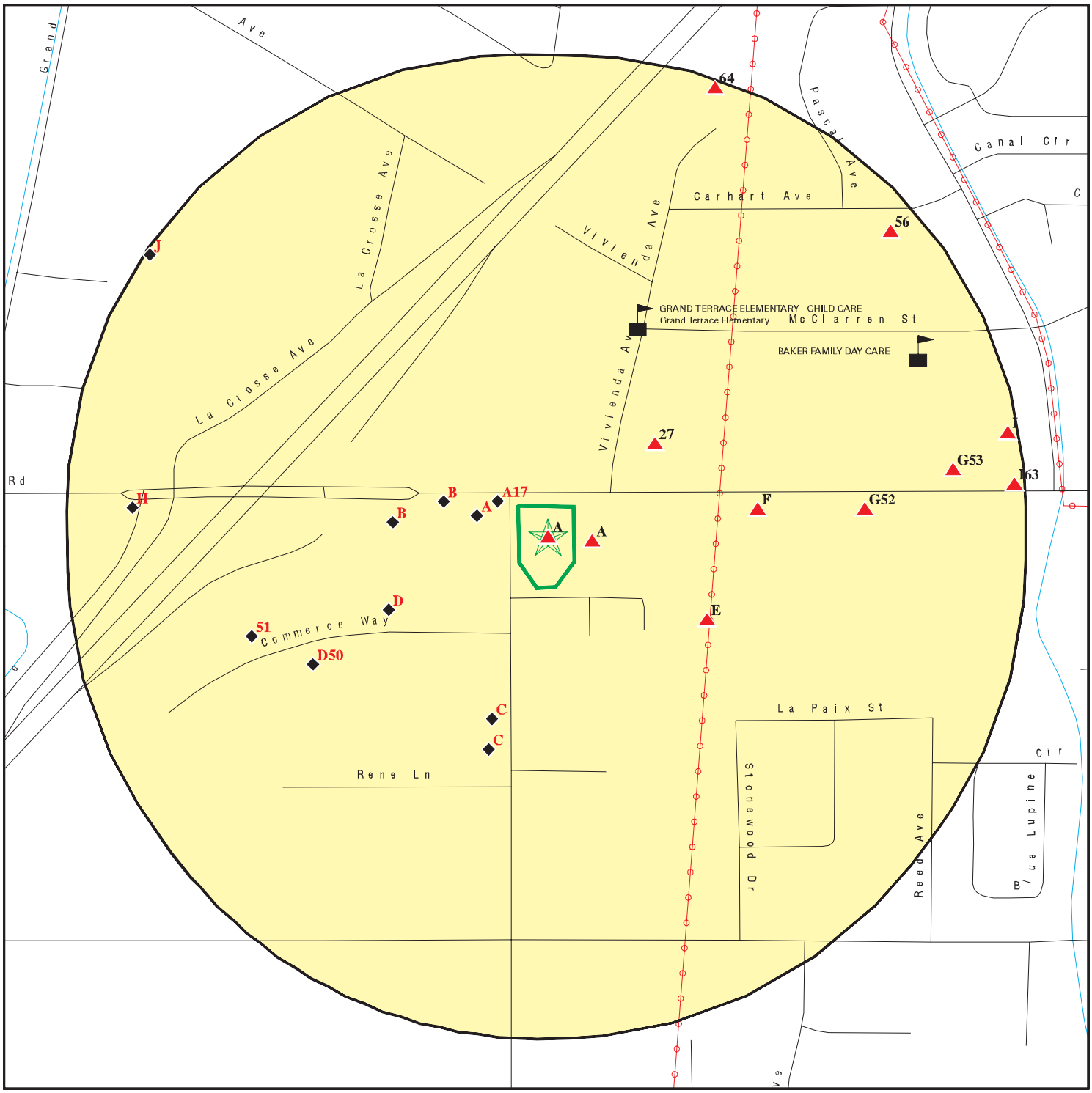
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: CA5204	CLIENT: Farallon Consulting, LLC
ADDRESS: 22115 Barton Road Grand Terrace CA 92313	CONTACT: Amanda Garcia
LAT/LONG: 34.033526 / 117.322034	INQUIRY #: 7244253.2s DATE: February 06, 2023 9:25 am

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DETAIL MAP - 7244253.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	CA5204	CLIENT:	Farallon Consulting, LLC
ADDRESS:	22115 Barton Road Grand Terrace CA 92313	CONTACT:	Amanda Garcia
LAT/LONG:	34.033526 / 117.322034	INQUIRY #:	7244253.2s
		DATE:	February 06, 2023 9:25 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	1	NR	1
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
ENVIROSTOR	1.000		0	1	0	2	NR	3
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
LUST	0.500	2	4	0	3	NR	NR	9
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		5	0	NR	NR	NR	5
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
VCP	0.500		0	1	0	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250	1	4	1	NR	NR	NR	6
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250	1	2	1	NR	NR	NR	4
HIST UST	0.250	1	3	0	NR	NR	NR	4
CERS TANKS	0.250		2	0	NR	NR	NR	2
CA FID UST	0.250	1	0	1	NR	NR	NR	2
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001	1	0	NR	NR	NR	NR	1
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	1	11	4	NR	NR	NR	16
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001	3	0	NR	NR	NR	NR	3
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001	1	0	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500	1	3	0	3	NR	NR	7
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	5	NR	NR	NR	5
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500	1	2	0	2	NR	NR	5
HWP	1.000		0	0	0	1	NR	1
HWT	0.250		0	0	NR	NR	NR	0
HAZNET	0.001	1	0	NR	NR	NR	NR	1
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
San Bern. Co. Permit	0.250	2	12	7	NR	NR	NR	21
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		1	0	0	0	NR	1
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001	1	0	NR	NR	NR	NR	1
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
HWTS	TP	3	NR	NR	NR	NR	NR	3

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Hist Auto	0.125	2	2	NR	NR	NR	NR	4
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001	1	0	NR	NR	NR	NR	1
- Totals --		24	51	22	8	4	0	109

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **GRAND TERRACE GAS-UP #2603** **LUST** **S104025256**
Target **22115 BARTON RD** **CERS HAZ WASTE** **N/A**
Property **GRAND TERRACE, CA 92324** **Cortese**
CERS

Site 1 of 23 in cluster A

Actual:
998 ft.

LUST REG 8:

Name:	GRAND TERRACE GAS-UP #2603
Address:	22115 BARTON RD
City:	GRAND TERRACE
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083603551T
Local Case Num:	99084
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	MICHIGAN
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0607100600
How Stopped Date:	3/22/1999
Enter Date:	9/17/1999
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	3/22/1999
Enforcement Date:	Not reported
Close Date:	3/15/2000
Date Prelim Assessment Workplan Submitted:	4/14/1999
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	9/17/1999
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.0337691
Longitude:	-117.3221949
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	VJJ
Staff Initials:	LH6
Lead Agency:	Local Agency

GRAND TERRACE GAS-UP #2603 (Continued) **S104025256**

Local Agency: 36000L
Hydr Basin #: UPPER SANTA ANA VALL
Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: No
Summary: Not reported

CERS HAZ WASTE:
Name: GT PITSTOP AUTOMOTIVE SERVICES LLC.
Address: 22115 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Site ID: 34672
CERS ID: 10050364
CERS Description: Hazardous Waste Generator

CORTESE:
Name: GRAND TERRACE GAS-UP #2603
Address: 22115 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92324
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607100600
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

CERS:
Name: GT PITSTOP AUTOMOTIVE SERVICES LLC.
Address: 22115 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Site ID: 34672
CERS ID: 10050364
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 34672
Site Name: GT PITSTOP Automotive services llc.
Violation Date: 09-24-2013
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)

GRAND TERRACE GAS-UP #2603 (Continued) **S104025256**

Violation Description:	Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes:	Returned to compliance on 07/31/2018.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	34672
Site Name:	GT PITSTOP Automotive services llc.
Violation Date:	09-28-2022
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 09/28/2022. OBSERVATION: At the time of inspection, observed (1) 55-gallon drum of used oil that was not reported via CERS and (1) 55-gallon drum of drained used oil filters that was being underreported via CERS. The violation was corrected during the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	34672
Site Name:	GT PITSTOP Automotive services llc.
Violation Date:	09-26-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 07/31/2018. Failure to maintain used oil disposal receipts for at least 3 years (CHSC 25160.2(b)(3))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	34672
Site Name:	GT PITSTOP Automotive services llc.
Violation Date:	09-03-2019
Citation:	HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes:	Returned to compliance on 09/06/2019. OBSERVATION: At the time of inspection the most recent business plan had previous owners information and an incorrect hazardous materials inventory. Inventory observed at the time of inspection is as follows: (1) 30 gallon drum of drained used oil filters, (1) 30 gallon drum of used oil, (1) 30 gallon drum of used coolant, and (1) 30 gallon parts washer. CORRECTIVE ACTION: Update the owner information to reflect current

GRAND TERRACE GAS-UP #2603 (Continued) **S104025256**

	owner and update the hazardous materials inventory and resubmit the updated business plan information via CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	34672
Site Name:	GT PITSTOP Automotive services llc.
Violation Date:	09-26-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/31/2018. Failure to complete hazardous waste labels (CCR 66262.34(f)(3))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	34672
Site Name:	GT PITSTOP Automotive services llc.
Violation Date:	09-26-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/31/2018. Failure to note accumulation start date on labels (CCR 66262.34(f)(2))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	34672
Site Name:	GT PITSTOP Automotive services llc.
Violation Date:	07-31-2018
Citation:	40 CFR 1 265.174 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.174
Violation Description:	Failure to inspect hazardous waste storage areas at least weekly and look for leaking and deteriorating containers.
Violation Notes:	Returned to compliance on 09/12/2019. OBSERVATION: Weekly hazardous waste storage area inspections are not being conducted. CORRECTIVE ACTION: Submit three weeks worth of weekly inspection checklists to this office.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	34672
Site Name:	GT PITSTOP Automotive services llc.
Violation Date:	09-28-2022
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 09/28/2022. OBSERVATION: At the time of inspection, observed (1) 55-gallon drum of used oil and (1) 30-gallon

GRAND TERRACE GAS-UP #2603 (Continued) **S104025256**

drum of used oil that were both missing proper Hazardous Waste labeling. The violation was corrected at the time of inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 34672
Site Name: GT PITSTOP Automotive services llc.
Violation Date: 07-31-2018
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 08/23/2018. OBSERVATION: In the Business Activities section of CERS, the box for hazardous waste has been checked "No". As this facility is generating hazardous waste on site, this box must be changed to "Yes". Hazardous materials were observed on site during an inspection that are not listed in this inventory.
The Site Map must show the locations of all hazardous materials on site. The emergency response plan must be revised to show the correct contact number for the local CUPA. Change 909-386-8401 to 386-8425.
CORRECTIVE ACTION: Submit a signed statement that updated Business Plan elements have been submitted to CERS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 34672
Site Name: GT PITSTOP Automotive services llc.
Violation Date: 09-24-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/31/2018. Failure to complete hazardous waste labels (CCR 66262.34(f)(3))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 34672
Site Name: GT PITSTOP Automotive services llc.
Violation Date: 07-31-2018
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 08/30/2018. OBSERVATION: This facility is generating hazardous waste and has not obtained a valid EPA ID number.
CORRECTIVE ACTION: Submit a signed statement that a valid EPA ID number has been obtained.
Violation Division: San Bernardino County Fire Department

GRAND TERRACE GAS-UP #2603 (Continued) **S104025256**

Violation Program:	HW
Violation Source:	CERS,
Site ID:	34672
Site Name:	GT PITSTOP Automotive services llc.
Violation Date:	09-24-2013
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/31/2018. Failure to note accumulation start date on labels (CCR 66262.34(f)(2))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	34672
Site Name:	GT PITSTOP Automotive services llc.
Violation Date:	09-24-2013
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/31/2018. Failure to label hazardous waste containers (CCR 66262.34(f)(3))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	34672
Site Name:	GT PITSTOP Automotive services llc.
Violation Date:	09-26-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/31/2018. Failure to establish a Contingency Plan (CCR 66265.51(a))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	34672
Site Name:	GT PITSTOP Automotive services llc.
Violation Date:	09-28-2022
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 09/28/2022. OBSERVATION: At the time of inspection, the Hazardous Materials Business Plan had not been submitted in CERS since 06/04/2020. The violation was corrected at the time of inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	34672
Site Name:	GT PITSTOP Automotive services llc.

GRAND TERRACE GAS-UP #2603 (Continued) **S104025256**

Violation Date: 09-26-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/31/2018. Hazardous waste accumulation time exceeded (CCR 66262.34(a))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 34672
Site Name: GT PITSTOP Automotive services llc.
Violation Date: 07-31-2018
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 08/30/2018. OBSERVATION: Observed a 55-gallon drum of used oil and a 55-gallon drum of waste coolant missing hazardous waste labels and accumulation start dates. CORRECTIVE ACTION: Submit photographs showing that the used oil and waste coolant drums have been properly labeled.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 34672
Site Name: GT PITSTOP Automotive services llc.
Violation Date: 07-31-2018
Citation: HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description: Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes: Returned to compliance on 08/30/2018. OBSERVATION: A 55-gallon drum of drained used oil filters was observed without an accumulation start date. Filters were observed being stored on top of the drum. CORRECTIVE ACTION: Submit a photograph showing that all filters are being stored inside of the properly labeled waste container.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 34672
Site Name: GT PITSTOP Automotive services llc.
Violation Date: 09-26-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 07/31/2018. Failure to obtain an EPA ID Number (CCR 66262.12(a))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

GRAND TERRACE GAS-UP #2603 (Continued) **S104025256**

Site ID: 34672
Site Name: GT PITSTOP Automotive services llc.
Violation Date: 07-31-2018
Citation: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description: Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.
Violation Notes: Returned to compliance on 08/30/2018. OBSERVATION: Oily absorbent was observed on the floor of the shop. CORRECTIVE ACTION: Submit a signed statement that all spilled oily absorbent is being cleaned up in a timely manner and properly disposed of as hazardous waste.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 34672
Site Name: GT PITSTOP Automotive services llc.
Violation Date: 09-28-2022
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 09/28/2022. OBSERVATION: At the time of inspection, the facility's EPA ID number was inactive. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an active EPA ID number. The violation was corrected at the time of inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-31-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION-GT PITSTOP
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-24-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: CERS
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-28-2022
Violations Found: Yes

GRAND TERRACE GAS-UP #2603 (Continued) **S104025256**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-31-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CLOSURE INSPECTION-GT AUTO SPORTS
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-31-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION-GT PITSTOP
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-03-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-24-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: labels
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-26-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Routine inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-28-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department

GRAND TERRACE GAS-UP #2603 (Continued) **S104025256**

Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-03-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 34672
Site Name: GT PITSTOP Automotive services llc.
Site Address: 22115 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 09-24-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 34672
Site Name: GT PITSTOP Automotive services llc.
Site Address: 22115 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 09-24-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 34672
Site Name: GT PITSTOP Automotive services llc.
Site Address: 22115 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 09-26-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Coordinates:
Site ID: 34672
Facility Name: GT PITSTOP Automotive services llc.
Env Int Type Code: HMBP

GRAND TERRACE GAS-UP #2603 (Continued) **S104025256**

Program ID: 10050364
Coord Name: Not reported
Ref Point Type Desc: Unknown,
Latitude: 34.033565
Longitude: -117.322006

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Patrick Kanchy
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: GT Pitstop Automotive Services LLC.
Entity Title: Not reported
Affiliation Address: 22115 Barton Rd.
Affiliation City: Grand Terrace
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92313
Affiliation Phone: (909) 572-6122,

Affiliation Type Desc: Operator
Entity Name: Carlos Campos
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 660-9614,

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401,

Affiliation Type Desc: Identification Signer
Entity Name: Carlos Campos
Entity Title: Owner
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

GRAND TERRACE GAS-UP #2603 (Continued) **S104025256**

Affiliation Type Desc:	Parent Corporation
Entity Name:	GT PITSTOP AUTO SPORTS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Environmental Contact
Entity Name:	Carlos Campos
Entity Title:	Not reported
Affiliation Address:	22115 Barton Rd.
Affiliation City:	GRAND TERRACE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92313
Affiliation Phone:	,

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	22115 BARTON RD
Affiliation City:	GRAND TERRACE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92324
Affiliation Phone:	,

Affiliation Type Desc:	Property Owner
Entity Name:	Mike Yassin
Entity Title:	Not reported
Affiliation Address:	22087 BARTON RD
Affiliation City:	GRAND TERRACE
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92324
Affiliation Phone:	(949) 701-1769,

Name:	GRAND TERRACE GAS-UP #2603
Address:	22115 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92324
Site ID:	187630
CERS ID:	T0607100600
CERS Description:	Leaking Underground Storage Tank Cleanup Site

A2 **JERRYS AUTO SERVICE** **EDR Hist Auto** **1020389356**
Target **22115 BARTON RD** **N/A**
Property **GRAND TERRACE, CA 92313**

Site 2 of 23 in cluster A

Actual: EDR Hist Auto
998 ft.

Year:	Name:	Type:
1995	JERRYS AUTO SERVICE	Gasoline Service Stations
1996	JERRYS AUTO SERVICE	Gasoline Service Stations
1997	JERRYS AUTO SERVICE	Gasoline Service Stations
1998	JERRYS AUTO SERVICE	Gasoline Service Stations
1999	JERRYS AUTO SERVICE	Gasoline Service Stations
2000	JERRYS AUTO SERVICE	Gasoline Service Stations
2001	JERRYS AUTO SERVICE	Gasoline Service Stations
2002	JERRYS AUTO SERVICE	Gasoline Service Stations
2003	JERRYS AUTO SERVICE	Gasoline Service Stations
2004	JERRYS AUTO SERVICE	Gasoline Service Stations
2005	JERRYS AUTO SERVICE	Gasoline Service Stations
2006	JERRYS AUTO SERVICE	Gasoline Service Stations

A3 **JERRYS AUTO SERVICE** **EDR Hist Auto** **1021729968**
Target **22115 BARTON RD** **N/A**
Property **COLTON, CA 92324**

Site 3 of 23 in cluster A

Actual: EDR Hist Auto
998 ft.

Year:	Name:	Type:
1969	LANE ROBERT H	Gasoline Service Stations
1970	LANE ROBERT H	Gasoline Service Stations
1992	JERRYS AUTO SERVICE	Gasoline Service Stations
1993	JERRYS AUTO SERVICE	Gasoline Service Stations
1994	JERRYS AUTO SERVICE	Gasoline Service Stations

A4 **CHMIRS** **S100279249**
Target **22115 BARTON RD** **N/A**
Property **GRAND TERRACE, CA 92324**

Site 4 of 23 in cluster A

Actual: CHMIRS:
998 ft.

Name:	Not reported
Address:	22115 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92324-5002
OES Incident Number:	905227
OES notification:	Not reported
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**10-MAR-89**
Property Use:	500
Agency Id Number:	36709
Agency Incident Number:	03-10-89-01
Time Notified:	830
Time Completed:	1200
Surrounding Area:	500

(Continued) **S100279249**

Estimated Temperature:	70
Property Management:	Not reported
More Than Two Substances Involved?:	N
Resp Agncy Personel # Of Decontaminated:	0
Responding Agency Personel # Of Injuries:	0
Responding Agency Personel # Of Fatalities:	0
Others Number Of Decontaminated:	0
Others Number Of Injuries:	0
Others Number Of Fatalities:	0
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	JERRY WONG
Report Date:	10-MAR-89
Facility Telephone:	714 387-3044
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Not reported
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	88-92
Agency:	Not reported
Incident Date:	10-MAR-89
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Not reported
Site Type:	Not reported
E Date:	07-MAY-90
Substance:	Not reported
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Not reported

A5 **GT PITSTOP AUTO SPORTS** **LUST** **S104565338**
Target **22115 BARTON RD** **San Bern. Co. Permit** **N/A**
Property **GRAND TERRACE, CA 92313** **HWTS**

Site 5 of 23 in cluster A

Actual:
998 ft.

LUST:
Name: GRAND TERRACE GAS-UP #2603
Address: 22115 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92324
Lead Agency: SAN BERNARDINO COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100600
Global Id: T0607100600
Latitude: 34.033568
Longitude: -117.32201
Status: Completed - Case Closed
Status Date: 03/15/2000
Case Worker: Not reported
RB Case Number: 083603551T
Local Agency: Not reported
File Location: Local Agency
Local Case Number: 99084
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0607100600
Action Type: Other
Date: 03/22/1999
Action: Leak Discovery

Global Id: T0607100600
Action Type: Other
Date: 04/14/1999
Action: Leak Reported

Global Id: T0607100600
Action Type: Other
Date: 03/22/1999
Action: Leak Stopped

LUST:
Global Id: T0607100600
Status: Open - Case Begin Date
Status Date: 03/22/1999

Global Id: T0607100600
Status: Open - Site Assessment
Status Date: 04/14/1999

Global Id: T0607100600
Status: Completed - Case Closed
Status Date: 03/15/2000

San Bern. Co. Permit:
Name: GT PITSTOP AUTO SPORTS

GT PITSTOP AUTO SPORTS (Continued) **S104565338**

Address: 22115 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0009805
Owner: YASIN, ALI
Permit Number: PT0016657
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: INACTIVE
Expiration Date: 05/31/2019

Name: GT PITSTOP AUTO SPORTS
Address: 22115 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0009805
Owner: YASIN, ALI
Permit Number: PT0016658
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 05/31/2014

Name: JERRY'S AUTO SERVICE
Address: 22115 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0004115
Owner: OKEL, SHARON
Permit Number: PT0005917
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/2005

HWTS:

Name:	GT PITSTOP
Address:	22115 BARTON RD
Address 2:	Not reported
City,State,Zip:	GRAND TERRACE, CA 92313
EPA ID:	CAL000438935
Inactive Date:	06/30/2020
Create Date:	09/11/2018
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	22115 BARTON RD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	GRAND TERRACE, CA 92313
Owner Name:	SAM PADILLA
Owner Address:	22115 BARTON RD
Owner Address 2:	Not reported
Owner City,State,Zip:	GRAND TERRACE, CA 92313
Contact Name:	SAMUEL PADILLA
Contact Address:	22115 BARTON RD
Contact Address 2:	Not reported
City,State,Zip:	GRAND TERRACE, CA 92313
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.033653

GT PITSTOP AUTO SPORTS (Continued) **S104565338**

Longitude: -117.3220155

NAICS:

EPA ID:	CAL000438935
Create Date:	2018-09-11 09:23:38.513
NAICS Code:	447190
NAICS Description:	Other Gasoline Stations
Issued EPA ID Date:	2018-09-11 09:23:38.50000
Inactive Date:	2020-06-30 00:00:00
Facility Name:	GT PITSTOP
Facility Address:	22115 BARTON RD
Facility Address 2:	Not reported
Facility City:	GRAND TERRACE
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92313

A6 **GT PITSTOP AUTOMOTIVE SERVICES LLC** **San Bern. Co. Permit** **S124855060**
Target **22115 BARTON RD** **HWTS** **N/A**
Property **GRAND TERRACE, CA 92313**

Site 6 of 23 in cluster A

Actual: 998 ft.

San Bern. Co. Permit:

Name:	GT PITSTOP AUTOMOTIVE SERVICES LLC
Address:	22115 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Region:	SAN BERNARDINO
Facility ID:	FA0018062
Owner:	GT PITSTOP AUTOMOTIVE SERVICES LLC
Permit Number:	PT0039054
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	09/30/2022

Name:	GT PITSTOP AUTOMOTIVE SERVICES LLC
Address:	22115 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Region:	SAN BERNARDINO
Facility ID:	FA0018062
Owner:	GT PITSTOP AUTOMOTIVE SERVICES LLC
Permit Number:	PT0039024
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	09/30/2022

HWTS:

Name:	G T PITSTOP
Address:	22115 BARTON RD
Address 2:	Not reported
City,State,Zip:	GRAND TERRACE, CA 92313
EPA ID:	CAL000295289
Inactive Date:	06/30/2014
Create Date:	06/16/2005
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	22115 BARTON RD

GT PITSTOP AUTOMOTIVE SERVICES LLC (Continued) **S124855060**

Mailing Address 2:	Not reported
Mailing City,State,Zip:	GRAND TERRACE, CA 923130000
Owner Name:	ALI YASIN
Owner Address:	22115 BARTON RD
Owner Address 2:	Not reported
Owner City,State,Zip:	GRAND TERRACE, CA 923130000
Contact Name:	ALI YASIN
Contact Address:	22115 BARTON RD
Contact Address 2:	Not reported
City,State,Zip:	GRAND TERRACE, CA 92313
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.033808
Longitude:	-117.322081

NAICS:

EPA ID:	CAL000295289
Create Date:	2005-06-16 11:26:58.130
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	2005-06-16 11:26:58.08300
Inactive Date:	2014-06-30 00:00:00
Facility Name:	G T PITSTOP
Facility Address:	22115 BARTON RD
Facility Address 2:	Not reported
Facility City:	GRAND TERRACE
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92313

A7 **GT PITSTOP** **RCRA NonGen / NLR** **1024870307**
Target **22115 BARTON RD** **CAL000438935**
Property **GRAND TERRACE, CA 92313**

Site 7 of 23 in cluster A

Actual:
998 ft.

RCRA Listings:

Date Form Received by Agency:		20180911
Handler Name:	GT PITSTOP	
Handler Address:		22115 BARTON RD
Handler City,State,Zip:		GRAND TERRACE, CA 92313
EPA ID:		CAL000438935
Contact Name:		SAMUEL PADILLA
Contact Address:		22115 BARTON RD
Contact City,State,Zip:		GRAND TERRACE, CA 92313
Contact Telephone:		909-572-6122
Contact Fax:		909-572-6122
Contact Email:		SAMUELP388@GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities

GT PITSTOP (Continued) **1024870307**

State District Owner:		Not reported
State District:		Not reported
Mailing Address:		22115 BARTON RD
Mailing City,State,Zip:		GRAND TERRACE, CA 92313
Owner Name:	SAM PADILLA	
Owner Type:		Other
Operator Name:	SAMUEL PADILLA	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:	Not reported	
Handler Date of Last Change:		20181001
Recognized Trader-Importer:		No

GT PITSTOP (Continued) **1024870307**

Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: SAM PADILLA	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	22115 BARTON RD
Owner/Operator City,State,Zip:	GRAND TERRACE, CA 92313
Owner/Operator Telephone:	909-269-0865
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: SAMUEL PADILLA	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	22115 BARTON RD
Owner/Operator City,State,Zip:	GRAND TERRACE, CA 92313
Owner/Operator Telephone:	909-572-6122
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20180911
Handler Name: GT PITSTOP	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	447190
NAICS Description:	OTHER GASOLINE STATIONS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

GT PITSTOP (Continued) **1024870307**

Evaluation Action Summary:
Evaluations: No Evaluations Found

A8 **INLAND COMMERICAL FUELING** **HAZNET** **S112866324**
Target **22115 BARTON** **HWTS** **N/A**
Property **GRAND TERRACE, CA 92324**

Site 8 of 23 in cluster A

Actual:
998 ft.

HAZNET:

Name:	INLAND COMMERICAL FUELING
Address:	22115 BARTON
Address 2:	Not reported
City,State,Zip:	GRAND TERRACE, CA 923240000
Contact:	RON WHITE/OWNER
Telephone:	9099818696
Mailing Name:	Not reported
Mailing Address:	918 W 25TH ST
Year:	1999
Gepaid:	CAC001086944
TSD EPA ID:	CAT080013352
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	R01 - Recycler
Tons:	1.52

Additional Info:

Year:	1999
Gen EPA ID:	CAC001086944
Shipment Date:	19990322
Creation Date:	5/17/1999 0:00:00
Receipt Date:	19990325
Manifest ID:	98606356
Trans EPA ID:	CAT080016116
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.52
Waste Quantity:	400
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

INLAND COMMERICAL FUELING (Continued) **S112866324**

HWTS:

Name:	INLAND COMMERICAL FUELING
Address:	22115 BARTON
Address 2:	Not reported
City,State,Zip:	GRAND TERRACE, CA 92324
EPA ID:	CAC001086944
Inactive Date:	10/25/2000
Create Date:	03/16/1999
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	918 W 25TH ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	UPLAND, CA 917840000
Owner Name:	RON WHITE
Owner Address:	918 W 25TH ST
Owner Address 2:	Not reported
Owner City,State,Zip:	UPLAND, CA 917840000
Contact Name:	RON WHITE/OWNER
Contact Address:	918 W 25TH ST
Contact Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917840000
Facility Status:	Inactive
Facility Type:	TEMPORARY
Category:	STATE
Latitude:	34.051998
Longitude:	-117.27814

A9 **GT PITSTOP AUTO SPORTS** **FINDS** **1023371806**
Target **22115 BARTON RD** **N/A**
Property **GRAND TERRACE, CA 92313**

Site 9 of 23 in cluster A

Actual:
998 ft.

FINDS:
Registry ID: 110066696846

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A10 **GRAND TERRACE GAS-UP #2603** **FINDS** **1023257680**
Target **22115 BARTON RD** **N/A**
Property **GRAND TERRACE, CA 92324**

Site 10 of 23 in cluster A

Actual:
998 ft.

FINDS:
Registry ID: 110065468372

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
STATE MASTER

GRAND TERRACE GAS-UP #2603 (Continued) **1023257680**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A11 **GRAND TERRACE GAS-UP** **HIST UST** **U001574673**
Target **22115 BARTON RD** **N/A**
Property **GRAND TERRACE, CA 92324**

Site 11 of 23 in cluster A

Actual:
998 ft.

HIST UST:

Name:	GRAND TERRACE GAS-UP
Address:	22115 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92324
File Number:	0002A47D
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A47D.pdf
Region:	STATE
Facility ID:	00000009388
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	7149828954
Owner Name:	R.F. WHITE CO., INC.
Owner Address:	1401 E. ARROW HWY
Owner City,St,Zip:	UPLAND, CA 91786
Total Tanks:	0003
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00007500
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00007500
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00007500
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

A12 **GT PITSTOP** **FINDS** **1024699748**
Target **22115 BARTON RD** **ECHO** **N/A**
Property **GRAND TERRACE, CA 92313**

Site 12 of 23 in cluster A

Actual:
998 ft.

FINDS:
Registry ID: 110070488142

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1024699748
Registry ID:	110070488142
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110070488142
Name:	GT PITSTOP
Address:	22115 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313

A13 **GRAND TERRACE GAS-UP** **SWEEPS UST** **S101619237**
Target **22115 BARTON RD** **CA FID UST** **N/A**
Property **GRAND TERRACE, CA 92324** **HIST CORTESE**

Site 13 of 23 in cluster A

Actual:
998 ft.

SWEEPS UST:

Name:	GRAND TERRACE GAS-UP
Address:	22115 BARTON RD
City:	GRAND TERRACE
Status:	Active
Comp Number:	9388
Number:	9
Board Of Equalization:	44-020193
Referral Date:	07-28-92
Action Date:	07-28-92
Created Date:	02-29-88
Owner Tank Id:	1
SWRCB Tank Id:	36-000-009388-000001
Tank Status:	A
Capacity:	8000
Active Date:	07-11-88
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	4

Name:	GRAND TERRACE GAS-UP
Address:	22115 BARTON RD
City:	GRAND TERRACE
Status:	Active

GRAND TERRACE GAS-UP (Continued) **S101619237**

Comp Number:	9388
Number:	9
Board Of Equalization:	44-020193
Referral Date:	07-28-92
Action Date:	07-28-92
Created Date:	02-29-88
Owner Tank Id:	2
SWRCB Tank Id:	36-000-009388-000002
Tank Status:	A
Capacity:	8000
Active Date:	07-11-88
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Name:	GRAND TERRACE GAS-UP
Address:	22115 BARTON RD
City:	GRAND TERRACE
Status:	Active
Comp Number:	9388
Number:	9
Board Of Equalization:	44-020193
Referral Date:	07-28-92
Action Date:	07-28-92
Created Date:	02-29-88
Owner Tank Id:	3
SWRCB Tank Id:	36-000-009388-000003
Tank Status:	A
Capacity:	80000
Active Date:	07-11-88
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	Not reported

Name:	GRAND TERRACE GAS-UP
Address:	22115 BARTON RD
City:	GRAND TERRACE
Status:	Active
Comp Number:	9388
Number:	9
Board Of Equalization:	44-020193
Referral Date:	07-28-92
Action Date:	07-28-92
Created Date:	02-29-88
Owner Tank Id:	4
SWRCB Tank Id:	36-000-009388-000004
Tank Status:	A
Capacity:	550
Active Date:	07-11-88
Tank Use:	OIL
STG:	W
Content:	WASTE OIL
Number Of Tanks:	Not reported

GRAND TERRACE GAS-UP (Continued) **S101619237**

CA FID UST:
Facility ID: 36008490
Regulated By: UTNKA
Regulated ID: 00009388
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 1401 E ARROW HWY
Mailing Address 2: Not reported
Mailing City,St,Zip: GRAND TERRACE 92324
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HIST CORTESE:
edr_fname: GRAND TERRACE GAS-UP #260
edr_fadd1: 22115
City,State,Zip: GRAND TERRACE, CA 92324
Region: CORTESE
Facility County Code: 36
Reg By: LTNKA
Reg Id: 083603551T

A14 **GRAND TERRACE GAS-UP #2603** **RGA LUST** **S114628476**
Target Property **22115 BARTON RD** **N/A**
GRAND TERRACE, CA

Site 14 of 23 in cluster A

Actual: 998 ft.

RGA LUST:
Name: GRAND TERRACE GAS-UP #2603
Address: 22115 BARTON RD
City: GRAND TERRACE
State: GRAND TERRACE
2012 GRAND TERRACE GAS-UP #2603 22115 BARTON RD
Name: GRAND TERRACE GAS-UP #2603
Address: 22115 BARTON RD
City: GRAND TERRACE
State: GRAND TERRACE
2011 GRAND TERRACE GAS-UP #2603 22115 BARTON RD
Name: GRAND TERRACE GAS-UP #2603
Address: 22115 BARTON RD
City: GRAND TERRACE
State: GRAND TERRACE
2010 GRAND TERRACE GAS-UP #2603 22115 BARTON RD
Name: GRAND TERRACE GAS-UP #2603
Address: 22115 BARTON RD
City: GRAND TERRACE
State: GRAND TERRACE
2009 GRAND TERRACE GAS-UP #2603 22115 BARTON RD
Name: GRAND TERRACE GAS-UP #2603
Address: 22115 BARTON RD

GRAND TERRACE GAS-UP #2603 (Continued) **S114628476**

City: GRAND TERRACE
State: GRAND TERRACE
2008 GRAND TERRACE GAS-UP #2603 22115 BARTON RD
Name: GRAND TERRACE GAS-UP #2603
Address: 22115 BARTON RD
City: GRAND TERRACE
State: GRAND TERRACE
2007 GRAND TERRACE GAS-UP #2603 22115 BARTON RD
Name: GRAND TERRACE GAS-UP #2603
Address: 22115 BARTON RD
City: GRAND TERRACE
State: GRAND TERRACE
2006 GRAND TERRACE GAS-UP #2603 22115 BARTON RD
Name: GRAND TERRACE GAS-UP #2603
Address: 22115 BARTON RD
City: GRAND TERRACE
State: GRAND TERRACE
2005 GRAND TERRACE GAS-UP #2603 22115 BARTON RD
Name: GRAND TERRACE GAS-UP #2603
Address: 22115 BARTON RD
City: GRAND TERRACE
State: GRAND TERRACE
2003 GRAND TERRACE GAS-UP #2603 22115 BARTON RD
Name: GRAND TERRACE GAS-UP #2603
Address: 22115 BARTON RD
City: GRAND TERRACE
State: GRAND TERRACE
2002 GRAND TERRACE GAS-UP #2603 22115 BARTON RD
Name: GRAND TERRACE GAS-UP #2603
Address: 22115 BARTON RD
City: GRAND TERRACE
State: GRAND TERRACE
2001 GRAND TERRACE GAS-UP #2603 22115 BARTON RD

A15 **AUTOZONE #5614** **RCRA NonGen / NLR** **1024798953**
East **22125 BARTON RD** **CAL000206942**
< 1/8 **GRAND TERRACE, CA 92313**
0.010 mi.
52 ft. **Site 15 of 23 in cluster A**

Relative: RCRA Listings:
Higher

Date Form Received by Agency:		19990406
Actual: Handler Name:	AUTOZONE #5614	
1001 ft. Handler Address:		22125 BARTON RD
Handler City,State,Zip:		GRAND TERRACE, CA 92313-0000
EPA ID:		CAL000206942
Contact Name:		BRYAN BLAIR
Contact Address:		DEPT 8190, 123 SOUTH FRONT STREET
Contact City,State,Zip:		MEMPHIS, TN 38103
Contact Telephone:		901-495-7217
Contact Fax:		901-495-8399
Contact Email:		BRYAN.BLAIR@AUTOZONE.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported

AUTOZONE #5614 (Continued) **1024798953**

Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	DEPT 8190, 123 S FRONT ST
Mailing City,State,Zip:	MEMPHIS, TN 38103-3607
Owner Name:	AUTO ZONE CORPORTATION
Owner Type:	Other
Operator Name:	BRYAN BLAIR
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported

AUTOZONE #5614 (Continued) **1024798953**

Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: AUTO ZONE CORPORTATION	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	123 S FRONT ST
Owner/Operator City,State,Zip:	MEMPHIS, TN 38103-3607
Owner/Operator Telephone:	901-495-6500
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: BRYAN BLAIR	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	DEPT 8190, 123 SOUTH FRONT STREET
Owner/Operator City,State,Zip:	MEMPHIS, TN 38103
Owner/Operator Telephone:	901-495-7217
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19990406
Handler Name: AUTOZONE #5614	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	45299
NAICS Description:	ALL OTHER GENERAL MERCHANDISE STORES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

AUTOZONE #5614 (Continued) **1024798953**

Evaluation Action Summary:
Evaluations: No Evaluations Found

A16
East
< 1/8
0.010 mi.
52 ft.

AUTOZONE #5614
22125 BARTON RD
GRAND TERRACE, CA 92313

San Bern. Co. Permit **S105697576**
N/A

Site 16 of 23 in cluster A

Relative:
Higher

Actual:
1001 ft.

San Bern. Co. Permit:

Name:	AUTOZONE #5614
Address:	22125 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Region:	SAN BERNARDINO
Facility ID:	FA0001228
Owner:	AutoZone Stores Inc
Permit Number:	PT0018264
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	12/31/2017

Name:	AUTOZONE #5614
Address:	22125 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Region:	SAN BERNARDINO
Facility ID:	FA0001228
Owner:	AutoZone Stores Inc
Permit Number:	PT0018265
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	INACTIVE
Expiration Date:	12/31/2017

Name:	MALY'S OF CALIFORNIA INC
Address:	22125 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92324
Region:	SAN BERNARDINO
Facility ID:	FA0004568
Owner:	MALY'S OF CALIFORNIA INC
Permit Number:	PT0008573
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	08/31/2007

Name:	MALY'S OF CALIFORNIA INC
Address:	22125 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92324
Region:	SAN BERNARDINO
Facility ID:	FA0004568
Owner:	MALY'S OF CALIFORNIA INC
Permit Number:	PT0008574
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	08/31/2007

Name:	AUTOZONE #5614
Address:	22125 BARTON RD

AUTOZONE #5614 (Continued) **S105697576**

City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0001228
Owner: AutoZone Stores Inc
Permit Number: PT0009840
Permit Category: HAZMAT HANDLER - USED OIL COLLECTION CENTERS
Facility Status: INACTIVE
Expiration Date: 12/31/2006

A17 **MOBIL STATION 92** **SWEEPS UST** **S106929536**
NW **22087 BARTON RD** **HIST UST** **N/A**
< 1/8 **COLTON, CA 92324**
0.012 mi.
61 ft. **Site 17 of 23 in cluster A**

Relative: **Lower**
Actual: **995 ft.**

SWEEPS UST:
Name: MOBIL STATION #92
Address: 22087 BARTON RD
City: COLTON
Status: Active
Comp Number: 19616
Number: 9
Board Of Equalization: 44-000400
Referral Date: 07-28-92
Action Date: 07-28-92
Created Date: 02-29-88
Owner Tank Id: 1
SWRCB Tank Id: 36-000-019616-000001
Tank Status: A
Capacity: 10000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: 4

Name: MOBIL STATION #92
Address: 22087 BARTON RD
City: COLTON
Status: Active
Comp Number: 19616
Number: 9
Board Of Equalization: 44-000400
Referral Date: 07-28-92
Action Date: 07-28-92
Created Date: 02-29-88
Owner Tank Id: 2
SWRCB Tank Id: 36-000-019616-000002
Tank Status: A
Capacity: 10000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: MOBIL STATION #92
Address: 22087 BARTON RD

MOBIL STATION 92 (Continued) **S106929536**

City: COLTON
Status: Active
Comp Number: 19616
Number: 9
Board Of Equalization: 44-000400
Referral Date: 07-28-92
Action Date: 07-28-92
Created Date: 02-29-88
Owner Tank Id: 3
SWRCB Tank Id: 36-000-019616-000003
Tank Status: A
Capacity: 10000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: MOBIL STATION #92
Address: 22087 BARTON RD
City: COLTON
Status: Active
Comp Number: 19616
Number: 9
Board Of Equalization: 44-000400
Referral Date: 07-28-92
Action Date: 07-28-92
Created Date: 02-29-88
Owner Tank Id: 4
SWRCB Tank Id: 36-000-019616-000004
Tank Status: A
Capacity: 550
Active Date: 07-01-85
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: Not reported

HIST UST:
Name: MOBIL STATION 92
Address: 22087 BARTON RD
City,State,Zip: COLTON, CA 92324
File Number: 00029E09
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029E09.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported

MOBIL STATION 92 (Continued) **S106929536**

Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

A18 **QWIK STOP ARCO** **RCRA NonGen / NLR** **1024875501**
WNW **22087 BARTON RD** **CAL912633553**
< 1/8 **GRAND TERRACE, CA 92324**
0.023 mi.
121 ft. **Site 18 of 23 in cluster A**

Relative: **Lower**
Actual: **993 ft.**

RCRA Listings:

Date Form Received by Agency:		19910920
Handler Name:	QWIK STOP ARCO	
Handler Address:		22087 BARTON RD
Handler City,State,Zip:		GRAND TERRACE, CA 92324
EPA ID:		CAL912633553
Contact Name:		MIKE YASIN
Contact Address:		22087 BARTON RD
Contact City,State,Zip:		GRAND TERRACE, CA 92324
Contact Telephone:		949-701-1769
Contact Fax:		Not reported
Contact Email:		M1YASIN@YAHOO.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		22087 BARTON RD
Mailing City,State,Zip:		GRAND TERRACE, CA 92324
Owner Name:	ALI YASIN	
Owner Type:		Other
Operator Name:	MIKE YASIN	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported

QWIK STOP ARCO (Continued) **1024875501**

Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20180907
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: ALI YASIN	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	22087 BARTON RD
Owner/Operator City,State,Zip:	GRAND TERRACE, CA 92324
Owner/Operator Telephone:	909-424-0275
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: MIKE YASIN	

QWIK STOP ARCO (Continued) **1024875501**

Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	22087 BARTON RD
Owner/Operator City,State,Zip:	GRAND TERRACE, CA 92324
Owner/Operator Telephone:	949-701-1769
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19910920
Handler Name: QWIK STOP ARCO	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	44711
NAICS Description:	GASOLINE STATIONS WITH CONVENIENCE STORES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

A19 **QUICK STOP #5** **UST** **U004050637**
WNW **22087 BARTON RD** **N/A**
< 1/8 **GRAND TERRACE, CA 92313**
0.023 mi.
121 ft. **Site 19 of 23 in cluster A**

Relative: UST:
Lower

Actual: Name:	QUICK STOP #5
993 ft. Address:	22087 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Facility ID:	FA0005497
Permitting Agency:	San Bernardino County Fire Department
CERSID:	10043422
Latitude:	34.0335660
Longitude:	-117.3227310
Owner type:	Non-Government
Facility type:	Motor Vehicle Fueling
Num of inuse ust:	Not reported
Num of closed ust:	0
Num of oos ust:	0
Epa region:	9

QUICK STOP #5 (Continued) **U004050637**

Tribal lands:	No
Tank owner name:	Salam Yasin
Tank owner mailing address:	22087 Barton Rd.
Tank owner mailing city:	Grand Terrace
Tank owner mailing zip:	92313
Tank owner mailing state:	CA
Tank operator name:	Salam Yasin
Tank operator mailing address:	22087 Barton Rd.
Tank operator mailing city:	Grand Terrace
Tank operator mailing zip:	92313
Tank operator mailing state:	CA
Tankidnumber:	2B
Tank status:	Confirmed/Updated Information
Tank configuration:	One in a Compartmented Unit
Tank closure date:	Not reported
Tank installation date:	11/3/1998 12:00:00 AM
Tank num of compartments:	2
Tank contents:	Diesel
Tank capacity gallons:	10000
Tank type:	Double Wall
Tank pc construction:	Steel
Tank pwpiping construction:	Flexible
Tank piping type:	Pressure
Tank piping construction:	Double Walled
Tank sacrificial anode:	No
Tank cp impressed current:	No
Tank cp shutoff:	No
Tank alarms:	Yes
Tank ball float:	Yes
Tank spill bucket:	Yes

Name:	QUICK STOP #5
Address:	22087 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Facility ID:	FA0005497
Permitting Agency:	San Bernardino County Fire Department
CERSID:	10043422
Latitude:	34.0335660
Longitude:	-117.3227310
Owner type:	Non-Government
Facility type:	Motor Vehicle Fueling
Num of inuse ust:	Not reported
Num of closed ust:	0
Num of oos ust:	0
Epa region:	9
Tribal lands:	No
Tank owner name:	Salam Yasin
Tank owner mailing address:	22087 Barton Rd.
Tank owner mailing city:	Grand Terrace
Tank owner mailing zip:	92313
Tank owner mailing state:	CA
Tank operator name:	Salam Yasin
Tank operator mailing address:	22087 Barton Rd.
Tank operator mailing city:	Grand Terrace
Tank operator mailing zip:	92313
Tank operator mailing state:	CA
Tankidnumber:	2A

QUICK STOP #5 (Continued) **U004050637**

Tank status:	Confirmed/Updated Information
Tank configuration:	One in a Compartmented Unit
Tank closure date:	Not reported
Tank installation date:	11/3/1998 12:00:00 AM
Tank num of compartments:	2
Tank contents:	Premium Unleaded
Tank capacity gallons:	10000
Tank type:	Double Wall
Tank pc construction:	Steel
Tank pwpiping construction:	Flexible
Tank piping type:	Pressure
Tank piping construction:	Double Walled
Tank sacrificial anode:	No
Tank cp impressed current:	No
Tank cp shutoff:	No
Tank alarms:	Yes
Tank ball float:	Yes
Tank spill bucket:	Yes

Name:	QUICK STOP #5
Address:	22087 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Facility ID:	FA0005497
Permitting Agency:	San Bernardino County Fire Department
CERSID:	10043422
Latitude:	34.0335660
Longitude:	-117.3227310
Owner type:	Non-Government
Facility type:	Motor Vehicle Fueling
Num of inuse ust:	Not reported
Num of closed ust:	0
Num of oos ust:	0
Epa region:	9
Tribal lands:	No
Tank owner name:	Salam Yasin
Tank owner mailing address:	22087 Barton Rd.
Tank owner mailing city:	Grand Terrace
Tank owner mailing zip:	92313
Tank owner mailing state:	CA
Tank operator name:	Salam Yasin
Tank operator mailing address:	22087 Barton Rd.
Tank operator mailing city:	Grand Terrace
Tank operator mailing zip:	92313
Tank operator mailing state:	CA
Tankidnumber:	1
Tank status:	Confirmed/Updated Information
Tank configuration:	Stand Alone Tank
Tank closure date:	Not reported
Tank installation date:	11/3/1998 12:00:00 AM
Tank num of compartments:	1
Tank contents:	Regular Unleaded
Tank capacity gallons:	20000
Tank type:	Double Wall
Tank pc construction:	Steel
Tank pwpiping construction:	Flexible
Tank piping type:	Pressure
Tank piping construction:	Double Walled

QUICK STOP #5 (Continued) **U004050637**

Tank sacrificial anode:	No
Tank cp impressed current:	No
Tank cp shutoff:	Yes
Tank alarms:	Yes
Tank ball float:	No
Tank spill bucket:	Yes

Name:	QUICK STOP #5
Address:	22087 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Facility ID:	FA0005497
Permitting Agency:	San Bernardino County Fire Department
CERSID:	10043422
Latitude:	34.0335660
Longitude:	-117.3227310
Owner type:	Non-Government
Facility type:	Motor Vehicle Fueling
Num of inuse ust:	Not reported
Num of closed ust:	0
Num of oos ust:	0
Epa region:	9
Tribal lands:	No
Tank owner name:	Salam Yasin
Tank owner mailing address:	22087 Barton Rd.
Tank owner mailing city:	Grand Terrace
Tank owner mailing zip:	92313
Tank owner mailing state:	CA
Tank operator name:	Salam Yasin
Tank operator mailing address:	22087 Barton Rd.
Tank operator mailing city:	Grand Terrace
Tank operator mailing zip:	92313
Tank operator mailing state:	CA
Tankidnumber:	3
Tank status:	Confirmed/Updated Information
Tank configuration:	Stand Alone Tank
Tank closure date:	Not reported
Tank installation date:	11/3/1998 12:00:00 AM
Tank num of compartments:	1
Tank contents:	Used Oil
Tank capacity gallons:	500
Tank type:	Double Wall
Tank pc construction:	Steel
Tank pwpiping construction:	None
Tank piping type:	Gravity
Tank piping construction:	Other
Tank sacrificial anode:	No
Tank cp impressed current:	No
Tank cp shutoff:	No
Tank alarms:	No
Tank ball float:	No
Tank spill bucket:	Yes

A20
WNW
< 1/8
0.023 mi.
121 ft.

Relative:
Lower

Actual:
993 ft.

MOBIL STATION #92
22087 BARTON RD
GRAND TERRACE, CA 92324

Site 20 of 23 in cluster A

Database(s): LUST, CERS HAZ WASTE, HIST UST, CERS TANKS, Cortese, HAZNET, San Bern. Co. Permit, CERS, HWTS

EDR ID Number: U001574688
EPA ID Number: N/A

LUST:

Name:	QWIK STOP ARCO
Address:	22087 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92324
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100544
Global Id:	T0607100544
Latitude:	34.0337681
Longitude:	-117.3228929
Status:	Completed - Case Closed
Status Date:	08/08/2017
Case Worker:	VJB
RB Case Number:	083603377T
Local Agency:	SAN BERNARDINO COUNTY
File Location:	Regional Board
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply, Soil, Soil Vapor
Potential Contaminants of Concern:	Benzene, Toluene, Xylene, MTBE / TBA / Other Fuel Oxygenates, Gasoline
Site History:	Environmental reports pertaining to subsurface investigations/testing and site remediation performed in conjunction with this project, as well as the Regional Board case file, should be reviewed in their entirety to obtain further details regarding this cleanup effort. Regional Board staff are not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants working for the responsible party. RWQCB-SA Note: The LTCP evaluation for this site was prepared by USTCF personnel without input or review from the lead oversight agency and information contained therein does not reflect the views and opinions of this agency.

LUST:

Global Id:	T0607100544
Contact Type:	Local Agency Caseworker
Contact Name:	CATHERINE RICHARDS
Organization Name:	SAN BERNARDINO COUNTY
Address:	620 SOUTH E STREET
City:	SAN BERNARDINO
Email:	crichards@sbcfire.org
Phone Number:	9093868419

Global Id:	T0607100544
Contact Type:	Regional Board Caseworker
Contact Name:	VALERIE JAHN-BULL
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	valerie.jahn-bull@waterboards.ca.gov
Phone Number:	9517824903

MOBIL STATION #92 (Continued) **U001574688**

LUST:

Global Id:	T0607100544
Action Type:	ENFORCEMENT
Date:	04/07/2010
Action:	Staff Letter
Global Id:	T0607100544
Action Type:	ENFORCEMENT
Date:	02/17/2011
Action:	Site Visit / Inspection / Sampling
Global Id:	T0607100544
Action Type:	ENFORCEMENT
Date:	08/06/2010
Action:	Letter - Notice
Global Id:	T0607100544
Action Type:	ENFORCEMENT
Date:	09/26/2012
Action:	Verbal Enforcement
Global Id:	T0607100544
Action Type:	ENFORCEMENT
Date:	02/20/2013
Action:	State Water Board Closure Order
Global Id:	T0607100544
Action Type:	ENFORCEMENT
Date:	12/07/2015
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0607100544
Action Type:	ENFORCEMENT
Date:	08/08/2017
Action:	Closure/No Further Action Letter - #WQ2014-0051
Global Id:	T0607100544
Action Type:	Other
Date:	12/31/1998
Action:	Leak Discovery
Global Id:	T0607100544
Action Type:	ENFORCEMENT
Date:	12/10/2010
Action:	Referral to Regional Board
Global Id:	T0607100544
Action Type:	ENFORCEMENT
Date:	09/30/2011
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0607100544
Action Type:	ENFORCEMENT
Date:	06/11/2013
Action:	File review
Global Id:	T0607100544

MOBIL STATION #92 (Continued) **U001574688**

Action Type: ENFORCEMENT
Date: 09/06/2012
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 03/10/2011
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 04/14/2011
Action: File review

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 03/15/2011
Action: File review

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 05/08/2013
Action: File review

Global Id: T0607100544
Action Type: Other
Date: 02/03/1999
Action: Leak Reported

Global Id: T0607100544
Action Type: RESPONSE
Date: 06/30/2016
Action: Well Destruction Report - Regulator Responded

Global Id: T0607100544
Action Type: REMEDIATION
Date: 10/19/2007
Action: Soil Vapor Extraction (SVE)

Global Id: T0607100544
Action Type: REMEDIATION
Date: 10/01/2007
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 09/25/2009
Action: Staff Letter

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 12/21/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 02/29/2012

MOBIL STATION #92 (Continued) **U001574688**

Action: File review

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 04/05/2012
Action: Staff Letter

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 04/12/2012
Action: Staff Letter

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 11/04/2012
Action: File review

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 03/24/2014
Action: State Water Board Closure Order

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 07/20/2016
Action: Technical Correspondence / Assistance / Other

Global Id: T0607100544
Action Type: RESPONSE
Date: 10/25/2011
Action: Verbal Communication - Regulator Responded

Global Id: T0607100544
Action Type: RESPONSE
Date: 12/14/2011
Action: Other Report / Document - Regulator Responded

Global Id: T0607100544
Action Type: RESPONSE
Date: 04/12/2012
Action: Other Report / Document - Regulator Responded

Global Id: T0607100544
Action Type: RESPONSE
Date: 05/22/2013
Action: Verbal Communication - Regulator Responded

Global Id: T0607100544
Action Type: RESPONSE
Date: 09/24/2014
Action: Well Destruction Report - Regulator Responded

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 07/09/2009
Action: Letter - Notice

MOBIL STATION #92 (Continued) **U001574688**

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 11/28/2008
Action: Notice of Violation

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 10/08/2009
Action: Staff Letter

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 12/10/2010
Action: Referral to Regional Board

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 12/13/2013
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 12/13/2013
Action: Clean Up Fund - Letter to RP

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 01/02/2014
Action: File review

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 07/11/2014
Action: Technical Correspondence / Assistance / Other

Global Id: T0607100544
Action Type: ENFORCEMENT
Date: 05/31/2016
Action: File review

Global Id: T0607100544
Action Type: Other
Date: 10/21/1998
Action: Leak Stopped

Global Id: T0607100544
Action Type: RESPONSE
Date: 01/31/2012
Action: Other Workplan

Global Id: T0607100544
Action Type: RESPONSE
Date: 01/31/2012
Action: Remedial Progress Report

LUST:
Global Id: T0607100544

MOBIL STATION #92 (Continued) **U001574688**

Status: Open - Case Begin Date
Status Date: 10/21/1998

Global Id: T0607100544
Status: Open - Site Assessment
Status Date: 10/21/1998

Global Id: T0607100544
Status: Open - Verification Monitoring
Status Date: 04/12/2012

Global Id: T0607100544
Status: Open - Inactive
Status Date: 11/04/2012

Global Id: T0607100544
Status: Open - Inactive
Status Date: 05/08/2013

Global Id: T0607100544
Status: Open - Eligible for Closure
Status Date: 07/18/2013

Global Id: T0607100544
Status: Open - Inactive
Status Date: 07/18/2013

Global Id: T0607100544
Status: Open - Eligible for Closure
Status Date: 07/11/2014

Global Id: T0607100544
Status: Open - Inactive
Status Date: 05/05/2015

Global Id: T0607100544
Status: Open - Eligible for Closure
Status Date: 10/13/2015

Global Id: T0607100544
Status: Open - Inactive
Status Date: 10/13/2015

Global Id: T0607100544
Status: Completed - Case Closed
Status Date: 08/08/2017

CERS HAZ WASTE:
Name: QUICK STOP #5
Address: 22087 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Site ID: 145708
CERS ID: 10043422
CERS Description: Hazardous Waste Generator

MOBIL STATION #92 (Continued) **U001574688**

HIST UST:

Name:	MOBIL STATION #92
Address:	22087 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92324
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000019616
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	NABIH AKAR
Telephone:	7147839959
Owner Name:	E-Z SERVE OF CALIFORNIA, INC.
Owner Address:	316 S. BON VIEW AVE.
Owner City,St,Zip:	ONTARIO, CA 91761
Total Tanks:	0005
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	None
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	None
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	None
Tank Num:	004
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	12
Leak Detection:	Stock Inventor
Tank Num:	005
Container Num:	5
Year Installed:	Not reported
Tank Capacity:	00000000

MOBIL STATION #92 (Continued) **U001574688**

Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: None

CERS TANKS:
Name: QUICK STOP #5
Address: 22087 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Site ID: 145708
CERS ID: 10043422
CERS Description: Underground Storage Tank

CORTESE:
Name: QWIK STOP ARCO
Address: 22087 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92324
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607100544
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HAZNET:
Name: QWIK STOP ARCO
Address: 22087 BARTON RD
Address 2: Not reported
City,State,Zip: GRAND TERRACE, CA 923130000
Contact: MIKE YASIN
Telephone: 9497011769
Mailing Name: Not reported
Mailing Address: 22087 BARTON RD

Year: 2019
Gepaid: CAL912633553
TSD EPA ID: CAD028409019
CA Waste Code: 241 - Tank bottom waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.45870

MOBIL STATION #92 (Continued) **U001574688**

Year:	2013
Gepaid:	CAL912633553
TSD EPA ID:	CAD099452708
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.38

Additional Info:

Year:	2013
Gen EPA ID:	CAL912633553
Shipment Date:	20130124
Creation Date:	3/19/2013 22:15:10
Receipt Date:	20130125
Manifest ID:	008625430JJK
Trans EPA ID:	CAL000350237
Trans Name:	STRESS LESS EXPRESS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL CO INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.38
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

San Bern. Co. Permit:

Name:	QUICK STOP #5
Address:	22087 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 9213
Region:	SAN BERNARDINO
Facility ID:	FA0005497
Owner:	Salam Yasin
Permit Number:	PT0001839
Permit Category:	HAZMAT HANDLER, UST ONLY - PER YEAR
Facility Status:	ACTIVE
Expiration Date:	10/31/2022

Name:	QUICK STOP #5
Address:	22087 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 9213
Region:	SAN BERNARDINO
Facility ID:	FA0005497
Owner:	Salam Yasin

MOBIL STATION #92 (Continued) **U001574688**

Permit Number: PT0001840
Permit Category: WASTE INCIDENTAL UST OPERATION ONLY -PER YEAR
Facility Status: ACTIVE
Expiration Date: 10/31/2022

Name: QUICK STOP #5
Address: 22087 BARTON RD
City,State,Zip: GRAND TERRACE, CA 9213
Region: SAN BERNARDINO
Facility ID: FA0005497
Owner: Salam Yasin
Permit Number: PT0012364
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: ACTIVE
Expiration Date: 10/31/2022

Name: QUICK STOP #5
Address: 22087 BARTON RD
City,State,Zip: GRAND TERRACE, CA 9213
Region: SAN BERNARDINO
Facility ID: FA0005497
Owner: Salam Yasin
Permit Number: PT0012365
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: ACTIVE
Expiration Date: 10/31/2022

Name: QUICK STOP #5
Address: 22087 BARTON RD
City,State,Zip: GRAND TERRACE, CA 9213
Region: SAN BERNARDINO
Facility ID: FA0005497
Owner: Salam Yasin
Permit Number: PT0012366
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: ACTIVE
Expiration Date: 10/31/2022

Name: QUICK STOP #5
Address: 22087 BARTON RD
City,State,Zip: GRAND TERRACE, CA 9213
Region: SAN BERNARDINO
Facility ID: FA0005497
Owner: Salam Yasin
Permit Number: PT0012367
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: ACTIVE
Expiration Date: 10/31/2022

CERS:
Name: QUICK STOP #5
Address: 22087 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Site ID: 145708
CERS ID: 10043422
CERS Description: Chemical Storage Facilities

MOBIL STATION #92 (Continued) **U001574688**

Violations:

Site ID:	145708
Site Name:	QUICK STOP #5
Violation Date:	01-06-2014
Citation:	HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Description:	Failure to prepare, maintain, and submit accurate CUPA UST Operating Permit Application for Facility information and/or Tank information.
Violation Notes:	Returned to compliance on 07/06/2015. THE OPERATING PERMIT HAS NOT BEEN SUBMITTED TO CERS. PLEASE SUBMIT THIS DOCUMENT TO CERS WITHIN 30 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,

Site ID:	145708
Site Name:	QUICK STOP #5
Violation Date:	03-09-2017
Citation:	HSC 6.7 29291(b) - California Health and Safety Code, Chapter 6.7, Section(s) 29291(b)
Violation Description:	Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance into the secondary containment.
Violation Notes:	Returned to compliance on 08/30/2017. OBSERVATION: THE OBSERVED PORTION OF THE SB989 TESTING REVEALED SEVERAL FAILURES THAT WILL REQUIRE INVESTIGATION TO DETERMINE CAUSE. REQUIREMENT: WITHIN 30 DAYS, SUBMIT THE COMPLETED SECONDARY CONTAINMENT TEST RESULTS TO THIS DEPARTMENT AND PROPOSE A SCOPE OF WORK TO ADDRESS ALL FAILURES. A UST MODIFICATION PERMIT AND PLANS MAY BE REQUIRED PRIOR TO INITIATING REPAIR WORK. FAILURE TO CORRECT FAILURES TO THE SECONDARY CONTAINMENT SYSTEM WILL RESULT IN FORMAL ENFORCEMENT.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,

Site ID:	145708
Site Name:	QUICK STOP #5
Violation Date:	04-30-2018
Citation:	HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description:	Failure to test the spill bucket annually.
Violation Notes:	Returned to compliance on 04/30/2018. OBSERVATION: ANNUAL OVERSPILL CONTAINMENT TESTING IS PASSED DUE. OVERSPILL CONTAINMENT TESTING WAS LAST CONDUCTED ON 3/9/2017. CORRECTED TODAY. COMPLIANCE REQUIREMENT: OVERSPILL CONTAINMENT TESTING MUST BE CONDUCTED ANNUALLY.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,

Site ID:	145708
Site Name:	QUICK STOP #5
Violation Date:	03-09-2017
Citation:	23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description:	Failure to comply with one or more of the following: Failure to install or maintain a liquid-tight spill bucket. Have a minimum capacity of five gallons. Have a functional drain valve or other

MOBIL STATION #92 (Continued) **U001574688**

method for the removal of liquid from the spill bucket/spill container. Be resistant to galvanic corrosion.

Violation Notes: Returned to compliance on 03/26/2019. OBSERVATION: THE DIESEL OVERSPILL BUCKET FAILED TO MAINTAIN LIQUID DURING THE TESTING PERIOD. REQUIREMENT: WITHIN 10 DAYS, REPAIR/REPLACE THE FAILED BUCKET USING LIKE-FOR-LIKE EQUIPMENT AND SUBMIT A COPY OF THE WORK ORDER WITH DOCUMENTATION OF A SUCCESSFUL RETEST UPON COMPLETION TO JKOOYMAN@SBCFIRE.ORG. FAILURE TO SUBMIT DOCUMENTATION WILL RESULT IN THE REQUIREMENT TO SCHEDULE A WITNESSED RE-CERTIFICATION. A PERMIT WILL NOT BE REQUIRED.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 04-30-2018
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description: Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes: Returned to compliance on 04/30/2018. OBSERVATION: 1) REGULAR UNLEADED STP SENSOR (VR 208) FAILED WHEN TESTED AND WAS DETERMINED TO BE NOT IN GOOD REPAIR. TECHNICIAN REPLACED THE SENSOR LIKE FOR LIKE, RE-TESTED, AND PASSED. CORRECTED. 2) UDC 1/2 RELAY WAS NOT IN GOOD REPAIR AND FAILED TO CUT POWER TO THE DISPENSER WHEN SENSOR (BEAUDREAUX 406) WAS TESTED. CORRECTED. RELAY WAS REPAIRED, SENSOR RETESTED, AND PASSED. 3) UDC 5/6 BEAUDREAUX 406 SENSOR FAILED TO CUT POWER TO THE DISPENSER. CORRECTED. SENSOR WAS REPLACED, RETESTED, AND PASSED. COMPLIANCE REQUIREMENT: ENSURE ALL MONITORING EQUIPMENT ARE IN GOOD REPAIR, PROGRAMMED PROPERLY, AND FUNCTIONING AS DESIGNED.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 03-09-2015
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: Failure to comply with one or more of the designated operator monthly inspection requirements: failed to inspect the monthly alarm history report; attach a copy of the alarm history; failed to inspect for the presence of liquid or debris in the spill container/spill bucket and under dispenser containment; failed to inspect the under dispenser containment to ensure that monitoring equipment is placed in the proper position; failure to inspect for liquid or debris in the containment sump where an alarm occurred or for which there is no record of a service visit; or failure to check that all testing and maintenance has been completed and documented.
Violation Notes: Returned to compliance on 07/06/2015. OBSERVATION. THE LAST MONTHLY DESIGNATED OPERATOR INSPECTION WAS DOCUMENTED 02/21/2014. COMPLIANCE REQUIREMENT: PERFORM MONTHLY DESIGNATED OPERATOR (D.O.) INSPECTION. SUBMIT A COPY OF A CURRENT D.O. INSPECTION.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

MOBIL STATION #92 (Continued) **U001574688**

Site ID:	145708
Site Name:	QUICK STOP #5
Violation Date:	06-27-2016
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the UST.
Violation Notes:	Returned to compliance on 09/20/2016. OBSERVATION: THERE WERE NO MAINTENANCE RECORDS AVAILABLE FOR ANY WORK CONDUCTED AT THIS FACILITY. DO REPORT NOTED VASQUEZ MAINTENANCE BEING PRESENT ON 9/15/2015 AND 7/18/2015 DUE TO ALARMS, BUT NO WORK ORDERS WERE PROVIDED. IN ADDITION OTHER ISSUES WITH WATER INTRUSION WAS NOTED ON THE DO REPORTS, BUT NO WORK ORDERS PROVIDED STATING WHAT WAS DONE TO CLEAR ALARMS AND WHO CLEARED THEM. COMPLIANCE REQUIREMENTS: PROVIDE ALL WORK ORDERS TO OUR DEPARTMENT. IF WORK ORDERS ARE NOT FOUND THEN PROVIDE A STATEMENT TO COMPLY, NOTING THAT RECORDS WILL BE FULLY MAINTAINED ON ALL WORK CONDUCTED. OWNER MUST SIGN AND DATE THIS STATEMENT ALONG WITH COMPANY THAT PERFORMED WORK. COMPLIANCE ACTIVITY -8/12/2016- ON 7/27/2016 THERE WAS A SITE VISIT MADE AND I SPOKE THE MANAGER, SAMIR SAID, VIA TELEPHONE. INFORMED HIM THAT A STATMENT TO COMPLY WAS NEEDED FROM THE OWNER OF THANKS REGARDING THE ISSUE WITH RECORDKEEPING AND WHAT WILL BE DONE TO RESOLVE THE VIOLATION. EGRIMES COMPLIANCE [Truncated]
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,

Site ID:	145708
Site Name:	QUICK STOP #5
Violation Date:	03-04-2020
Citation:	HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description:	Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes:	Returned to compliance on 03/18/2020. OBSERVATION: The tank page information submitted via CERS is not accurate based upon what was observed on-site. CORRECTIVE ACTION: Update the following information via CERS and re-submit all UST documents within 30 days: For your 87 tank, for overfill prevention, please check yes for fill tube shut off valve. For your diesel tank, for overfill prevention, please check no for fill tube shut off valve. For the used oil tank, for overfill prevention, please only check yes for exempt .
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,

Site ID:	145708
Site Name:	QUICK STOP #5
Violation Date:	06-27-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/02/2016. Failure to label hazardous waste containers (CCR 66262.34(f)(3)) OBSERVATIONS: SEVERAL DRUMS ON-SITE HAD INCOMPLETE LABELS OR JUST WRITING'S WITH MARKER SHOWING THE EPA ID AND YEAR OF PERCEIVED ACCUMULATION. COMPLIANCE REQUIREMENT: PROVIDE APPROVED HAZARDOUS WASTE LABELS FOR ALL DRUMS TO BE STORED ON-SITE. ENSURE ALL INFORMATION IS FILLED IN PRIOR TO PLACEMENT OF LABELS ON

MOBIL STATION #92 (Continued) **U001574688**

DRUMS. MAINTAIN LABELS TO ENSURE LEGIBILITY. COMPLIANCE ACTIVITY -7/27/2016- Made a site visit to facility due not receiving pictures needed to clear the violations. While there observed the violation to be corrected, took pictures (Manager informed), and was told that it corrected on 7/2/2016.Egrimes.

Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 01-06-2014
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 07/06/2015. THE BUSINESS PLAN HAS NOT BEEN SUBMITTED TO CERS. PLEASE SUBMIT ALL REQUIRED BUSINESS PLAN ELEMENTS TO CERS WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 01-06-2014
Citation: HSC 6.7 25292(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25292(e)
Violation Description: Failure to install line leak detector on pressurized piping system.
Violation Notes: Returned to compliance on 01/06/2014. THE MLLD ON THE 87 UST FAILED. IT WAS ADJUSTED AND RETESTED. IT THEN PASSED-VIOLATION CORRECTED.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 03-09-2015
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 03/09/2015. Failure to obtain an EPA ID Number (CCR 66262.12(a)) OBSERVATION: FACILITY'S EPA ID NUMBER WAS OBSERVED TO BE INACTIVE. COMPLIANCE MET ON SITE: OPERATOR FILLED OUT AND FAXED EPA APPLICATION.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 06-27-2016
Citation: 23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)
Violation Description: Failure of leak detection equipment to be located such that equipment is capable of detecting a leak at the earliest possible opportunity.

MOBIL STATION #92 (Continued) **U001574688**

Violation Notes: Returned to compliance on 06/27/2016. OBSERVATION: TECHNICIAN STATED THE SENSOR INSIDE THE 87 STP SUMP WAS PLACED IN THE MIDDLE OF THE SUMP AND NOT AT THE LOWEST POINT. COMPLIANCE REQUIREMENT: ENSURE ALL MONITORING SENSORS ARE PLACED IN A MANNER TO DETECT A LEAK AT THE EARLIEST POSSIBLE OPPORTUNITY AND MAINTAINED. TECHNICIAN PLACED SENSOR IN PROPER LOCATION DURING INSPECTION.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 03-26-2019
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description: Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.
Violation Notes: Returned to compliance on 10/25/2019. This site has single-walled vent lines and therefore must certify that both the ATG and ball floats are functional and properly located. Provide proof of notification and complete OPE inspection with supporting documentation to USTTestResults@sbcfire.org and TCongdon@sbcfire.org within 30 days or notify and schedule test within 30 days.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 03-09-2017
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description: Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes: Returned to compliance on 03/26/2019. OBSERVATION: THE BEAUDREAU 406

MOBIL STATION #92 (Continued) **U001574688**

SENSOR LOCATED IN UDC 5/6 FAILED TO POWER DOWN THE DISPENSER WHEN TESTED. REQUIREMENT: WITHIN 10 DAYS, REPAIR/REPLACE THE FAILED SENSOR USING LIKE-FOR LIKE EQUIPMENT. UPON COMPLETION, SIGN AND RETURN THE CERTIFICATE OF COMPLIANCE AND PROVIDE A COPY OF THE WORK ORDER DOCUMENTING THE REPAIR TO JKOOYMAN@SBCFIRE.ORG. FAILURE TO COMPLY WILL RESULT IN THE REQUIREMENT TO SCHEDULE A WITNESSED RETEST.

Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 06-27-2016
Citation: HSC 6.7 29291(b) - California Health and Safety Code, Chapter 6.7, Section(s) 29291(b)
Violation Description: Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance into the secondary containment.
Violation Notes: Returned to compliance on 06/27/2016. OBSERVATIONS: OVERFILL ALARM WAS NOT SOUNDING AND THE 87 STP SUMP SENSOR WAS INOPERABLE. COMPLIANCE REQUIREMENT: THE RELAY BOARD WAS REPLACED FOR OUTPUT 4 AND THE 87 STP SUMP SENSOR WAS REPLACED "LIKE FOR LIKE" . ALL ITEMS WERE WORKING AFTER REPLACEMENT.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 06-27-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 07/02/2016. OBSERVATIONS: INVENTORY IS MISSING MULTIPLE DRUMS STORED ON-SITE. INVENTORY LISTS ONE 55 GALLON DRUM FOR HAZ WASTE SOLIDS AND ONE 55 GALLON DRUM FOR HAZ WASTE LIQUIDS. THIS SITE HAS APPROXIMATELY 6 DRUMS WITH HAZARDOUS WASTE ON-SITE. DUE TO IMPROPER STORAGE AND NOT HAVING FULL ACCESS TO DRUMS, THE EXACT NUMBER OF DRUMS IS UNKNOWN. COMPLIANCE REQUIREMENT: DETERMINE THE CORRECT NUMBER OF DRUMS ON-SITE AND UPDATE THE INVENTORY. COMPLIANCE ACTIVITY -7/12/2016- SENT EMAIL TO PATRICK KANCHY, THE DO, TO REMIND HIM OF OPEN VIOLATIONS WITH THIS SITE AND HOW OUR OFFICE WILL ACCEPT A STATEMENT TO COMPLY ON VIOLATIONS REQUIRING MISSING WORK ORDERS. EGRIMES. COMPLIANCE ACTIVITY -7/27/2016- SITE VISIT MADE TO CONFIRM MULTIPLE DRUMS WERE REMOVED AND ONLY TWO WERE LEFT ON-SITE. ONE FOR LIQUID AND ONE FOR SOLIDS. INVENTORY IS CORRECT AS WELL. PICTURES TAKEN AS PROOF. EGRIMES
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 06-27-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5,

MOBIL STATION #92 (Continued) **U001574688**

Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/02/2016. Hazardous waste accumulation time exceeded (CCR 66262.34(a)) OBSERVATIONS: SEVERAL DRUMS WERE OBSERVED ON-SITE WITH MARKINGS INDICATING AN ACCUMULATION DATE FROM 2015. DRUMS WERE MORE THAN HALF FULL. COMPLIANCE REQUIREMENT: ENSURE HAZARDOUS WASTE CONTENTS ARE HAULED, BY AN APPROVED HAULER, WITHIN THE REQUIRED TIME FRAME. THE OWNER STATED HE WAS WAITING TO HAVE EVERYTHING HAULED AT ONE TIME, BUT HE WAS INFORMED THAT THIS WAS AN INCORRECT METHOD AND TO CONTACT AN APPROVED HAULER IMMEDIATELY TO HAVE ALL HAZARDOUS WASTE CONTENTS HAULED BY 7/1/2016. COMPLIANCE ACTIVITY -7/2/2016- THE DESIGNATED OPERATOR SENT AN EMAIL WITH THE MANIFEST. EGRIMES.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 04-30-2018
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program -General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 04/30/2018. Failure to install/maintain approved monitoring equipment for existing UST system(s) 23 CCR 2635(b)(1)(C)) OBSERVATION: WASTE OIL SUMP SENSOR (VR 208) WAS OBSERVED SITTING ON ITS SIDE AND ELEVATED ABOUT 2-3 INCHES OFF THE SUMP SURFACE. CORRECTED. SENSOR WAS PLACED AT THE LOWEST POINT FOR LEAK DETECTION WITHIN THE WASTE OIL SUMP BY END OF THE UNDERGROUND STORAGE TANK MONITORING CERTIFICATION. REMOVING AND/OR RELOCATING OF THE SENSOR IS CONSIDERED TAMPERING. ADMINISTRATIVE OR ENFORCEMENT ACTION MAYBE TAKEN BY THIS DIVISION. COMPLIANCE REQUIREMENT: MAINTAIN AND ENSURE THAT ALL MONITORING EQUIPMENT ARE WORKING PROPERLY AND LOCATED TO DETECT A LEAK AT THE EARLIEST POSSIBLE OPPORTUNITY.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 03-26-2019
Citation: 23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description: Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes: Returned to compliance on 03/26/2019. BEI stand-alone sensor in UDC 3/4 failed to shut down dispenser when leak simulated. Replaced. Retested same day.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 03-09-2015
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code,

MOBIL STATION #92 (Continued) **U001574688**

Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 07/06/2015. OBSERVATION: FACILITY HAS NOT SUBMITTED THE REQUIRED UST DOCUMENTATION TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) COMPLIANCE REQUIREMENT: SUBMIT UST DOCUMENTATION TO CERS WITHIN 30 DAYS. SIGN DATE AND SUBMIT THE CERTIFICATE OF COMPLIANCE TO THIS DEPARTMENT INDICATING THE DATE OF CERS SUBMITTAL.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 01-06-2014
Citation: 23 CCR 16 2637 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637
Violation Description: Failure to comply with one or more of the following: conduct secondary containment testing, within six months of installation and every 36 months thereafter, conducted in accordance with proper practices, protocols, or test methods.
Violation Notes: Returned to compliance on 07/06/2015. DEPARTMENT RECORDS INDICATE THAT THE LAST COMPLETE SECONDARY CONTAINMENT TESTING (EVERY 3 YEARS) WAS DONE ON 9/17/09. PLEASE HIRE A CERTIFIED UST CONTRACTOR TO PERFORM THIS TESTING WITHIN 30 DAYS. NOTIFY THE COUNTY FIRE DEPARTMENT AT LEAST ONE WEEK PROIOR TO PERFORMING THE TESTING AND SUBMIT THE RESULTS OF THE TESTING WITHIN 30 DAYS OF THE TEST DATE.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 04-30-2018
Citation: 23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)
Violation Description: Failure of leak detection equipment to be located such that equipment is capable of detecting a leak at the earliest possible opportunity.
Violation Notes: Returned to compliance on 04/30/2018. OBSERVATION: WASTE OIL SUMP SENSOR (VR 208) WAS OBSERVED SITTING ON ITS SIDE AND ELEVATED ABOUT 2-3 INCHES OFF THE SUMP SURFACE. CORRECTED. SENSOR WAS PLACED AT THE LOWEST POINT FOR LEAK DETECTION WITHIN THE WASTE OIL SUMP BY END OF THE UNDERGROUND STORAGE TANK MONITORING CERTIFICATION. REMOVING AND/OR RELOCATING OF THE SENSOR IS CONSIDERED TAMPERING. ADMINISTRATIVE OR ENFORCEMENT ACTION MAYBE TAKEN BY THIS DIVISION. COMPLIANCE REQUIREMENT: MAINTAIN AND ENSURE THAT ALL MONITORING EQUIPMENT ARE WORKING PROPERLY AND LOCATED TO DETECT A LEAK AT THE EARLIEST POSSIBLE OPPORTUNITY.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 03-09-2015
Citation: Un-Specified

MOBIL STATION #92 (Continued) **U001574688**

Violation Description:	UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes:	Returned to compliance on 07/06/2015. Failure to submit a signed Designated UST Operator Statement (23 CCR 2715(a)) OBSERVATION: FACILITY HAS NOT SUBMITTED THE REQUIRED UST DOCUMENTATION TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) COMPLIANCE REQUIREMENT: SUBMIT UST DOCUMENTATION TO CERS WITHIN 30 DAYS. SIGN DATE AND SUBMIT THE CERTIFICATE OF COMPLIANCE TO THIS DEPARTMENT INDICATING THE DATE OF CERS SUBMITTAL.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	145708
Site Name:	QUICK STOP #5
Violation Date:	01-06-2014
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 07/06/2015. EVIDENCE OF FINANCIAL RESPONSIBILITY HAS NOT BEEN SUBMITTED TO CERS. PLEASE SUBMIT THIS DOCUMENT TO CERS WITHIN 30 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	145708
Site Name:	QUICK STOP #5
Violation Date:	06-09-2016
Citation:	23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description:	Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been properly trained.
Violation Notes:	Returned to compliance on 09/20/2016. VIOLATION: Violations noted had no no follow-up work orders or paperwork demonstrating that the issues were abated. Several reports noted liquid intrusion and lids to spill buckets missing for two months. COMPLIANCE REQUIREMENT: Provide documentation on what was done to abate these issues. If there is no documentation found, then a statement to comply letter must be written, ink signed, and sent to our department. COMPLIANCE ACTIVITY -8/12/2016- STATEMENT TO COMPLY LETTER WAS REQUESTED AGAIN ON 7/27/2016, DURING MY SITE VISIT. SPOKE WITH THE MANAGER, SAMIR SAID VIA TELEPHONE. EGRIMES COMPLIANCE ACTIVITY-9/16/2016- EMAILED SAMIR SAID AND PATRICK KANCHY INFORMING THEM OF THE OUTSTANDING VIOLATIONS. GAVE AN EXTENSION UNTIL 9/30/2016 TO ACHIEVE COMPLIANCE. INFORMED THEM THAT A 7-DAY NOV WOULD BE ISSUED IF THEY DID NOT COMPLY BY THE EXTENSION DEADLINE.EGRIMES. COMPLIANCE ACTIVITY-9/20/2016- EMAIL SENT

MOBIL STATION #92 (Continued) **U001574688**

WITH REQUESTED SIGNED STATEMENTS. EGRIMES.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 03-04-2020
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes: Returned to compliance on 03/17/2020. OBSERVATION: Owner/Operator is a small quantity generator and failed to send hazardous waste (Used Oil) off-site for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles). CORRECTIVE ACTION: Dispose of hazardous waste (Used Oil) that has been stored over the applicable time limit. Provide documentation that the violation has been corrected to this agency within 30 days along with a signed Certificate of Compliance.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 09-12-2019
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description: Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering

MOBIL STATION #92 (Continued) **U001574688**

	standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.
Violation Notes:	Returned to compliance on 09/19/2019. REGULAR PRODUCT OVERFILL PREVENTION TEST WITNESSED FAILED DUE TO MISSING BALL FLOAT IN RESTRICTOR DEVICE. IMMEDIATELY PROVIDE APPROVED OVERFILL DEVICE FOR THE REGULAR PRODUCT UST WITH THE SUBMISSION OF AS-BUILT PLANS TO THIS DEPARTMENT WITHIN 7 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	145708
Site Name:	QUICK STOP #5
Violation Date:	01-06-2014
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description:	UST Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 07/06/2015. Failure to have a written monitoring program with monitoring procedures and response plan. (CCR 2632(d)) THE MONITORING PLAN AND RESPONSE PLAN HAVE NOT BEEN SUBMITTED TO CERS. PLEASE SUBMIT THESE DOCUMENTS TO CERS WITHIN 30 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	145708
Site Name:	QUICK STOP #5
Violation Date:	04-30-2018
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 03/26/2019. OBSERVATION: OBSERVED (2) 55-GALLON METAL DRUMS OF LIQUID WASTE GENERATED FROM FUEL STATION OPERATION MISSING PROPER HAZARDOUS WASTE LABELS. COMPLIANCE REQUIREMENT: PROPERLY LABEL ALL HAZARDOUS WASTE CONTAINERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	145708
Site Name:	QUICK STOP #5
Violation Date:	04-30-2018
Citation:	23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i)
Violation Description:	Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).
Violation Notes:	Returned to compliance on 04/30/2018. OBSERVATION: ANNUAL UNDERGROUND STORAGE TANK SYSTEM (UST) CERTIFICATION IS PASSED DUE. UST MONITORING CERTIFICATION WAS LAST CONDUCTED ON 3/9/2017. CORRECTED TODAY. COMPLIANCE REQUIREMENT: UNDERGROUND STORAGE TANK CERTIFICATION MUST BE

MOBIL STATION #92 (Continued) **U001574688**

CONDUCTED ANNUALLY.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 03-09-2017
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 10/12/2017. Failure to have a written monitoring program with monitoring procedures and response plan (CHSC 25286(a)) OBSERVATION: THE UST MONITORING PLANS MUST BE CORRECTED PRIOR TO BEING ACCEPTED INTO THE SYSTEM. CORRECT THE FOLLOWING: 1.) CHECK "YES" TO THE QUESTION IDENTIFYING THAT A LEAK ALARM WILL TRIGGER AUTOMATIC PUMP SHUTDOWN-ALL TANKS. 2.) CHECK "YES" TO THE QUESTION IDENTIFYING THAT FAILURE/DISCONNECT TRIGGERS AUTOMATIC PUMP SHUTDOWN-ALL TANKS. 3.) THE MECHANICAL LINE LEAK DETECTOR FOR TANK 1 IS A VMI (NOT RED JACKET). 4.) THE STAND ALONE BEAUDREAU SENSORS WILL ONLY "STOP THE FLOW OF PRODUCT AT THE DISPENSER"; CHECK "NO" TO THE REST-ALL TANKS. 5.) UDC CONSTRUCTION IS SINGLE-WALLED (CURRENTLY LEFT BLANK). REQUIREMENT: WITHIN 30 DAYS, UPDATE THE MONITORING PLANS TO INCLUDE THE ABOVE NOTED INFORMATION AND SUBMIT TO CERS. UPON COMPLETION, SIGN AND RETURN THE CERTIFICATE OF COMPLIANCE TO JKOOYMAN@SBCFIRE.ORG TO CLEAR THE VIOLATION.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 01-06-2014
Citation: HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291
Violation Description: Failure to maintain under-dispenser containment, sumps, and/or other secondary containment in good condition and/or free of debris/liquid.
Violation Notes: Returned to compliance on 01/06/2014. THERE IS STANDING LIQUID IN THE 87 TURBINE SUMP COLLAR. THE LIQUID WAS REMOVED TODAY-VIOLATION CORRECTED.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 06-27-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/02/2016. Failure to manage hazardous waste lawfully (CHSC 25154) OBSERVATIONS: OBSERVED ALL DRUMS TO BE IMPROPERLY MANAGED IN STORAGE AREA. LIMITED ACCESS WAS AVAILABLE TO ALL DRUMS DUE TO VARIOUS BOXES AND ELECTRONICS STORED ON TOP OF DRUMS. THE EXACT NUMBER OF DRUMS IN THE STORAGE SHED IS UNKNOWN DUE TO

MOBIL STATION #92 (Continued) **U001574688**

LIMITED ACCESS, BUT A VISUAL OF 6 WAS CONFIRMED. COMPLIANCE REQUIREMENT: ALWAYS PROVIDE FULL ACCESS TO HAZARDOUS WASTE DRUMS AND DO NOT STORE OTHER ITEMS ON TOP OF THEM OR NEAR THEM. REMOVE ITEMS BEING STORED ON TOP OF DRUMS IMMEDIATELY. KEEP SURROUNDING AREA CLEAN AND MAINTAINED. ONCE COMPLETED PROVIDE PICTURES SHOWING STORAGE AREA TO OUR DEPARTMENT. COMPLIANCE ACTIVITY -7/27/2016- SITE VISIT MADE TO OBSERVE THAT THE DRUMS WERE BEING PROPERLY MANAGED AND ITEMS WERE NO LONGER STORED ON TOP OR AROUND THEM. EXCESS DRUMS WERE ALSO REMOVED. MECHANIC INFORMED ME THAT THIS WAS DONE ON 7/2/2016. EGRIMES

Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 06-27-2016
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description: Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes: Returned to compliance on 03/09/2017. OBSERVATION: THERE IS NO SENSOR MONITORING THE SUMP OF THE WASTE OIL TANK. ONLY AN ANNULAR SENSOR. COMPLIANCE REQUIREMENT: APPLY FOR A PERMIT WITH OUR DEPARTMENT TO HAVE A MONITORING SENSOR INSTALLED IN THIS SUMP. SCHEDULE TO HAVE A WITNESSED TESTING OF THIS SENSOR TO ENSURE PROPER PROGRAMMING AND FUNCTIONALITY. COMPLIANCE ACTIVITY -8/12/2016-THERE HAS BEEN PREVIOUS CORRESPONDENCE WITH THE SITES DO, PATRICK KANCHY, REGARDING THE MISSING SUMP SENSOR. OWNER HAD THE SUMP OPENED AGAIN AND TOOK PICTURES TO SHOW THE INSIDE. IT WAS CONFIRMED AGAIN THAT THERE IS NO SUMP SENSOR, ONLY AN ANNULAR SENSOR. THE DO INFORMED ME ON 8/11/2016, THAT HE WILL TALK WITH THE OWNER ABOUT THE MISSING SENSOR. ON 8/12/2016 AN EMAIL WAS SENT TO REMIND THE DO THAT A PERMIT MUST BE OBTAINED FROM OUR DEPARTMENT PRIOR TO WORK BEING CONDUCTED. EGRIMES COMPLIANCE ACTIVITY-9/16/2016- EMAILED SAMIR SAID AND PATRICK KANCHY INFORMING THEM OF THE OUTSTANDING VIOLATIONS. GAVE AN EXTENSION UNTIL TO [Truncated]
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 06-09-2016
Citation: 23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i)
Violation Description: Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).
Violation Notes: Returned to compliance on 06/27/2016. VIOLATION: Facility was due for the certification on 3/9/2016. A letter was sent by our department to inform the owner of non-compliance. As of 6/9/2016, there has been no certification conducted. Therefore, a 7-day notice has been issued today. COMPLIANCE REQUIREMENT: Facility must contact this department by 6/16/2016 to schedule for annual certification to be witnessed by an inspector. Failure to do so will result in Red Tag Enforcement. COMPLIANCE ACTIVITY - 6/10/16 - CONTACTED DESIGNATED OPERATOR PATICK

MOBIL STATION #92 (Continued) **U001574688**

KANCHY. KANCHY STATED HE WILL COORDINATE WITH OWNER TO SCHEDULE AN ANNUAL MONITORING CERTIFICATION. EGRIMES. COMPLIANCE ACTIVITY - 6/27/2016 - ANNUAL MONITORING CERTIFICATION WAS CONDUCTED ON THIS DAY. EGRIMES .

Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 06-27-2016
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 07/18/2016. Failure to have a written monitoring program with monitoring procedures and response plan (CHSC 25286(a)) OBSERVATIONS: (1) MONITORING PLOT PLAN (DIAGRAM) IS MISSING LEGEND EXPLAINING ALL INDICATORS. PLOT PLAN SHOWS ANNULARS FOR WASTE OIL AND 87 TANK BEING ON THE OUTSIDE, WHEN THE ANNULARS ARE ON THE INSIDE OF THE SUMPS. PLOT PLAN SHOWS WASTE OIL TANK HAVING A SUMP SENSOR, WHEN IT ONLY HAS AN ANNULAR SENSOR. (2) THE MONITORING PLAN FOR ALL TANKS (87/91/DSL) HAVE UDC SENSORS AS "208", WHEN THEY ARE ACTUALLY BEAUDREAU-406 SENSORS IN ALL UDC'S. COMPLIANCE REQUIREMENTS: UPDATE THE CHANGES AS REFERENCED ABOVE AND SUBMIT IN CERS. COMPLIANCE ACTIVITY-8/12/2016- CERS WAS REVIEWED AND OBSERVED THE CORRECT LISTING FOR THE UDC SENSORS. THE UST SITE PLAN HAS A LEGEND/KEY. THE ANNULARS FOR THE 87 AND WASTE OIL TANK ARE STILL NOT PROPERLY PLACED AND THE WASTE OIL TANK STILL SHOWS AS HAVING A SUMP SENSOR, WHEN IT DOESN'T. DUE TO THE D.O. INFORMING ME THAT HE WILL BE WORKING THE [Truncated]
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 03-09-2017
Citation: 23 CCR 6.7 25284, 25286 - California Code of Regulations, Title 23, Chapter 6.7, Section(s) 25284, 25286
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 10/12/2017. OBSERVATION: THE UNDERGROUND STORAGE TANK INFORMATION SUBMITTED TO CERS (DATED 2/28/17) CANNOT BE ACCEPTED DUE TO SEVERAL NOTED DEFICIENCIES. CORRECT THE FOLLOWING: 1.) UPDATE THE TANK CONSTRUCTION SECTION TO IDENTIFY THE SECONDARY CONTAINMENT AS FIBERGLASS CLADDED STEEL (NOT JACKETED)-ALL TANKS 2.) TANK 1 IS A SINGLE COMPARTMENT (STAND ALONE) TANK 3.) TANKS 2A (91) AND 2B (DIESEL) ARE PART OF A COMPARTMENTED TANK (CHANGE FOR BOTH TANKS) 4.) THE PIPING AND TURBINE SUMPS ARE SINGLE-WALLED (CURRENTLY IDENTIFIED AS "NONE") 5.) THE VENT AND VAPOR RECOVERY PIPING IS FIBERGLASS (SINGLE-WALLED); NOT STEEL 6.) THE RISER PIPE SECONDARY CONTAINMENT IS FIBERGLASS (THE SUMPS SERVE AS CONTAINMENT) 7.) THE UDC'S ARE SINGLE-WALLED; NOT DOUBLE-WALLED 8.) REMOVE THE IDENTIFICATION OF VAPOR RECOVERY PIPING FOR THE DIESEL TANK REQUIREMENT: WITHIN 30 DAYS, UPDATE THE CERS SUBMITTAL TO REFLECT THE ABOVE NOTED CHANGES AND RESUBMIT. UPON COMPLETION, SIGN AND RETURN THE

MOBIL STATION #92 (Continued) **U001574688**

	CERTIFICATE OF [Truncated]
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	145708
Site Name:	QUICK STOP #5
Violation Date:	01-06-2014
Citation:	HSC 6.7 29291(b) - California Health and Safety Code, Chapter 6.7, Section(s) 29291(b)
Violation Description:	Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance stored in the primary containment into the secondary containment.
Violation Notes:	Returned to compliance on 06/19/2015. THERE IS LIQUID (DIESEL FUEL) I N UDC 1/2. THE DIESEL PIPING IS ALSO DARK WITH LIQUID. REQUIREMENT: HIRE A UST CONTRACTOR TO FIND THE REASON FOR THE DIESEL FUEL LEAK AND REPAIR THE EQUIPMENT WITHIN 30 DAYS. PLANS MAY BE REQUIRED FOR SOME REPAIRS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	145708
Site Name:	QUICK STOP #5
Violation Date:	06-27-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 07/19/2016. Failure to retain Hazardous Waste Manifests for at least 3 years (CCR 66262.40(a)) OBSERVATIONS: THERE WERE NO MANIFESTS FROM THE LAST THREE YEARS AVAILABLE FOR REVIEW. COMPLIANCE REQUIREMENTS: CONTACT HAULER(S) AND OBTAIN COPIES OF ALL MANIFESTS FROM THE LAST THREE YEARS. IF MANIFESTS WERE GIVEN TO AN ACCOUNTANT THEN HAVE COPIES MADE AND MAINTAIN ON-SITE AT ALL TIMES. SEND COPIES TO OUR DEPARTMENT FOR REVIEW. COMPLIANCE ACTIVITY - 7/19/2016- EMAIL SENT FROM THEIR DO PATRICK KANCHY WITH THE MANIFEST ATTACHED FOR THE WASTE HAUL. EGRIMES.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	145708
Site Name:	QUICK STOP #5
Violation Date:	03-04-2020
Citation:	HSC 6.7 25299(a)(9) - California Health and Safety Code, Chapter 6.7, Section(s) 25299(a)(9)
Violation Description:	Leak detection equipment disabled or tampered with in a manner that would prevent the monitoring system from detecting and/or alerting the owner/operator of a leak.
Violation Notes:	Returned to compliance on 03/18/2020. OBSERVATION: The 208 sump sensors within the Diesel turbine sump and the 91 turbine sumps were both raised and not positioned within the sump to detect a release at the earliest opportunity. CORRECTIVE ACTON: Submit a signed statement to this agency stating that the tank owner/operator understands that sensors must not be moved or raised from the lowest point in the sump

MOBIL STATION #92 (Continued) **U001574688**

and that it is illegal to tamper with UST monitoring equipment. This signed statement must be submitted to this agency within 30 days. Formal enforcement may occur.

Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 06-27-2016
Citation: HSC 6.7 25290.1(c)(3), 25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3), 25290.2(c)(3)
Violation Description: Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003 and before July 1, 2004, or on or after July 1, 2004.
Violation Notes: Returned to compliance on 09/20/2016. OBSERVATIONS: WATER WAS INSIDE THE 87/91/DSL STP SUMPS. TECHNICIAN STATED APPROXIMATELY 30 GALLONS OF WATER WAS REMOVED IN TOTAL. COMPLIANCE REQUIREMENT: ENSURE SUMPS ARE PROPERLY CONSTRUCTED TO PREVENT LIQUID INTRUSION. PROVIDE PROOF THAT SEALS AND GASKETS ARE IN GOOD CONDITION TO PREVENT WATER INTRUSION AND IF MATS OR ADDITIONAL SEAL IS NEEDED. COMPLIANCE ACTIVITY -8/12/2016- ON 7/28/2016 I SENT AN EMAIL TO THE DO, PATRICK KANCHY, TO HAVE A CERTIFIED TECHNICIAN INSPECT THE SUMPS TO DETERMINE WHAT IS NEEDED TO HELP PREVENT WATER INTRUSION. EGRIMES COMPLIANCE ACTIVITY-9/16/2016- EMAIL SENT ON 9/15 WHICH HAD STATEMENT FOR ALL GASKETS ORDERED. EMAIL STATED THAT THE GASKETS WERE INSTALLED BUT THEY ARE WAITING FOR THE BOLTS. EGRIMES. COMPLIANCE ACTIVITY-9/16/2016- EMAILED SAMIR SAID AND PATRICK KANCHY INFORMING THEM OF THE OUTSTANDING VIOLATIONS. GAVE AN EXTENSION UNTIL 9/30/2016 TO ACHIEVE COMPLIANCE. INFORMED THEM THAT A 7-DAY NOV WOULD BE ISSUED IF THEY DID NOT [Truncated]
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 04-30-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 03/26/2019. OBSERVATION: OBSERVED (2) 55-GALLON DRUMS OF LIQUID HAZARDOUS WASTE GENERATED FROM FUEL STATION OPERATION. COMPLIANCE REQUIREMENT: UPDATE INVENTORY TO REFLECT CURRENT AMOUNT.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 03-04-2020
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to have an approved UST Monitoring Plan.
Violation Notes: Returned to compliance on 03/18/2020. OBSERVATION: The monitoring plan

MOBIL STATION #92 (Continued) **U001574688**

information submitted via CERS is not accurate based upon what was observed on-site. CORRECTIVE ACTION: Update the following information via CERS and re-submit all UST documents within 30 days: For your diesel tank, for mechanical line leak detector, please check yes for mechanical line leak detector.

Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 03-09-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 06/19/2015. Hazardous waste accumulation time exceeded (CCR 66262.34(a)) OBSERVATION: (6) 55-GALLON DRUMS OF UST RELATED HAZARDOUS WASTE WERE OBSERVED, WITH NO ACCUMULATION TIME. COMPLIANCE REQUIREMENT: SUBMIT A COPY OF THE HAZARDOUS WASTE MANIFEST, SHOWING THE PROPER DISPOSAL OF THE SIX 55-GALLON DRUMS OF HAZARDOUS WASTE. INSPECTOR WAS ONSITE 6/19/15.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 03-09-2015
Citation: HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description: Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 07/06/2015. OBSERVATION: FACILITY HAS NOT SUBMITTED THE REQUIRED BUSINESS PLAN DOCUMENTATION TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) COMPLIANCE REQUIREMENT: SUBMIT THE REQUIRED BUSINESS PLAN DOCUMENTATION TO CERS WITHIN 30 DAYS. SIGN DATE AND SUBMIT THE CERTIFICATE OF COMPLIANCE TO THIS DEPARTMENT INDICATING THE DATE OF CERS SUBMITTAL.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 04-30-2018
Citation: 23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description: Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance

MOBIL STATION #92 (Continued) **U001574688**

has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(f)(2).

Violation Notes: Returned to compliance on 03/26/2019. OBSERVATION: DESIGNATED OPERATOR MONTHLY INSPECTION REPORTS AND ALARM HISTORY RECORDED ALARMS THAT OCCURRED ON MARCH 2018 AND JUNE 2018. WORK ORDERS WERE NOT AVAILABLE FOR REVIEW OR PROVIDED BY END OF INSPECTION DESCRIBING WHAT CAUSED THE ALARMS, WHO CLEARED THE ALARMS, AND HOW AND WHEN THE ALARMS WERE CLEARED. COMPLIANCE REQUIREMENT: SUBMIT COPIES OF THE WORK ORDERS TO THIS DIVISION FOR THE ALARMS IDENTIFIED AND SUBMIT A STATEMENT THAT TESTING AND MAINTENANCE RECORDS WILL BE MAINTAINED ON SITE.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 04-30-2018
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 03/26/2019. OBSERVATION: EPA ID NUMBER CAL912633553 WAS NOT ACTIVE. COMPLIANCE REQUIREMENT: OBTAIN A VALID PERMANENT EPA ID NUMBER BY FORM 1358 TO DEPARTMENT OF TOXIC AND SUBSTANCE CONTROL.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 01-06-2014
Citation: 23 CCR 16 2638 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638
Violation Description: Failure to test leak detection equipment as required every 12 months (VPH, sensor, LLD, ATG, etc.) and/or submit monitoring system certification to the CUPA within 30 days of completion of the test
Violation Notes: Returned to compliance on 01/06/2014. THE LAST MONITORING CERTIFICATION WAS DONE ON 7/25/12. UST SYSTEMS MUST BE CERTIFIED ANNUALLY. PLEASE PERFORM THE NEXT MONITORING CERTIFICATION WITHIN ONE YEAR.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 03-09-2015
Citation: 23 CCR 16 2638 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638
Violation Description: Failure to test leak detection equipment as required every 12 months (VPH, sensor, LLD, ATG, etc.) and/or submit monitoring system certification to the CUPA within 30 days of completion of the test
Violation Notes: Returned to compliance on 06/19/2015. OBSERVATION :(4) The liquid sensors located in UDC dispensers 1/2 and 7/8 failed, when tested. COMPLIANCE REQUIREMENT: REPAIR/ REPLACE LIQUID SENSORS LOCATED IN UDC

MOBIL STATION #92 (Continued) **U001574688**

DISPENSERS 1/2 AND 7/8. CONTACT THIS OFFICE FOR A WITNESS INSPECTION/ TEST OF THE REPAIRED UDCS 1/2 & 7/8.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 03-09-2015
Citation: 23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)
Violation Description: Failure of sensor to be located in the proper position/location.
Violation Notes: Returned to compliance on 03/09/2015. OBSERVATION: LIQUID SENSORS WERE OBSERVED TO BE LIFTED IN THE FOLLOWING SUMPS- DIESEL FILL, DIESEL STP, 87 FILL, 87 STP AND 91 STP. COMPLIANCE MET ON SITE: TECHNICIAN PLACED LIQUID SENSORS AT THE LOWEST POINT.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 01-06-2014
Citation: HSC 6.95 25503.5(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25503.5(a)
Violation Description: Owner/Operator failed to establish and implement a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 07/06/2015. THE BUSINESS PLAN HAS NOT BEEN SUBMITTED TO CERS. PLEASE SUBMIT ALL REQUIRED BUSINESS PLAN ELEMENTS TO CERS WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 04-30-2018
Citation: HSC 6.7 25290.1(c)(3),25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3),25290.2(c)(3)
Violation Description: Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.
Violation Notes: Returned to compliance on 04/30/2018. OBSERVATION: OBSERVED LIQUID AT THE FOLLOWING: 1) DIESEL STP SUMP 2) WASTE OIL SUMP 3) REGULAR UNLEADED SPILL BUCKET COMPLIANCE REQUIREMENT: CORRECTED. LIQUID WAS REMOVED. ENSURE ALL SECONDARY CONTAINMENT IS CONSTRUCTED, OPERATED, AND MAINTAINED IN A MANNER TO PREVENT INTRUSION OF ANY LIQUID INTO THE SYSTEM.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 03-09-2015
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local

MOBIL STATION #92 (Continued) **U001574688**

	Ordinance only
Violation Notes:	Returned to compliance on 07/06/2015. Failure to have a written monitoring program with monitoring procedures and response plan. (CCR 2632(d)) OBSERVATION: FACILITY HAS NOT SUBMITTED THE REQUIRED UST DOCUMENTATION TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) COMPLIANCE REQUIREMENT: SUBMIT UST DOCUMENTATION TO CERS WITHIN 30 DAYS. SIGN DATE AND SUBMIT THE CERTIFICATE OF COMPLIANCE TO THIS DEPARTMENT INDICATING THE DATE OF CERS SUBMITTAL.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	145708
Site Name:	QUICK STOP #5
Violation Date:	03-09-2017
Citation:	HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description:	Failure to operate the UST system to prevent unauthorized releases including leaks, spills, and/or overfills.
Violation Notes:	Returned to compliance on 08/30/2017. SEE DESCRIPTION LISTED UNDER VIOLATION #329 FOR DETAILS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	145708
Site Name:	QUICK STOP #5
Violation Date:	03-09-2015
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 03/09/2015. Failure to label hazardous waste containers (CCR 66262.34(f)(3)) OBSERVATION: (6) 55-GALLON DRUMS OF UST SUMP/ TESTING WATER OBSERVED UNMARKED. COMPLIANCE MET ON SITE: OPERATOR PROPERLY LABELED ALL SIX 55-GALLON DRUMS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	145708
Site Name:	QUICK STOP #5
Violation Date:	04-30-2018
Citation:	HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description:	Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes:	Returned to compliance on 03/26/2019. OBSERVATION: OBSERVED (2) 55-GALLON METAL DRUMS OF LIQUID HAZARDOUS WASTE GENERATED FROM FUEL STATION OPERATION MISSING PROPER HAZARDOUS WASTE LABELS. STORAGE ACCUMULATION TIME HAS BEEN EXCEEDED. COMPLIANCE REQUIREMENT: REMOVE

MOBIL STATION #92 (Continued) **U001574688**

AND PROPERLY DISPOSE LIQUID HAZARDOUS WASTE. A COPY OF THE HAZARDOUS WASTE MANIFEST MUST BE PROVIDED TO THIS DIVISION.

Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 06-09-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 07/18/2016. VIOLATIONS: (1) Inventory element lists incorrect tank capacities for the 91 and diesel tanks; site map does not have all required information. (2) The operating permit lists a separate owner and operator, when Ali Yasin is both owner and operator. (3) The monitoring site plan does not indicate annulars spaces on tanks; the waste oil tank is indicated by a circle only with no annular or sump; overfill alarm is showing as needs to be installed, when it is already installed. (4) The tank monitoring plans list steel primary piping, when the piping is Environ and not steel (according to previous testing); Capacity is incorrect on 91/dsl tanks; Diesel is marked as not having a flapper valve when it does; Diesel MLLD is FX1DV not FX1V; Waste oil sump sensor is not listed; 87 MLLD is LD2000, not LD200. COMPLIANCE REQUIREMENTS: (1) Correct 91 and diesel capacities are both 10,000 gallons. Utilize link provided in narrative to provide guidance on creating the site map. (2) Update [Truncated]
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 06-27-2016
Citation: 23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description: Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been properly trained.
Violation Notes: Returned to compliance on 09/20/2016. OBSERVATIONS: DO REPORT STATED ISSUES WITH WATER INTRUSION AND WORK BEING DONE BY VASQUEZ MAINTENANCE, BUT DID NOT OBTAIN ANY DOCUMENTATION ON HOW ALARMS WERE CLEARED AND WHY WORK WAS CONDUCTED. COMPLIANCE REQUIREMENT: DO IS ALSO RESPONSIBLE IN ENSURING UST ISSUES ARE PROPERLY HANDLED AND ABATED. DETERMINE THE CAUSE FOR THE WORK CONDUCTED AND HOW ALARMS WERE CLEARED. IF NO DOCUMENTATION IS FOUND, THEN THE DO MUST SUBMIT A

MOBIL STATION #92 (Continued) **U001574688**

STATEMENT TO COMPLY, NOTING THAT THEY WILL ENSURE UST MATTERS ARE PROPERLY INVESTIGATED AND ABATED TO ACHIEVE COMPLIANCE. COMPLIANCE ACTIVITY -8/12/2016- REQUESTED A STATEMENT TO COMPLY FROM THE OWNER DURING MY SITE VISIT ON 7/27/2016. EGRIMES COMPLIANCE ACTIVITY-9/16/2016- EMAILED SAMIR SAID AND PATRICK KANCHY INFORMING THEM OF THE OUTSTANDING VIOLATIONS. GAVE AN EXTENSION UNTIL 9/30/2016 TO ACHIEVE COMPLIANCE. INFORMED THEM THAT A 7-DAY NOV WOULD BE ISSUED IF THEY DID NOT COMPLY BY THE EXTENSION DEADLINE.EGRIMES. COMPLIANCE ACTIVITY-9/20/2016- [Truncated]

Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 01-06-2014
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 07/06/2015. Failure to submit a signed Designated UST Operator Statement (23 CCR 2715(a)) THE DESIGNATED OPERATOR STATEMENT HAS NOT BEEN SUBMITTED TO CERS. PLEASE SUBMIT THIS DOCUMENT TO CERS WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 03-26-2019
Citation: 23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)
Violation Description: Failure of leak detection equipment to be located such that equipment is capable of detecting a leak at the earliest possible opportunity.
Violation Notes: Returned to compliance on 10/25/2019. BEI standalone sensors in UDCs shall be affixed to minimize tendency to fall over preventing ability to detect leak at earliest opportunity. Comply within 30 days. Provide work order or photo as documentation. OBSERVED CORRECTED DURING OVERFILL PERMIT FINAL INSPECTION. 10/25/2019 ASAGUAN
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Violation Date: 01-06-2014
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: Failure to comply with one or more of the designated operator monthly inspection requirements: failed to inspect the monthly alarm history report; attach a copy of the alarm history; failed to inspect for the presence of liquid or debris in the spill container/spill bucket and under dispenser containment; failed to inspect the under dispenser containment to ensure that monitoring equipment is placed in the proper position; failure to inspect for liquid or debris in the containment sump where an alarm occurred or for which there is no record of a service visit; or failure to check that all testing and

MOBIL STATION #92 (Continued) **U001574688**

maintenance has been completed and documented.
Violation Notes: Returned to compliance on 07/06/2015. THE DESIGNATED OPERATOR MONTHLY INSPECTION CHECKLISTS FOR 10/13,11/13 AND 12/13 COULD NOT BE LOCATED. PLEASE LOCATE THESE CHECKLISTS AND KEEP ON SITE WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-04-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-04-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-09-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: QUICK STOP#5- UST MONITORING CERTIFICATION
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-09-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: UST HANDLER INSPECTION AND CERS REVIEW
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 03-09-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST FIELD INSPECTION-SECONDARY CONTAINMENT TESTING (PARTIALLY WITNESSED)
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-09-2017

MOBIL STATION #92 (Continued) **U001574688**

Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: UST FIELD INSPECTION-ANNUAL MONITORING SYSTEM CERTIFICATION (4 TANKS) W/KEITH HENDERSON NOTE: THE TRIENNIAL SECONDARY CONTAINMENT TEST (PAST DUE) WAS ALSO COMPLETED TODAY
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-30-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ANNUAL UST INSPECTION WITH CERS REVIEW
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-09-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Annual UST Inspection
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-06-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: QUIK STOP # 5 22087 BARTON RD GRAND TERRACE
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-04-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-16-2022
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HAZMAT HANDLER UST ONLY.
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-16-2019
Violations Found: No

MOBIL STATION #92 (Continued) **U001574688**

Eval Type: Other, not routine, done by local agency
Eval Notes: FOLLOW UP ON EMERGENCY SHUT OFF VIOLATION.
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-04-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-04-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-09-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: QUICK STOP#5- UST INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-16-2022
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: MONT CERT.
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-26-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: haz mat inspection and CERS review
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-26-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Mont cert, no ope,
Eval Division: San Bernardino County Fire Department

MOBIL STATION #92 (Continued) **U001574688**

Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-30-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-30-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-27-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: QUICK STOP #5 HAZMAT HANDLER
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-06-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: QUIK STOP #5 22087 BARTON RD GRAND TERRACE
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-04-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 03-04-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

MOBIL STATION #92 (Continued) **U001574688**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-09-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: QUICK STOP#5-UST INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-16-2022
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: WASTE INCIDENTAL UST OPERATION ONLY
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-26-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: haz waste insp and CERS review
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-09-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Hazmat Handler
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-19-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: QUICK STOP#5- UST- RE-TEST OF LIQUID SENSORS (UDC 1/2 AND 7/8.)
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-27-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ANNUAL UST AND MONITORING CERTIFICATION
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-27-2016
Violations Found: Yes

MOBIL STATION #92 (Continued) **U001574688**

Eval Type: Routine done by local agency
Eval Notes: QUICK STOP #5 WASTE INCIDENTAL
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-12-2019
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: UST OVERFILL RE-VERIFICATION INSPECTION.
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Enforcement Action:
Site ID: 145708
Site Name: QUICK STOP #5
Site Address: 22087 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 01-06-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Site Address: 22087 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 01-06-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Site Address: 22087 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 03-09-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5

MOBIL STATION #92 (Continued) **U001574688**

Site Address: 22087 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 03-09-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Site Address: 22087 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 03-09-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Site Address: 22087 BARTON RD
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Site Zip: 92313
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Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Site Address: 22087 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 06-09-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Site Address: 22087 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 06-09-2016
Enf Action Type: Notice of Violation (Unified Program)

MOBIL STATION #92 (Continued) **U001574688**

Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Site Address: 22087 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 06-27-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Site Address: 22087 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
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Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 145708
Site Name: QUICK STOP #5
Site Address: 22087 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 06-27-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Coordinates:
Site ID: 145708
Facility Name: QUICK STOP #5
Env Int Type Code: HWG
Program ID: 10043422
Coord Name: Not reported
Ref Point Type Desc: Unknown,
Latitude: 34.033558
Longitude: -117.322723

Affiliation:

MOBIL STATION #92 (Continued) **U001574688**

Affiliation Type Desc:	Parent Corporation
Entity Name:	QUICK STOP #5
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Ali Yasin
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(951) 232-1606,

Affiliation Type Desc:	UST Tank Owner
Entity Name:	Salam Yasin
Entity Title:	Not reported
Affiliation Address:	22087 Barton Rd.
Affiliation City:	Grand Terrace
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92313
Affiliation Phone:	(909) 424-0275,

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	22087 BARTON RD
Affiliation City:	GRAND TERRACE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	9213
Affiliation Phone:	,

Affiliation Type Desc:	Identification Signer
Entity Name:	Salam YASIN
Entity Title:	OWNER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Operator
Entity Name:	Arco Quick Stop
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

MOBIL STATION #92 (Continued) **U001574688**

Affiliation Zip:	Not reported
Affiliation Phone:	(909) 424-0275,
Affiliation Type Desc:	Property Owner
Entity Name:	Salam Yasin
Entity Title:	Not reported
Affiliation Address:	22087 BARTON RD
Affiliation City:	GRAND TERRACE
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92313
Affiliation Phone:	(909) 424-0275,
Affiliation Type Desc:	UST Tank Operator
Entity Name:	Salam Yasin
Entity Title:	Not reported
Affiliation Address:	22087 Barton Rd.
Affiliation City:	Grand Terrace
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92313
Affiliation Phone:	(909) 424-0281,
Affiliation Type Desc:	Document Preparer
Entity Name:	Patrick Kanchy
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Salam Yasin
Entity Title:	Not reported
Affiliation Address:	22975 ORANGEWOOD CT
Affiliation City:	GRAND TERRACE
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92313
Affiliation Phone:	(949) 701-1769,
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Mike Yasin
Entity Title:	Not reported
Affiliation Address:	24494 Jonna Ln.

MOBIL STATION #92 (Continued) **U001574688**

Affiliation City: Moreno Valley
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92553
Affiliation Phone: ,

Affiliation Type Desc: UST Property Owner Name
Entity Name: Salam Yasin
Entity Title: Not reported
Affiliation Address: 22087 Barton Rd.
Affiliation City: Grand Terrace
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92313
Affiliation Phone: (909) 424-0275,

Name: QWIK STOP ARCO
Address: 22087 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92324
Site ID: 231873
CERS ID: T0607100544
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: CATHERINE RICHARDS - SAN BERNARDINO COUNTY
Entity Title: Not reported
Affiliation Address: 620 SOUTH E STREET
Affiliation City: SAN BERNARDINO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9093868419,

Affiliation Type Desc: Regional Board Caseworker
Entity Name: VALERIE JAHN-BULL - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517824903,

HWTS:
Name: QWIK STOP ARCO
Address: 22087 BARTON RD
Address 2: Not reported
City,State,Zip: GRAND TERRACE, CA 92324
EPA ID: CAL912633553
Inactive Date: Not reported
Create Date: 09/20/1991
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 22087 BARTON RD

MOBIL STATION #92 (Continued) **U001574688**

Mailing Address 2:	Not reported
Mailing City,State,Zip:	GRAND TERRACE, CA 923130000
Owner Name:	ALI YASIN
Owner Address:	22087 BARTON RD
Owner Address 2:	Not reported
Owner City,State,Zip:	GRAND TERRACE, CA 923130000
Contact Name:	MIKE YASIN
Contact Address:	22087 BARTON RD
Contact Address 2:	Not reported
City,State,Zip:	GRAND TERRACE, CA 92313
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.051998
Longitude:	-117.27814

NAICS:

EPA ID:	CAL912633553
Create Date:	2002-08-12 13:36:22.263
NAICS Code:	44711
NAICS Description:	Gasoline Stations with Convenience Stores
Issued EPA ID Date:	1991-09-20 00:00:00
Inactive Date:	Not reported
Facility Name:	QWIK STOP ARCO
Facility Address:	22087 BARTON RD
Facility Address 2:	Not reported
Facility City:	GRAND TERRACE
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92324

A21 **QWIK STOP ARCO** **LUST** **S102039535**
WNW **22087** **HIST CORTESE** **N/A**
< 1/8 **GRAND TERRACE, CA 92324**
0.023 mi.
121 ft. **Site 21 of 23 in cluster A**

Relative:
Lower

Actual:
993 ft.

LUST REG 8:

Name:	QWIK STOP ARCO
Address:	22087 BARTON RD
City:	GRAND TERRACE
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Leak being confirmed
Case Number:	083603377T
Local Case Num:	99012
Case Type:	Soil only
Substance:	8006619, MTB
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK

QWIK STOP ARCO (Continued) **S102039535**

Leak Source:	UNK
Global ID:	T0607100544
How Stopped Date:	10/21/1998
Enter Date:	3/19/1999
Date Confirmation of Leak Began:	10/21/1998
Date Preliminary Assessment Began:	Not reported
Discover Date:	12/31/1998
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	3/19/1999
GW Qualifies:	ND
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.0337681
Longitude:	-117.3228929
MTBE Date:	2/23/2004
Max MTBE GW:	0
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	VJJ
Staff Initials:	CB5
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	MUN
Priority:	A1
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

HIST CORTESE:

edr_fname:	QWIK STOP ARCO
edr_fadd1:	22087
City,State,Zip:	GRAND TERRACE, CA 92324
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	08360337T

A22 **ARCO SERVICE STATION** **EDR Hist Auto** **1020312745**
WNW **22087N BARTON RD** **N/A**
< 1/8 **GRAND TERRACE, CA 92313**
0.023 mi.
121 ft. **Site 22 of 23 in cluster A**

Relative: EDR Hist Auto
Lower

Actual: **993 ft.**

Year:	Name:	Type:
1989	TERRACE AUTO REPAIR	General Automotive Repair Shops
1995	QWIK STOP	Gasoline Service Stations
1996	QWIK STOP	Gasoline Service Stations
1998	ALLOD INVESTMENTS	Gasoline Service Stations
1999	ALLOD INVESTMENTS	Gasoline Service Stations
2001	ALLOD INVESTMENTS	Gasoline Service Stations
2002	ARCO SERVICE STATION	Gasoline Service Stations
2002	ALLOD INVESTMENTS	Gasoline Service Stations
2003	ARCO SERVICE STATION	Gasoline Service Stations
2003	ALLOD INVESTMENTS	Gasoline Service Stations
2004	ALLOD INVESTMENTS	Gasoline Service Stations
2004	ARCO SERVICE STATION	Gasoline Service Stations
2005	ALLOD INVESTMENTS	Gasoline Service Stations, NEC
2005	ARCO SERVICE STATION	Gasoline Service Stations, NEC
2006	ARCO SERVICE STATION	Gasoline Service Stations, NEC
2006	ALLOD INVESTMENTS	Gasoline Service Stations, NEC
2007	A R C O SERVICE STATION	Gasoline Service Stations, NEC
2007	ALLOD INVESTMENTS	Gasoline Service Stations, NEC
2008	ALLOD INVESTMENTS	Gasoline Service Stations, NEC
2008	A R C O SERVICE STATION	Gasoline Service Stations, NEC
2009	ALLOD INVESTMENTS	Gasoline Service Stations, NEC
2009	A R C O SERVICE STATION	Gasoline Service Stations, NEC
2010	ALLOD INVESTMENTS	Gasoline Service Stations, NEC
2010	A R C O SERVICE STATION	Gasoline Service Stations, NEC
2011	ALLOD INVESTMENTS	Gasoline Service Stations, NEC
2011	A R C O SERVICE STATION	Gasoline Service Stations, NEC
2012	A R C O SERVICE STATION	Gasoline Service Stations, NEC
2012	ALLOD INVESTMENTS	Gasoline Service Stations, NEC
2013	ALLOD INVESTMENTS	Gasoline Service Stations, NEC
2013	A R C O SERVICE STATION	Gasoline Service Stations, NEC
2014	A R C O SERVICE STATION	Gasoline Service Stations, NEC
2014	ALLOD INVESTMENTS	Gasoline Service Stations, NEC

A23 **QWIK STOP AUTO** **UST** **U004271371**
WNW **22087 BARTON RD** **N/A**
< 1/8 **GRAND TERRACE, CA 92313**
0.023 mi.
121 ft. **Site 23 of 23 in cluster A**

Relative: UST CLOSURE:
Lower

Actual: **993 ft.**

Name:	QWIK STOP AUTO
Address:	22087 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Claim Number:	Claim No. 14590
Type:	Closure Denials and Approved Orders
Deadline Date:	2/20/2014
Documents:	22087 Barton Rd, Grand Terrace, CA 92313Notice, 22087 Barton Rd, Grand Terrace, CA 92313Exec Draft Order, 22087 Barton Rd, Grand Terrace, CA 92313Summary
Comments:	Not reported
Comments URL:	Not reported

QWIK STOP AUTO (Continued) **U004271371**

Response:	Not reported
Response URL:	Not reported
Comments2:	Not reported
Comments2 URL:	Not reported
Response2:	Not reported
Response2 URL:	Not reported
Closure:	WQO 2014-0051-UST (03/24/2014)
Closure URL:	https://geotracker.waterboards.ca.gov/regulators/deliverable_documents /2997419595/wqo_2014_0051_final.pdf
Uniform:	WQO 2014-0051-UST (03/24/2014)Uniform Closure Letter
Uniform URL:	https://geotracker.waterboards.ca.gov/regulators/deliverable_documents /7544800281/NFA Letter_Claim 14590.pdf

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B24 **TEXACO** **SWEEPS UST** **S103990671**
WNW **22045 BARTON ROAD AND RIVERSIDE** **HIST UST** **N/A**
< 1/8 **COLTON, CA 92334**
0.041 mi.
218 ft. **Site 1 of 11 in cluster B**

Relative: **Lower**

Actual: **990 ft.**

SWEEPS UST:

Name:	TEXACO
Address:	22045 BARTON RD
City:	COLTON
Status:	Active
Comp Number:	7312
Number:	9
Board Of Equalization:	44-000217
Referral Date:	07-28-92
Action Date:	07-28-92
Created Date:	02-29-88
Owner Tank Id:	1
SWRCB Tank Id:	36-000-007312-000001
Tank Status:	A
Capacity:	550
Active Date:	08-24-88
Tank Use:	OIL
STG:	W
Content:	WASTE OIL
Number Of Tanks:	5

Name:	TEXACO
Address:	22045 BARTON RD
City:	COLTON
Status:	Active
Comp Number:	7312
Number:	9
Board Of Equalization:	44-000217
Referral Date:	07-28-92
Action Date:	07-28-92
Created Date:	02-29-88
Owner Tank Id:	2
SWRCB Tank Id:	36-000-007312-000002
Tank Status:	A
Capacity:	6000
Active Date:	08-24-88
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED

TEXACO (Continued) **S103990671**

Number Of Tanks:	Not reported
Name:	TEXACO
Address:	22045 BARTON RD
City:	COLTON
Status:	Active
Comp Number:	7312
Number:	9
Board Of Equalization:	44-000217
Referral Date:	07-28-92
Action Date:	07-28-92
Created Date:	02-29-88
Owner Tank Id:	3
SWRCB Tank Id:	36-000-007312-000003
Tank Status:	A
Capacity:	6000
Active Date:	08-24-88
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported
Name:	TEXACO
Address:	22045 BARTON RD
City:	COLTON
Status:	Active
Comp Number:	7312
Number:	9
Board Of Equalization:	44-000217
Referral Date:	07-28-92
Action Date:	07-28-92
Created Date:	02-29-88
Owner Tank Id:	4
SWRCB Tank Id:	36-000-007312-000004
Tank Status:	A
Capacity:	6000
Active Date:	08-24-88
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported
Name:	TEXACO
Address:	22045 BARTON RD
City:	COLTON
Status:	Active
Comp Number:	7312
Number:	9
Board Of Equalization:	44-000217
Referral Date:	07-28-92
Action Date:	07-28-92
Created Date:	02-29-88
Owner Tank Id:	5
SWRCB Tank Id:	36-000-007312-000005
Tank Status:	A
Capacity:	6000
Active Date:	08-24-88

TEXACO (Continued) **S103990671**

Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

HIST UST:
Name: TEXACO
Address: 22045 BARTON ROAD AND RIVERSIDE
City,State,Zip: COLTON, CA 92334
File Number: 0002A77A
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A77A.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

B25 **TEXACO SERVICE STATION** **RCRA NonGen / NLR** **1004676969**
WNW **22045 BARTON RD** **FINDS** **CAR000091702**
< 1/8 **COLTON, CA 92324** **ECHO**
0.041 mi.
218 ft. **Site 2 of 11 in cluster B**

Relative: **Lower**
Actual: **990 ft.**

RCRA Listings:
Date Form Received by Agency: 20170403
Handler Name: TEXACO SERVICE STATION
Handler Address: 22045 BARTON RD
Handler City,State,Zip: COLTON, CA 92324
EPA ID: CAR000091702
Contact Name: SONDRA BIENVENU
Contact Address: P O BOX 2099 T S P 1501
Contact City,State,Zip: HOUSTON, TX 77252
Contact Telephone: 713-241-5036
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 09
Land Type: Private
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported

TEXACO SERVICE STATION (Continued) **1004676969**

Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		P O BOX 2099
Mailing City,State,Zip:		HOUSTON, TX 77252
Owner Name:	EQUILON ENTERPRISES	
Owner Type:		Private
Operator Name:	SCOTT BURKEY	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:	Not reported	

TEXACO SERVICE STATION (Continued) **1004676969**

Handler Date of Last Change:	20170414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D018
Waste Description:	BENZENE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: EQUILON ENTERPRISES	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	P O BOX 2099
Owner/Operator City,State,Zip:	HOUSTON, TX 77252
Owner/Operator Telephone:	713-241-5036
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: SCOTT BURKEY	
Legal Status:	Private
Date Became Current:	20170302
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: EQUILON ENTERPRISES	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	P O BOX 2099
Owner/Operator City,State,Zip:	HOUSTON, TX 77252
Owner/Operator Telephone:	713-241-5036
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

TEXACO SERVICE STATION (Continued) **1004676969**

Historic Generators:

Receive Date:	20010209
Handler Name:	TEXACO SERVICE STATION
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20170403
Handler Name:	TEXACO SERVICE STATION
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	562910
NAICS Description:	REMEDIATION SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINDS:

Registry ID:	110012198308

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

TEXACO SERVICE STATION (Continued) **1004676969**

ECHO:
Envid: 1004676969
Registry ID: 110012198308
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110012198308
Name: TEXACO SERVICE STATION
Address: 22045 BARTON RD
City,State,Zip: COLTON, CA 92324

B26 **TEXACO** **Notify 65** **U000032929**
WNW **22045 BARTON ROAD** **N/A**
< 1/8 **COLTON, CA 92324**
0.041 mi.
218 ft. **Site 3 of 11 in cluster B**

Relative: **Lower**
Actual: **990 ft.**

NOTIFY 65:
Name: TEXACO
Address: 22045 BARTON ROAD
City,State,Zip: COLTON, CA 92324-5001
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported
Global ID: Not reported
Status: Not reported

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27 **GOLDEN STAR INVESTMENT PROPERTIES LLC & ELAHE AMEN** **RCRA NonGen / NLR** **1026473177**
NE **22172 BARTON ROAD** **CAC003078834**
< 1/8 **GRAND TERRACE, CA 92313**
0.057 mi.
302 ft.

Relative: **Higher**
Actual: **1007 ft.**

RCRA Listings:
Date Form Received by Agency: 20200811
Handler Name: GOLDEN STAR INVESTMENT PROPERTIES LLC & ELAHE AMENHE ARFA LIVING TRUST
Handler Address: 22172 BARTON ROAD
Handler City,State,Zip: GRAND TERRACE, CA 92313
EPA ID: CAC003078834
Contact Name: BRIAN WAY
Contact Address: 4040 MACARTHUR BOULEVARD, SUITE 309
Contact City,State,Zip: NEWPORT BEACH, CA 92660
Contact Telephone: 714-726-7004
Contact Fax: Not reported
Contact Email: BRIAN@TELETUNEZ.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: Not reported
State District: Not reported

GOLDEN STAR INVESTMENT PROPERTIES LLC & ELAHE AMENHE ARFA LI (Continued) **1026473177**

Mailing Address:		4040 MACARTHUR BOULEVARD, SUITE 309
Mailing City,State,Zip:		NEWPORT BEACH, CA 92660
Owner Name:	BRIAN WAY	
Owner Type:		Other
Operator Name:	BRIAN WAY	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:	Not reported	
Handler Date of Last Change:		20200814
Recognized Trader-Importer:		No
Recognized Trader-Exporter:		No
Importer of Spent Lead Acid Batteries:		No

GOLDEN STAR INVESTMENT PROPERTIES LLC & ELAHE AMENHE ARFA LI (Continued) **1026473177**

Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: No
Manifest Broker: No
Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: BRIAN WAY
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4040 MACARTHUR BOULEVARD, SUITE 309
Owner/Operator City,State,Zip: NEWPORT BEACH, CA 92660
Owner/Operator Telephone: 714-726-7004
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: BRIAN WAY
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4040 MACARTHUR BOULEVARD, SUITE 309
Owner/Operator City,State,Zip: NEWPORT BEACH, CA 92660
Owner/Operator Telephone: 714-726-7004
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20200811
Handler Name: GOLDEN STAR INVESTMENT PROPERTIES LLC & ELAHE AMENHE ARFA LIVING TRUST
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B28 **TAKOURIAN TEXACO** **UST** **U004350395**
West **22045 BARTON RD** **N/A**
< 1/8 **GRAND TERRACE, CA 92313**
0.070 mi.
367 ft. **Site 4 of 11 in cluster B**

Relative: UST:
Lower

Actual:
988 ft.

Name:	TAKOURIAN TEXACO
Address:	22045 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Facility ID:	86009081
Permitting Agency:	SAN BERNARDINO COUNTY
CERSID:	Not reported
Latitude:	34.034841
Longitude:	-117.3223621
Owner type:	Not reported
Facility type:	Not reported
Num of inuse ust:	Not reported
Num of closed ust:	Not reported
Num of oos ust:	Not reported
Epa region:	Not reported
Tribal lands:	Not reported
Tank owner name:	Not reported
Tank owner mailing address:	Not reported
Tank owner mailing city:	Not reported
Tank owner mailing zip:	Not reported
Tank owner mailing state:	Not reported
Tank operator name:	Not reported
Tank operator mailing address:	Not reported
Tank operator mailing city:	Not reported
Tank operator mailing zip:	Not reported
Tank operator mailing state:	Not reported
Tankidnumber:	Not reported
Tank status:	Not reported
Tank configuration:	Not reported
Tank closure date:	Not reported
Tank installation date:	Not reported
Tank num of compartments:	Not reported
Tank contents:	Not reported
Tank capacity gallons:	Not reported
Tank type:	Not reported
Tank pc construction:	Not reported
Tank pwpiping construction:	Not reported
Tank piping type:	Not reported
Tank piping construction:	Not reported
Tank sacrificial anode:	Not reported
Tank cp impressed current:	Not reported
Tank cp shutoff:	Not reported
Tank alarms:	Not reported
Tank ball float:	Not reported
Tank spill bucket:	Not reported

B29 **GRAND TERRACE MARKETPLACE** **UST** **U004274177**
West **22045 BARTON RD** **N/A**
< 1/8 **GRAND TERRACE, CA 92313**
0.070 mi.
367 ft. **Site 5 of 11 in cluster B**

Relative: UST:
Lower

Actual:
988 ft.

Name:	GRAND TERRACE MARKETPLACE
Address:	22045 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Facility ID:	FA0010703
Permitting Agency:	San Bernardino County Fire Department
CERSID:	10051672
Latitude:	34.0337430
Longitude:	-117.3231130
Owner type:	Non-Government
Facility type:	Motor Vehicle Fueling
Num of inuse ust:	Not reported
Num of closed ust:	0
Num of oos ust:	0
Epa region:	9
Tribal lands:	No
Tank owner name:	KEROMINA MARKETPLACE, INC
Tank owner mailing address:	22045 BARTON ROAD
Tank owner mailing city:	GRAND TERRACE
Tank owner mailing zip:	92313
Tank owner mailing state:	CA
Tank operator name:	KEROMINA MARKETPLACE INC
Tank operator mailing address:	22045 BARTON ROAD
Tank operator mailing city:	GRAND TERRACE
Tank operator mailing zip:	92313
Tank operator mailing state:	CA
Tankidnumber:	3
Tank status:	Confirmed/Updated Information
Tank configuration:	One in a Compartmented Unit
Tank closure date:	Not reported
Tank installation date:	11/14/2006 12:00:00 AM
Tank num of compartments:	2
Tank contents:	Diesel
Tank capacity gallons:	10000
Tank type:	Double Wall
Tank pc construction:	Fiberglass
Tank pwpiping construction:	Fiberglass
Tank piping type:	Pressure
Tank piping construction:	Double Walled
Tank sacrificial anode:	No
Tank cp impressed current:	No
Tank cp shutoff:	No
Tank alarms:	Yes
Tank ball float:	No
Tank spill bucket:	Yes

Name:	GRAND TERRACE MARKETPLACE
Address:	22045 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Facility ID:	FA0010703
Permitting Agency:	San Bernardino County Fire Department
CERSID:	10051672
Latitude:	34.0337430

GRAND TERRACE MARKETPLACE (Continued) **U004274177**

Longitude:	-117.3231130
Owner type:	Non-Government
Facility type:	Motor Vehicle Fueling
Num of inuse ust:	Not reported
Num of closed ust:	0
Num of oos ust:	0
Epa region:	9
Tribal lands:	No
Tank owner name:	KEROMINA MARKETPLACE, INC
Tank owner mailing address:	22045 BARTON ROAD
Tank owner mailing city:	GRAND TERRACE
Tank owner mailing zip:	92313
Tank owner mailing state:	CA
Tank operator name:	KEROMINA MARKETPLACE INC
Tank operator mailing address:	22045 BARTON ROAD
Tank operator mailing city:	GRAND TERRACE
Tank operator mailing zip:	92313
Tank operator mailing state:	CA
Tankidnumber:	1
Tank status:	Confirmed/Updated Information
Tank configuration:	Stand Alone Tank
Tank closure date:	Not reported
Tank installation date:	11/14/2006 12:00:00 AM
Tank num of compartments:	1
Tank contents:	Regular Unleaded
Tank capacity gallons:	20000
Tank type:	Double Wall
Tank pc construction:	Fiberglass
Tank pwpiping construction:	Fiberglass
Tank piping type:	Pressure
Tank piping construction:	Double Walled
Tank sacrificial anode:	No
Tank cp impressed current:	No
Tank cp shutoff:	No
Tank alarms:	Yes
Tank ball float:	No
Tank spill bucket:	Yes

Name:	GRAND TERRACE MARKETPLACE
Address:	22045 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Facility ID:	FA0010703
Permitting Agency:	San Bernardino County Fire Department
CERSID:	10051672
Latitude:	34.0337430
Longitude:	-117.3231130
Owner type:	Non-Government
Facility type:	Motor Vehicle Fueling
Num of inuse ust:	Not reported
Num of closed ust:	0
Num of oos ust:	0
Epa region:	9
Tribal lands:	No
Tank owner name:	KEROMINA MARKETPLACE, INC
Tank owner mailing address:	22045 BARTON ROAD
Tank owner mailing city:	GRAND TERRACE
Tank owner mailing zip:	92313

GRAND TERRACE MARKETPLACE (Continued) **U004274177**

Tank owner mailing state:	CA
Tank operator name:	KEROMINA MARKETPLACE INC
Tank operator mailing address:	22045 BARTON ROAD
Tank operator mailing city:	GRAND TERRACE
Tank operator mailing zip:	92313
Tank operator mailing state:	CA
Tankidnumber:	2
Tank status:	Confirmed/Updated Information
Tank configuration:	One in a Compartmented Unit
Tank closure date:	Not reported
Tank installation date:	11/14/2006 12:00:00 AM
Tank num of compartments:	2
Tank contents:	Premium Unleaded
Tank capacity gallons:	12000
Tank type:	Double Wall
Tank pc construction:	Fiberglass
Tank pwpiping construction:	Fiberglass
Tank piping type:	Pressure
Tank piping construction:	Double Walled
Tank sacrificial anode:	No
Tank cp impressed current:	No
Tank cp shutoff:	No
Tank alarms:	Yes
Tank ball float:	No
Tank spill bucket:	Yes

B30 **KEROMINA MARKET PLACE INC** **RCRA NonGen / NLR** **1025873355**
West **22045 BARTON RD** **CAL000446481**
< 1/8 **GRAND TERRACE, CA 92313**
0.070 mi.
367 ft. **Site 6 of 11 in cluster B**

Relative: **Lower**

Actual: **988 ft.**

RCRA Listings:

Date Form Received by Agency:	20190604
Handler Name:	KEROMINA MARKET PLACE INC
Handler Address:	22045 BARTON RD
Handler City,State,Zip:	GRAND TERRACE, CA 92313
EPA ID:	CAL000446481
Contact Name:	FAHIM TANIOS
Contact Address:	22045 BARTON RD
Contact City,State,Zip:	GRAND TERRACE, CA 92313
Contact Telephone:	909-422-0611
Contact Fax:	909-422-0616
Contact Email:	KEROMINASHELL@HOTMAIL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	22045 BARTON RD
Mailing City,State,Zip:	GRAND TERRACE, CA 92313
Owner Name:	KEROMINA MARKET PLACE INC
Owner Type:	Other

KEROMINA MARKET PLACE INC (Continued) **1025873355**

Operator Name:	FAHIM TANIOS
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	Yes
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20190628
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

KEROMINA MARKET PLACE INC (Continued) **1025873355**

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: KEROMINA MARKET PLACE INC
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 22045 BARTON RD
Owner/Operator City,State,Zip: GRAND TERRACE, CA 92313
Owner/Operator Telephone: 909-422-0611
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: FAHIM TANIOS
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 22045 BARTON RD
Owner/Operator City,State,Zip: GRAND TERRACE, CA 92313
Owner/Operator Telephone: 909-422-0611
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20190604
Handler Name: KEROMINA MARKET PLACE INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 811490
NAICS Description: OTHER PERSONAL AND HOUSEHOLD GOODS REPAIR AND MAINTENANCE

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B31 **FORMER SHELL STATION** **LUST** **S106660960**
West **22045 BARTON ROAD** **Cortese** **N/A**
< 1/8 **GRAND TERRACE, CA 92313**
0.070 mi.
367 ft. **Site 7 of 11 in cluster B**

Relative: **Lower**

Actual: **988 ft.**

LUST REG 8:

Name:	FORMER SHELL STATION
Address:	22045 BARTON ROAD
City:	GRAND TERRACE
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Leak being confirmed
Case Number:	Not reported
Local Case Num:	2004027
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	MICHIGAN AVENUE
Enf Type:	Not reported
Funding:	LOPS
How Discovered:	Tank Closure
How Stopped:	Close Tank
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0607135873
How Stopped Date:	Not reported
Enter Date:	Not reported
Date Confirmation of Leak Began:	10/28/2004
Date Preliminary Assessment Began:	Not reported
Discover Date:	9/7/2004
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	=
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	0
Longitude:	0
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	2800
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	Not reported
Staff Initials:	LH6
Lead Agency:	Local Agency

FORMER SHELL STATION (Continued) **S106660960**

Local Agency:	36000L
Hydr Basin #:	Not reported
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

CORTESE:

Name:	FORMER SHELL STATION
Address:	22045 BARTON ROAD
City,State,Zip:	GRAND TERRACE, CA 92313
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607135873
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

B32 **TEXACO SERVICE STATION** **LUST** **S101301127**
West **22045 BARTON RD** **CERS HAZ WASTE** **N/A**
< 1/8 **GRAND TERRACE, CA 92324** **CERS TANKS**
0.070 mi. **Cortese**
367 ft. **Site 8 of 11 in cluster B** **HIST CORTESE**
HAZNET
Relative: **San Bern. Co. Permit**
Lower **CERS**

Actual:
988 ft.

LUST:

Name:	FORMER SHELL STATION
Address:	22045 BARTON ROAD
City,State,Zip:	GRAND TERRACE, CA 92313
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607135873
Global Id:	T0607135873
Latitude:	34.033709687
Longitude:	-117.323396
Status:	Completed - Case Closed
Status Date:	08/03/2012
Case Worker:	MG
RB Case Number:	Not reported

TEXACO SERVICE STATION (Continued) **S101301127**

Local Agency: SAN BERNARDINO COUNTY
File Location: Local Agency
Local Case Number: 2004027
Potential Media Affect: Soil, Under Investigation
Potential Contaminants of Concern: Gasoline
Site History: Groundwater monitoring and remediation occuring at this site.

LUST:
Global Id: T0607135873
Contact Type: Regional Board Caseworker
Contact Name: MAILE SEEGER GEE
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: maile.gee@waterboards.ca.gov
Phone Number: 9517824379

LUST:
Global Id: T0607135873
Action Type: ENFORCEMENT
Date: 08/10/2010
Action: Staff Letter

Global Id: T0607135873
Action Type: ENFORCEMENT
Date: 08/03/2012
Action: Closure/No Further Action Letter

Global Id: T0607135873
Action Type: Other
Date: 09/07/2004
Action: Leak Discovery

Global Id: T0607135873
Action Type: RESPONSE
Date: 10/12/2004
Action: Tank Removal Report / UST Sampling Report

Global Id: T0607135873
Action Type: ENFORCEMENT
Date: 09/28/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0607135873
Action Type: ENFORCEMENT
Date: 05/25/1999
Action: Site Visit / Inspection / Sampling

Global Id: T0607135873
Action Type: Other
Date: 09/13/2004
Action: Leak Reported

Global Id: T0607135873
Action Type: REMEDIATION
Date: 01/30/2008
Action: Soil Vapor Extraction (SVE)

TEXACO SERVICE STATION (Continued) **S101301127**

Global Id: T0607135873
Action Type: REMEDIATION
Date: 09/07/2004
Action: Excavation

Global Id: T0607135873
Action Type: ENFORCEMENT
Date: 07/09/2009
Action: Staff Letter

Global Id: T0607135873
Action Type: ENFORCEMENT
Date: 01/23/2008
Action: Notification - Public Notice of ROD/RAP/CAP

Global Id: T0607135873
Action Type: ENFORCEMENT
Date: 03/06/2012
Action: Staff Letter

Global Id: T0607135873
Action Type: ENFORCEMENT
Date: 02/01/2012
Action: Notification - Public Notice of Case Closure

Global Id: T0607135873
Action Type: RESPONSE
Date: 07/30/2012
Action: Well Destruction Report - Regulator Responded

Global Id: T0607135873
Action Type: ENFORCEMENT
Date: 02/18/2011
Action: Referral to Regional Board

Global Id: T0607135873
Action Type: ENFORCEMENT
Date: 08/04/2004
Action: Site Visit / Inspection / Sampling

LUST:
Global Id: T0607135873
Status: Open - Case Begin Date
Status Date: 09/07/2004

Global Id: T0607135873
Status: Open - Site Assessment
Status Date: 10/28/2004

Global Id: T0607135873
Status: Open - Remediation
Status Date: 10/29/2009

Global Id: T0607135873
Status: Open - Verification Monitoring
Status Date: 02/23/2011

TEXACO SERVICE STATION (Continued) **S101301127**

Global Id: T0607135873
Status: Completed - Case Closed
Status Date: 08/03/2012

Name: TEXACO SERVICE STATION
Address: 22045 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92324
Lead Agency: SAN BERNARDINO COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100196
Global Id: T0607100196
Latitude: 34.033549
Longitude: -117.323662
Status: Completed - Case Closed
Status Date: 12/17/1996
Case Worker: Not reported
RB Case Number: 083601660T
Local Agency: Not reported
File Location: Local Agency
Local Case Number: 90137
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0607100196
Action Type: ENFORCEMENT
Date: 09/23/1996
Action: Closure/No Further Action Letter

Global Id: T0607100196
Action Type: Other
Date: 09/11/1990
Action: Leak Discovery

Global Id: T0607100196
Action Type: Other
Date: 09/11/1990
Action: Leak Reported

Global Id: T0607100196
Action Type: Other
Date: 09/11/1990
Action: Leak Stopped

LUST:
Global Id: T0607100196
Status: Open - Case Begin Date
Status Date: 09/11/1990

Global Id: T0607100196
Status: Open - Site Assessment
Status Date: 09/11/1990

Global Id: T0607100196
Status: Open - Site Assessment

TEXACO SERVICE STATION (Continued) **S101301127**

Status Date: 09/13/1990

Global Id: T0607100196
Status: Open - Site Assessment
Status Date: 01/07/1991

Global Id: T0607100196
Status: Open - Remediation
Status Date: 12/07/1993

Global Id: T0607100196
Status: Completed - Case Closed
Status Date: 12/17/1996

LUST REG 8:

Name:	TEXACO SERVICE STATION
Address:	22045 BARTON RD
City:	GRAND TERRACE
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083601660T
Local Case Num:	90137
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Vapor Extraction
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	OM
How Stopped:	Not reported
Leak Cause:	Structure Failure
Leak Source:	Piping
Global ID:	T0607100196
How Stopped Date:	9/11/1990
Enter Date:	9/16/1990
Date Confirmation of Leak Began:	9/11/1990
Date Preliminary Assessment Began:	9/13/1990
Discover Date:	9/11/1990
Enforcement Date:	Not reported
Close Date:	12/17/1996
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	1/7/1991
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	12/7/1993
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	9/16/1990
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Yes
Oversite Program:	LUST
Latitude:	34.0339281

TEXACO SERVICE STATION (Continued) **S101301127**

Longitude:	-117.324273
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	RS
Staff Initials:	LH6
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

CERS HAZ WASTE:

Name:	GRAND TERRACE MARKETPLACE
Address:	22045 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Site ID:	395851
CERS ID:	10051672
CERS Description:	Hazardous Waste Generator

CERS TANKS:

Name:	GRAND TERRACE MARKETPLACE
Address:	22045 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Site ID:	395851
CERS ID:	10051672
CERS Description:	Underground Storage Tank

CORTESE:

Name:	TEXACO SERVICE STATION
Address:	22045 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92324
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100196
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported

TEXACO SERVICE STATION (Continued) **S101301127**

WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: TEXACO SERVICE STATION
edr_fadd1: 22045 BARTON
City,State,Zip: GRAND TERRACE, CA 92324
Region: CORTESE
Facility County Code: 36
Reg By: LTNKA
Reg Id: 083601660T

HAZNET:
Name: KEROMINA MARKET PLACE INC
Address: 22045 BARTON ROAD
Address 2: Not reported
City,State,Zip: GRAND TERRACE, CA 92313
Contact: FAHIM TANIOS
Telephone: 9094220611
Mailing Name: Not reported
Mailing Address: 22045 BARTON ROAD

Year: 2018
Gepaid: CAC002976374
TSD EPA ID: AZR000520478
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.68000

Year: 2018
Gepaid: CAC002976374
TSD EPA ID: AZR000520478
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.50000

San Bern. Co. Permit:
Name: GRAND TERRACE MARKETPLACE
Address: 22045 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0010703
Owner: FAHIM TANIOS
Permit Number: PT0030361
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 11/30/2022

Name: GRAND TERRACE MARKETPLACE
Address: 22045 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313

TEXACO SERVICE STATION (Continued) **S101301127**

Region: SAN BERNARDINO
Facility ID: FA0010703
Owner: FAHIM TANIOS
Permit Number: PT0040167
Permit Category: WASTE INCIDENTAL UST OPERATION ONLY -PER YEAR
Facility Status: ACTIVE
Expiration Date: 11/30/2022

Name: GRAND TERRACE MARKETPLACE
Address: 22045 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0010703
Owner: FAHIM TANIOS
Permit Number: PT0019428
Permit Category: COMPLEX ANNUAL INSP VPH/ > 8 DISP (PER TANK)
Facility Status: ACTIVE
Expiration Date: 11/30/2022

Name: GRAND TERRACE MARKETPLACE
Address: 22045 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0010703
Owner: FAHIM TANIOS
Permit Number: PT0019429
Permit Category: COMPLEX ANNUAL INSP VPH/ > 8 DISP (PER TANK)
Facility Status: ACTIVE
Expiration Date: 11/30/2022

Name: GRAND TERRACE MARKETPLACE
Address: 22045 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0010703
Owner: FAHIM TANIOS
Permit Number: PT0019430
Permit Category: COMPLEX ANNUAL INSP VPH/ > 8 DISP (PER TANK)
Facility Status: ACTIVE
Expiration Date: 11/30/2022

Name: GRAND TERRACE MARKETPLACE
Address: 22045 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0010703
Owner: FAHIM TANIOS
Permit Number: PT0019427
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 11/30/2020

Name: GRAND TERRACE SHELL
Address: 22045 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92314
Region: SAN BERNARDINO
Facility ID: FA0006581

TEXACO SERVICE STATION (Continued) **S101301127**

Owner: Equilon Enterprises LLC dba Shell Oil Products US
Permit Number: PT0001202
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 05/31/2006

Name: TEXACO REFINING/MRKTG INC
Address: 22045 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92324
Region: SAN BERNARDINO
Facility ID: FA0006635
Owner: Equilon Enterprises LLC dba Shell Oil Products US
Permit Number: PT0008803
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 08/31/2005

Name: TEXACO REFINING/MRKTG INC
Address: 22045 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92324
Region: SAN BERNARDINO
Facility ID: FA0006635
Owner: Equilon Enterprises LLC dba Shell Oil Products US
Permit Number: PT0008804
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 08/31/2005

Name: GRAND TERRACE SHELL
Address: 22045 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92314
Region: SAN BERNARDINO
Facility ID: FA0006581
Owner: Equilon Enterprises LLC dba Shell Oil Products US
Permit Number: PT0011909
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 05/31/2005

Name: GRAND TERRACE SHELL
Address: 22045 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92314
Region: SAN BERNARDINO
Facility ID: FA0006581
Owner: Equilon Enterprises LLC dba Shell Oil Products US
Permit Number: PT0011905
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 05/31/2005

Name: GRAND TERRACE SHELL
Address: 22045 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92314
Region: SAN BERNARDINO
Facility ID: FA0006581
Owner: Equilon Enterprises LLC dba Shell Oil Products US
Permit Number: PT0011906

TEXACO SERVICE STATION (Continued) **S101301127**

Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 05/31/2005

Name: GRAND TERRACE SHELL
Address: 22045 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92314
Region: SAN BERNARDINO
Facility ID: FA0006581
Owner: Equilon Enterprises LLC dba Shell Oil Products US
Permit Number: PT0011907
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 05/31/2005

Name: GRAND TERRACE SHELL
Address: 22045 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92314
Region: SAN BERNARDINO
Facility ID: FA0006581
Owner: Equilon Enterprises LLC dba Shell Oil Products US
Permit Number: PT0011908
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 05/31/2005

CERS:
Name: FORMER SHELL STATION
Address: 22045 BARTON ROAD
City,State,Zip: GRAND TERRACE, CA 92313
Site ID: 191594
CERS ID: T0607135873
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: MAILE SEEGER GEE - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517824379,

Name: TEXACO SERVICE STATION
Address: 22045 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92324
Site ID: 220902
CERS ID: T0607100196
CERS Description: Leaking Underground Storage Tank Cleanup Site

Name: GRAND TERRACE MARKETPLACE
Address: 22045 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Site ID: 395851

TEXACO SERVICE STATION (Continued) **S101301127**

CERS ID: 10051672
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-24-2018
Citation: 23 CCR 16 2712(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(f)
Violation Description: Failure to implement the corrections specified in the inspection report within 30 calendar days of receiving an inspection report from either the UPA or special inspector.
Violation Notes: Returned to compliance on 10/24/2018. Failure to correct past UST violations within 30 days of receiving a UST inspection report (23CCR 2712(f)) OBSERVATION: VIOLATIONS ISSUED 05/24/2017 WERE NOT CORRECTED. COMPLIANCE REQUIREMENT: CORRECT ALL OUTSTANDING VIOLATIONS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 06-17-2022
Citation: HSC 6.7 25293 - California Health and Safety Code, Chapter 6.7, Section(s) 25293
Violation Description: Failure to maintain UST records in sufficient detail to enable the UPA to determine whether the UST systems are in compliance.
Violation Notes: Returned to compliance on 07/18/2022. OBSERVATION: Owner/Operator did not maintain UST records in sufficient detail to enable the UPA to determine if UST systems are in compliance. 2021 Monitoring Certification test results and Overfill Prevention Equipment test results were not available for review at the time of inspection. CORRECTIVE ACTION: Maintain UST records in sufficient detail to enable the UPA to determine if UST systems are in compliance. Provide copies of 2021 monitoring certification and overfill prevention equipment inspections to this agency within 30 days.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 06-17-2022
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description: Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet

TEXACO SERVICE STATION (Continued) **S101301127**

overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.

Violation Notes: Returned to compliance on 07/22/2022. OBSERVATION: Owner/Operator failed to meet one or more of the requirements applicable to overfill prevention equipment. USTs have external audible/visual (A/V) alarms only. When an overfill alarm is activated for one UST, additional overfill alarms for the other tank will not activate if the alarm for the first tank has not yet cleared. This effectively eliminates overfill protection for all but one tank if multiple tanks are filled at the same time. CORRECTIVE ACTION: UST systems that can only activate external alarms when the first UST overfill condition occurs, additional actions must be taken to ensure that each UST has a functional overfill prevention independent of the other USTs at the facility (i.e., installing a separate alarm unit or other appropriate overfill equipment for each tank). Currently, additional overfill alarms for other tanks will not activate if the alarm of the first tank has not yet cleared. Submit plans and apply for permit to correct overfill [Truncated]

Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-24-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 08/17/2018. compliance activity epa id number CAC002976374 obtain for removal Failure to obtain an EPA ID Number (CCR 66262.12(a)) OBSERVED MISSING EPA ID NUMBER ON CERS FACILITY INFORMATION PAGE, COMPLIANCE REQUIREMENT: UPDATE CERS TO REFLECT CURRENT EPA ID NUMBER. SUBMIT SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-29-2014
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the underground storage tank and/or failure to maintain written monitoring and maintenance records on site, or off site if approved by the CUPA, for

TEXACO SERVICE STATION (Continued) **S101301127**

a period of 3 years, 6 1/2 years for cathodic protection, and 5 years for written performance claims pertaining to release detection systems and calibration and maintenance records for such systems.

Violation Notes: Returned to compliance on 05/30/2014. REQUIREMENT: PROVIDE COPIES OF ALL RECORDS INDICATING PROPER HANDLING OF THE "SET UP DATA WARNING" ALARMS FOR THE 87 ANNULAR SENSOR. DOCUMENTATION IS REQUIRED TO BE SUBMITTED TO THIS DEPARTMENT WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 06-17-2022
Citation: 23 CCR 16 2716(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(f)
Violation Description: Failure to maintain on-site, or off-site at a readily available location if approved by the UPA, copies of Designated Operator inspection records as follows: Designated operator monthly inspection records for inspections performed before October 1, 2018 must be kept for 12 months from the month of inspection. For inspections performed on or after October 1, 2018, copies of the "Designated Underground Storage Tank Operator Visual Inspection Report" must be kept for 36 months from the month of inspection.
Violation Notes: Returned to compliance on 07/18/2022. OBSERVATION: The May 2022 designated operator monthly inspection report(s) were not found on site. Designated operator monthly inspection reports for the previous twelve months shall be retained on site. CORRECTIVE ACTION: Locate and ensure that copies of the previous twelve months of designated operator monthly inspection reports are maintained on site. Provide copies to this agency within 30 days.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-24-2017
Citation: HSC 6.7 25290.1(d) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(d)
Violation Description: Failure of a UST system installed on or after July 1, 2004 to be designed and constructed with a monitoring system capable of detecting the entry of the liquid or vapor-phase of the hazardous substance stored in the primary containment into the secondary containment and capable of detecting water intrusion into the secondary containment.
Violation Notes: Returned to compliance on 05/24/2017. OBSERVED LIQUID IN VENT BOX SUMP AND IN UDC 11/12. COMPLIANCE REQUIREMENT: LIQUID WAS REMOVED FROM SUMPS AND PROPERLY CONTAINERIZED. VIOLATION WAS CORRECTED.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-24-2017
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)

TEXACO SERVICE STATION (Continued) **S101301127**

Violation Description:	Failure to have a UST Response Plan available on site.
Violation Notes:	Returned to compliance on 05/24/2018. OBSERVED UST SITE MAP MISSING REQUIRED INFORMATION. COMPLIANCE REQUIREMENT: UPDATE CERS UST SITE MAP TO REFLECT ALL REQUIRED COMPONENTS LISTED IN INSPECTION REPORT. SUBMIT SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	395851
Site Name:	GRAND TERRACE MARKETPLACE
Violation Date:	10-14-2015
Citation:	23 CCR 16 2638 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638
Violation Description:	Failure to test leak detection equipment as required every 12 months (VPH, sensor, LLD, ATG, etc.) and/or submit monitoring system certification to the CUPA within 30 days of completion of the test
Violation Notes:	Returned to compliance on 11/24/2015. 7 DAY NOV ISSUED FOR FAILURE TO ANNUALLY CERTIFY UST MONITORING SYSTEM COMPONENTS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	395851
Site Name:	GRAND TERRACE MARKETPLACE
Violation Date:	10-14-2015
Citation:	HSC 6.7 25299 - California Health and Safety Code, Chapter 6.7, Section(s) 25299
Violation Description:	Failure to comply with one or more of the operating permit conditions.
Violation Notes:	Returned to compliance on 11/24/2015. 7 DAY NOV ISSUED FOR FAILURE TO ANNUALLY CERTIFY UST MONITORING SYSTEM COMPONENTS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	395851
Site Name:	GRAND TERRACE MARKETPLACE
Violation Date:	06-17-2022
Citation:	23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description:	Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes:	Returned to compliance on 07/01/2022. OBSERVATION: Owner/Operator did not properly install, calibrate, operate and/or maintain leak detection equipment. Veeder Root monitor has non-functioning power light. CORRECTIVE ACTION: Properly install, calibrate, operate and/or maintain leak detection equipment. Repair or replace power light. Sign and submit certificate of compliance to this agency within 30 days.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	395851
Site Name:	GRAND TERRACE MARKETPLACE
Violation Date:	05-17-2019
Citation:	HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286

TEXACO SERVICE STATION (Continued) **S101301127**

Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 06/10/2020. OBSERVATION: THE FOLLOWING CERS INFORMATION IS INACCURATE TANK INFORMATION: VENT PIPING TRANSITION SUMP: IS DOUBLE WALLED. INDICATED AS NONE FOR T1. OVERFILL PREVENTION EQUIPMENT: INDICATE NO TO BALL FLOATS IF NOT CONSIDERED OVERFILL. IF CONSIDERED OVERFILL EQUIPMENT, THEY SHALL BE TESTED. COMPLIANCE: WITHIN 30 DAYS CORRECT IN CERS AND SUBMIT SIGNED CERTIFICATE OF COMPLIANCE AS DOCUMENTATION OF CORRECTION.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 06-17-2022
Citation: HSC 6.7 25290.1(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(e)
Violation Description: Failure to maintain the interstitial space such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment, i.e., vapor, pressure, hydrostatic (VPH) monitoring.
Violation Notes: Returned to compliance on 07/15/2022. OBSERVATION: Owner/Operator did not maintain the interstitial space under constant vacuum, pressure, or hydrostatic monitoring such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment. Observed hydrostatic monitoring fluid in UDC 5/6. CORRECTIVE ACTION: Maintain the interstitial space so that constant vacuum, pressure, or hydrostatic monitoring occurs. Investigate hydrostatic monitoring fluid leak in UDC 5/6. Submit work order and findings to this agency.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-24-2018
Citation: HSC 6.7 25290.1(d) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(d)
Violation Description: Failure of a UST system installed on or after July 1, 2004 to be designed and constructed with a monitoring system capable of detecting the entry of the liquid or vapor-phase of the hazardous substance stored in the primary containment into the secondary containment and capable of detecting water intrusion into the secondary containment.
Violation Notes: Returned to compliance on 05/24/2018. OBSERVATION: LIQUID WAS OBSERVED IN THE 87 STP & 87 FILL SUMPS. COMPLIANCE MET ON SITE: TECHNICIAN REMOVED LIQUID.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-17-2019

TEXACO SERVICE STATION (Continued) **S101301127**

Citation:	23 CCR 16 2716(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(e)
Violation Description:	For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days.
Violation Notes:	Returned to compliance on 06/10/2020. --- OBSERVATION: Fuel alarms of December 4, 2018 for L2 and L14 were not recorded. Corrective action not documented. --- COMPLIANCE: Ensure that all alarms are recorded and corrective action documented. Sign Certificate of Compliance as of understanding of requirements.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	395851
Site Name:	GRAND TERRACE MARKETPLACE
Violation Date:	05-29-2014
Citation:	23 CCR 16 2638 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638
Violation Description:	Failure to test leak detection equipment as required every 12 months (VPH, sensor, LLD, ATG, etc.) and/or submit monitoring system certification to the CUPA within 30 days of completion of the test
Violation Notes:	Returned to compliance on 05/28/2015. THE MONITORING CERTIFICATION PERFORMED TODAY (5/29/14) WAS PAST DUE. THE ANNIVERSARY DATE FOR TESTING WAS 5/16. THIS VIOLATION WILL REMAIN OPEN AND SUBJECT TO DAILY PENALTIES IF THE NEXT INSPECTION IS NOT PERFORMED ON OR BEFORE 5/16/15. TO BE VERIFIED. NOTE: THIS IS A REPEAT VIOLATION.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	395851
Site Name:	GRAND TERRACE MARKETPLACE
Violation Date:	05-24-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 05/24/2017. Failure to complete hazardous waste labels (CCR 66262.34(f)(3)) OBSERVED INCOMPLETE HAZARDOUS WASTE LABEL ON DRUM. COMPLIANCE REQUIREMENT: TECHNICIAN ADDED COMPLETE HAZARDOUS WASTE LABEL TO DRUM DURING INSPECTION. VIOLATION CORRECTED.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,

TEXACO SERVICE STATION (Continued) **S101301127**

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-24-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 05/24/2018. OBSERVED CERS HAZARDOUS MATERIALS INVENTORY SITE MAP MISSING HAZARDOUS WASTE STORAGE, STORM WATER DRAIN LOCATIONS, UTILITY SHUTOFF, EVACUATION ROUTE AND NORTH DIRECTION. COMPLIANCE REQUIREMENT: UPDATE CERS HAZARDOUS MATERIALS INVENTORY SITE MAP TO REFLECT ALL REQUIRED ELEMENTS. SUBMIT SIGNED CERTIFICATE OF COMPLAINCE WITIHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-25-2016
Citation: HSC 6.7 25299 - California Health and Safety Code, Chapter 6.7, Section(s) 25299
Violation Description: Failure to comply with one or more of the operating permit conditions.
Violation Notes: Returned to compliance on 05/25/2016. OBSERVATION: The Liquid sensor (VR 208) located in the UDC 9/10 was observed to be lifted above the sump. Sensor was not located at its lowest point and was observed to be resting in the above dispenser piping. COMPLIANCE MET ON STE: Technician place liquid sensor at lowest point.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-24-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 08/17/2018. Hazardous waste accumulation time exceeded (CCR 66262.34(a)) OBSERVED FULL HAZARDOUS WASTE DRUM WITH 5/26/16 ACCUMULATION START DATE STORED ON SIDE OF BUILDING. COMPLIANCE REQUIREMENT: SUBMIT COPY OF WASTE RECORD WITHIN 30 DAYS REFLECTING PROPER DISPOSAL OF HAZARDOUS WASTE. SUBMIT COPY OF SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 06-10-2020
Citation: 23 CCR 16 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2711(a)(8)
Violation Description: Failure to submit or maintain a current facility plot plan.
Violation Notes: Returned to compliance on 06/22/2021. OBSERVATION: The UST plot plan submitted via CERS does not have the approximate location of the piping. CORRECTIVE ACTION: Update the plot plan to include the

TEXACO SERVICE STATION (Continued) **S101301127**

location of the piping and re-submit all UST documents within 30 days.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 06-10-2020
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - General Local Ordinance - Must include violation description and proper ordinance citation in the "comment" section.
Violation Notes: Returned to compliance on 10/20/2020. OBSERVATION: Plans were approved to rinse and re-fill all tank top sumps with manufacturer approved Brine. The final inspection for the Brine rinsing was never completed and the plan check permit expired in September 2019. The sumps (not the have all had a bipass lines placed on the side of the reservoir, which connect about half way down the sump. No plans were submitted to this agency for this repair and this repair is not approved via manufacturers specifications for the sump wall. CORRECTIVE ACTION: Submit plans to repair/replace all tank top sumps (not including the 91 and 87 fill sumps), plans must be submitted to this agency within 30 days. Formal enforcement may occur.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-24-2018
Citation: HSC 6.7 25291(b) - California Health and Safety Code, Chapter 6.7, Section(s) 25291(b)
Violation Description: Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance into the secondary containment.
Violation Notes: Returned to compliance on 11/29/2018. OBSERVATION: THE VENT BOX AND UDC 1/2 BRINE SENSORS (VR 304) FAILED WHEN TESTED. COMPLIANCE REQUIREMENT: SUBMIT A COPY OF THE WORK ORDER DOCUMENTING THE REPLACEMENT & FUNCTIONALITY OF THE SENSORS- CALL FOR A WITNESSED RE-TEST OF THE REPLACEMENT SENSORS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-17-2019
Citation: 23 CCR 16 2715(a)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)(2)
Violation Description: Failure to submit the Underground Storage Tank Statement of Understanding and Compliance Form.
Violation Notes: Returned to compliance on 06/10/2020. OBSERVATION: FAILURE TO UPLOAD STATEMENT OF OWNER OPERATOR COMPLIANCE TO CERS COMPLIANCE: UPLOAD TO CERS WITHIN 30 DAYS
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

TEXACO SERVICE STATION (Continued) **S101301127**

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-28-2015
Citation: HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291
Violation Description: Failure to maintain under-dispenser containment, sumps, and/or other secondary containment in good condition and/or free of debris/liquid.
Violation Notes: Returned to compliance on 05/28/2015. POOLED LIQUIDS WERE OBSERVED INSIDE THE COMBINATION DIESEL FILL/STP SUMP AND UDC#7/8. THE LIQUIDS IN THE PREVIOUSLY NOTED SECONDARY CONTAINMENTS WERE REMOVED BY THE UST TECHNICIAN AT TIME OF INSPECTION.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-24-2017
Citation: 23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description: Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been properly trained.
Violation Notes: Returned to compliance on 05/24/2018. OBSERVED MISSING CAUSE AND CORRECTIVE ACTION FOR ALARMS LISTED ON INSPECTION REPORT FOR 12/31/16, L-17 SENSOR AND 9/16/16, L-8 SENSOR. SUBMIT CAUSE AND CORRECTIVE ACTION FOR LISTED ALARMS. ENSURE DO REPORT REFLECTS THIS INFORMATION. COMPLIANCE REQUIREMENT: SUBMIT CAUSE AND CORRECTIVE ACTION FOR LISTED ALARMS. SUBMIT REQUIRED DOCUMENT AND SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-28-2015
Citation: HSC 6.7 25299 - California Health and Safety Code, Chapter 6.7, Section(s) 25299
Violation Description: Failure to comply with one or more of the operating permit conditions.
Violation Notes: Returned to compliance on 11/24/2015. 87 FILL VR208 SENSOR FAILED WHEN TESTED. REPAIR/REPLACE FAILED SENSOR IMMEDIATELY AND SCHEDULE A WITNESSED RETEST WITHIN 15 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE

TEXACO SERVICE STATION (Continued) **S101301127**

Violation Date: 05-29-2014
Citation: HSC 6.7 25290.1(d) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(d)
Violation Description: Failure of a UST system installed on or after July 1, 2004 to be designed and constructed so as to detect the entry of the liquid or vapor-phase of the hazardous substance stored in the primary containment into the secondary containment and capable of detecting water intrusion into the secondary containment.
Violation Notes: Returned to compliance on 05/29/2014. AS A VPH-COMPLIANT SITE, THE SECONDARY CONTAINMENT COMPONENTS OF THE SYSTEM MUST REMAIN FREE AND CLEAR OF LIQUID INTRUSION. STANDING LIQUID WAS OBSERVED IN THE 87 AND 91 STP SUMPS. REQUIREMENT: ALL LIQUID WAS REMOVED AND PROPERLY CONTAINERIZED BY THE TECHNICIAN DURING THE INSPECTION. VIOLATION CORRECTED.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 06-10-2020
Citation: 23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description: Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).
Violation Notes: Returned to compliance on 06/10/2020. OBSERVATION: The annual monitoring certification was last conducted on 05/17/2020, which is over 12 months ago. CORRECTIVE ACTION: The annual monitoring certification was conducted while on-site. Formal enforcement may occur.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-28-2015
Citation: 23 CCR 16 2638 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638
Violation Description: Failure to test leak detection equipment as required every 12 months (VPH, sensor, LLD, ATG, etc.) and/or submit monitoring system certification to the CUPA within 30 days of completion of the test
Violation Notes: Returned to compliance on 11/24/2015. 87 REGULAR AND 91 PREMIUM DID NOT GO INTO OVERFILL ALARM AND IS NOT CERTIFIED. SCHEDULE A WITNESSED RETEST OF 87 REGULAR AND 91 PREMIUM OVERFILL ALARMS WITHIN 15 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-17-2019
Citation: 23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description: Failure of the leak detection equipment to be installed, calibrated,

TEXACO SERVICE STATION (Continued) **S101301127**

operated, and/or maintained properly.
Violation Notes: Returned to compliance on 10/20/2020. OBSERVATION: The fluid observed in the interstitial space, appears to not be consistent with manufacturers required hydrostatic fluid. The Xerxes tank sumps interstitial fluid supported mold growth. The color, texture, and odor of the fluid was more characteristic of water than manufacturer approved hydrostatic fluid. Rust was noted on the VR 304 sensors. In each of the 6 UDCs the observed fluid was either a mixture of clear or blue fluid. None of the reservoirs contained pink Bravo manufacturer fluid. COMPLIANCE: Within 30 days, select a contractor, apply for UST modification permit by submitting a workplan comply with manufacturer requirements and prevent damage to the leak detection system. Within 7 days of plan approval begin corrective action to flush, rinse, and properly dispose of all fluid within the interstitial spaces of the UST system. Replace with manufacturer approved hydrostatic fluid. Remove and dispose of all fluid appropriately, a disposal receipt [Truncated]
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 06-22-2021
Citation: 23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description: Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes: Returned to compliance on 03/11/2022. OBSERVATION: The Hydrostatic monitoring fluid observed within the vent box appeared to be clear on one side and blue on the other. Black debris was also observed within the vent box reservoir. Per the manufacturer, the hydrostatic monitoring fluid should be a pink color for this containment. CORRECTIVE ACTION: Vacuum out, triple rinse, and replace the hydrostatic monitoring fluid for the vent box within 30 days. The hydrostatic monitoring fluid must be added to the sump via manufacturers recommendations. Submit a work order to this agency within 30 days stating this work has been completed.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-25-2016
Citation: HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description: Failure to operate the UST system to prevent spills and/or overfills.
Violation Notes: Returned to compliance on 06/23/2016. COMPLIANCE ACTIVITY: 06/23/2016-FACILITY PASSED CONSTRUCTION INSPECTION OBSERVATION: 1) The Liquid sensor (VR 208) located in the UDC 9/10 was observed to be lifted above the sump. Sensor was not located at its lowest point and was observed to be resting in the above dispenser piping. 2) The diesel flex piping located in UDC 9/10 was observed to be leaking. COMPLIANCE REQUIREMENT: 1) Submit signed statement of facts to why and when diesel fuel was discovered in UDC 9/10 and what preventive measures will be initiated to prevent this event from reoccurring

TEXACO SERVICE STATION (Continued) **S101301127**

again-- Operator submitted statement of facts during the inspection. 2) Submit a scope of work for the repair of the flex line located in UDC 9/10 and obtained a construction permit for the repair of the diesel's flex line.

Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-24-2017
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 05/24/2018. OBSERVED ANNUAL TRAINING RECORDS NOT AVAILABLE FOR REVIEW. COMPLIANCE REQUIREMENT: SUBMIT COPY OF ANNUAL TRAINING RECORD TO THIS PROGRAM WITHIN 30 DAYS. ENSURE ANNUAL TRAINING IS BEING PERFORMED.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-24-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 05/24/2018. OBSERVED HAZARDOUS MATERIALS INVENTORY MISSING UST WASTE LIQUID, TESTING LIQUID DRUMS. COMPLIANCE REQUIREMENT: ADD UST TEST LIQUID/ WASTE LIQUID TO CERS HAZARDOUS MATERIALS INVENTORY. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-18-2016
Citation: HSC 6.7 29291(b) - California Health and Safety Code, Chapter 6.7, Section(s) 29291(b)
Violation Description: Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance stored in the primary containment into the secondary containment.
Violation Notes: Returned to compliance on 06/23/2016. COMPLIANCE ACTIVITY: 06/23/2016-FACILITY PASSED CONSTRUCTION INSPECTION OBSERVATION: 1) The Liquid sensor (VR 208) located in the UDC 9/10 was observed to be lifted above the sump. Sensor was not located at its lowest point and was observed to be resting in the above dispenser piping. 2) The diesel flex piping located in UDC 9/10 was observed to be leaking. 3)

TEXACO SERVICE STATION (Continued) **S101301127**

Diesel fuel was observed in UDC 9/10. COMPLIANCE REQUIREMENT: 1) Submit signed statement of facts to why and when diesel fuel was discovered in UDC 9/10 and what preventive measures will be initiated to prevent this event from reoccurring again-- Operator submitted statement of facts during the inspection. 2) Submit a scope of work for the repair of the flex line located in UDC 9/10 and obtained a construction permit for the repair of the diesel's flex line. 3) Technician removed diesel fuel from UDC 9/10.

Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-24-2017
Citation: HSC 6.7 29291(b) - California Health and Safety Code, Chapter 6.7, Section(s) 29291(b)
Violation Description: Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance into the secondary containment.
Violation Notes: Returned to compliance on 06/01/2017. OBSERVED BRINE SENSOR AT 87 FILL SUMP AND VACUUM SENSOR (VENT LINE SMART SENSOR) AT 91 SUMP NOT FUNCTIONING PROPERLY WHEN TESTED. COMPLIANCE REQUIREMENT: SUBMIT WORK ORDER COPY FOR SENSOR REPAIR/ REPLACEMENT. IF NOT REPLACING "LIKE FOR LIKE" THEN CONTACT OUR OFFICE PRIOR TO PERFORMING WORK. SUBMIT COPY OF RETEST RESULTS ON TESTING FORM. SUBMIT REQUIRED DOCUMENTATION WITHIN 7 (SEVEN) DAYS. 6/2/17 RECIEVED RECORD FOR SENSOR REPLACEMENT. SENT EMAIL REQUIRING TEST REPORT REFLECTING RETEST. VIOLATION CORRECTED PSAAVEDRA
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-24-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 05/24/2018. OBSERVED CUPA EMERGENCY RESPONSE PHONE NUMBER MISSING FROM CERS EMERGENCY RESPONSE ELEMENT. COMPLIANCE REQUIREMENT: UPDATE CERS EMERGENCY RESPONSE ELEMENT TO REFLECT CURRENT EMERGENCY RESPONSE PHONE NUMBER OF 1-800 33- TOXIC OR (909)386-8425. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Violation Date: 05-17-2019
Citation: 23 CCR 16 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2711(a)(8)
Violation Description: Failure to submit or maintain a current facility plot plan.
Violation Notes: Returned to compliance on 06/22/2021. OBSERVATION: UST MONITORING SITE

TEXACO SERVICE STATION (Continued) **S101301127**

PLAN: MAP REQUIRES LEAK DETECTION EQUIPMENT AND PIPING LAYOUT
COMPLIANCE: CORRECT IN CERS WITHIN 30 DAYS
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-28-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: UST ANNUAL INSPECTION WITH MONITORING SYSTEM CERTIFICATION
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-10-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-14-2015
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: 7 DAY NOV ISSUED FOR FAILURE TO ANNUALLY CERTIFY UST COMPONENTS
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-04-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: GRAND TERRACE0 UST OVERFILL INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-17-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: GRAND TERRACE OPE IS ATG PASSED
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-24-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: HAZMAT HANDLER INSPECTION UST ONLY

TEXACO SERVICE STATION (Continued) **S101301127**

Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-10-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-17-2022
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: WASTE INCIDENTAL UST OPERATION ONLY
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-17-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: MONT CERT.
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-22-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 08-26-2022
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: SR0202559 - OPE
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-04-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: GRAND TERRACE- UST RE-INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

TEXACO SERVICE STATION (Continued) **S101301127**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-17-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: GRAND TERRACE CERS REFLECTS INVENTORY
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-17-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: GRAND TERRACE MONT CERT VPH
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-24-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: WASTE INCIDENTAL TO UST INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-24-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: GRAND TERRACE- UST INSPECTION & UST MONITORING CERTIFICATION
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-25-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: GRAND TERRANCE MARKETPLACE- UST INSPECTION AND UST MONITORING CERTIFICATION
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-23-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: construction consultation with xerxes and corona fueling and electric
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-24-2017

TEXACO SERVICE STATION (Continued) **S101301127**

Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ANNUAL UST INSPECTION AND CERS REVIEW
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-28-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HAZARDOUS MATERIALS INSPECTION - UST ONLY
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-29-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: UST HANDLER INSEPCTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-29-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: UST FIELD INSPECTION-ANNUAL MONITORING SYSTEM CERTIFICATION (3 TANK-VPH SITE) W/BRAD LARSON
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-10-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-22-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-22-2021
Violations Found: No
Eval Type: Routine done by local agency

TEXACO SERVICE STATION (Continued) **S101301127**

Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-22-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Enforcement Action:
Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Site Address: 22045 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 01-25-2022
Enf Action Type: Referral to District Attorney
Enf Action Description: Referral to District Attorney
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Site Address: 22045 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 05-24-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Site Address: 22045 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 05-24-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Site Address: 22045 BARTON RD

TEXACO SERVICE STATION (Continued) **S101301127**

Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 05-24-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Site Address: 22045 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 05-25-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Site Address: 22045 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 05-25-2016
Enf Action Type: Referral to Other
Enf Action Description: Referral to Other
Enf Action Notes: TANK ID: T3 309-FAILURE TO PROPERLY MONITOR UST SYSTEM AS SPECIFIED BY THE PERMIT CHSC25297 329-FAILURE TO MEET THE DESIGN, CONSTRUCTION, AND MONITORING PROCEDURES AND RESPONSE PLAN CCR23-2632 340-FAILURE TO OPERATE A UST SYSTEM TO PREVENT UNAUTHORIZED RELEASE CHSC25291.1 TANK ID: T3.
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Site Address: 22045 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 05-28-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Site Address: 22045 BARTON RD
Site City: GRAND TERRACE

TEXACO SERVICE STATION (Continued) **S101301127**

Site Zip: 92313
Enf Action Date: 05-29-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Site Address: 22045 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 08-30-2016
Enf Action Type: AEO - Unified Program
Enf Action Description: Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes: Fines/Penalties Assessed: $2,040.00. OWNER/OPERATOR FAILED TO PROPERLY MONITOR THE UST SYSTEM PER CHSC SECTION 25293 AND FAILED TO MEET THE DESIGN, CONSTRUCTION, AND MONITORING REQUIREMENTS OF THE UST SYSTEM PER CCR TITLE 23 SECTION 2630, AS EVIDENCED BY THE ALLEGED TAMPERING AND DISABLING OF THE MONITORING SYSTEM. ALSO KNOWN AS KERO MINA MARKETPLACE.
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 395851
Site Name: GRAND TERRACE MARKETPLACE
Site Address: 22045 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 10-14-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Coordinates:
Site ID: 395851
Facility Name: GRAND TERRACE MARKETPLACE
Env Int Type Code: HMBP
Program ID: 10051672
Coord Name: Not reported
Ref Point Type Desc: Unknown,
Latitude: 34.033535
Longitude: -117.323570

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 22045 BARTON RD
Affiliation City: GRAND TERRACE

TEXACO SERVICE STATION (Continued) **S101301127**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92313
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	KEROMINA MARKETPLACE INC
Entity Title:	Not reported
Affiliation Address:	22045 BARTON RD
Affiliation City:	GRAND TERRACE
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92313
Affiliation Phone:	(909) 422-0611,
Affiliation Type Desc:	Parent Corporation
Entity Name:	GRAND TERRACE MARKETPLACE
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	FAHIM TANIOS
Entity Title:	Not reported
Affiliation Address:	22045 BARTON RD
Affiliation City:	GRAND TERRACE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92313
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	FAHIM TANIOS
Entity Title:	Mgr
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	KEROMINA MARKETPLACE INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 422-0611,
Affiliation Type Desc:	Property Owner
Entity Name:	KEROMINA MARKETPLACE, INC

TEXACO SERVICE STATION (Continued) **S101301127**

Entity Title: Not reported
Affiliation Address: 22045 BARTON RD
Affiliation City: GRAND TERRACE
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92313
Affiliation Phone: (909) 422-0661,

Affiliation Type Desc: UST Tank Operator
Entity Name: KEROMINA MARKETPLACE INC
Entity Title: Not reported
Affiliation Address: 22045 BARTON ROAD
Affiliation City: GRAND TERRACE
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92313
Affiliation Phone: (909) 422-0611,

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401,

Affiliation Type Desc: Document Preparer
Entity Name: Dawn Harkey
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: UST Property Owner Name
Entity Name: KEROMINA MARKETPLACE, INC
Entity Title: Not reported
Affiliation Address: 22045 BARTON ROAD
Affiliation City: GRAND TERRACE
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92313
Affiliation Phone: (909) 422-0611,

Affiliation Type Desc: UST Permit Applicant
Entity Name: KIMBERLY LARSON
Entity Title: DESIGNATED OPERATOR
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (760) 221-4508,

TEXACO SERVICE STATION (Continued) **S101301127**

Affiliation Type Desc:	UST Tank Owner
Entity Name:	KEROMINA MARKETPLACE, INC
Entity Title:	Not reported
Affiliation Address:	22045 BARTON ROAD
Affiliation City:	GRAND TERRACE
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92313
Affiliation Phone:	(909) 422-0611,

B33 **TAKOURIANS TEXACO** **EDR Hist Auto** **1021090289**
West **22045 BARTON RD** **N/A**
< 1/8 **GRAND TERRACE, CA 92313**
0.070 mi.
367 ft. **Site 9 of 11 in cluster B**

Relative: EDR Hist Auto
Lower

Actual: **988 ft.**

Year:	Name:	Type:
1991	TAKOURIANS TEXACO	Gasoline Service Stations
1992	TAKOURIANS TEXACO	Gasoline Service Stations
1993	TAKOURIANS TEXACO	Gasoline Service Stations
1994	TAKOURIANS TEXACO	Gasoline Service Stations
1995	TAKOURIANS TEXACO	Gasoline Service Stations
1996	TAKOURIANS TEXACO	Gasoline Service Stations
1997	TAKOURIANS TEXACO	Gasoline Service Stations
1998	TAKOURIANS TEXACO	Gasoline Service Stations
1999	TAKOURIANS TEXACO	Gasoline Service Stations
2000	TAKOURIANS TEXACO	Gasoline Service Stations
2001	TAKOURIANS TEXACO	Gasoline Service Stations
2002	GRAND TERRACE TEXACO	Gasoline Service Stations
2003	GRAND TERRACE TEXACO	Gasoline Service Stations

B34 **KERO MINA MARKETPLACE** **UST** **U004353536**
West **22045 BARTON RD** **N/A**
< 1/8 **GRAND TERRACE, CA 92313**
0.070 mi.
367 ft. **Site 10 of 11 in cluster B**

Relative: UST:
Lower

Actual: **988 ft.**

Name:	KERO MINA MARKETPLACE
Address:	22045 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Facility ID:	FA0010703
Permitting Agency:	San Bernardino County Fire Department
CERSID:	Not reported
Latitude:	34.033743
Longitude:	-117.323113
Owner type:	Not reported
Facility type:	Not reported
Num of inuse ust:	Not reported
Num of closed ust:	Not reported
Num of oos ust:	Not reported
Epa region:	Not reported
Tribal lands:	Not reported

KERO MINA MARKETPLACE (Continued) **U004353536**

Tank owner name:	Not reported
Tank owner mailing address:	Not reported
Tank owner mailing city:	Not reported
Tank owner mailing zip:	Not reported
Tank owner mailing state:	Not reported
Tank operator name:	Not reported
Tank operator mailing address:	Not reported
Tank operator mailing city:	Not reported
Tank operator mailing zip:	Not reported
Tank operator mailing state:	Not reported
Tankidnumber:	Not reported
Tank status:	Not reported
Tank configuration:	Not reported
Tank closure date:	Not reported
Tank installation date:	Not reported
Tank num of compartments:	Not reported
Tank contents:	Not reported
Tank capacity gallons:	Not reported
Tank type:	Not reported
Tank pc construction:	Not reported
Tank pwpiping construction:	Not reported
Tank piping type:	Not reported
Tank piping construction:	Not reported
Tank sacrificial anode:	Not reported
Tank cp impressed current:	Not reported
Tank cp shutoff:	Not reported
Tank alarms:	Not reported
Tank ball float:	Not reported
Tank spill bucket:	Not reported

B35
West
< 1/8
0.070 mi.
367 ft.

KEROMINA MARKET PLACE, INC **RCRA NonGen / NLR** **1024756546**
22045 BARTON ROAD **CAC002976374**
GRAND TERRACE, CA 92313

Site 11 of 11 in cluster B

Relative:
Lower

Actual:
988 ft.

RCRA Listings:

Date Form Received by Agency:	20180817
Handler Name:	KEROMINA MARKET PLACE, INC
Handler Address:	22045 BARTON ROAD
Handler City,State,Zip:	GRAND TERRACE, CA 92313
EPA ID:	CAC002976374
Contact Name:	FAHIM TANIOS
Contact Address:	22045 BARTON ROAD
Contact City,State,Zip:	GRAND TERRACE, CA 92313
Contact Telephone:	909-422-0611
Contact Fax:	Not reported
Contact Email:	HEATHER@STATEWIDE-TOWING.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported

KEROMINA MARKET PLACE, INC (Continued) **1024756546**

Mailing Address:		22045 BARTON ROAD
Mailing City,State,Zip:		GRAND TERRACE, CA 92313
Owner Name:	FAHIM TANIOS	
Owner Type:		Other
Operator Name:	FAHIM TANIOS	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:	Not reported	
Handler Date of Last Change:		20180905
Recognized Trader-Importer:		No
Recognized Trader-Exporter:		No
Importer of Spent Lead Acid Batteries:		No

KEROMINA MARKET PLACE, INC (Continued) **1024756546**

Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: No
Manifest Broker: No
Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: FAHIM TANIOS
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 22045 BARTON ROAD
Owner/Operator City,State,Zip: GRAND TERRACE, CA 92313
Owner/Operator Telephone: 909-422-0611
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: FAHIM TANIOS
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 22045 BARTON ROAD
Owner/Operator City,State,Zip: GRAND TERRACE, CA 92313
Owner/Operator Telephone: 909-422-0611
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20180817
Handler Name: KEROMINA MARKET PLACE, INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C36 **SURBER MACHINE** **San Bern. Co. Permit** **S104770847**
SSW **12210 MICHIGAN AVE 14** **N/A**
< 1/8 **GRAND TERRACE, CA 92313**
0.077 mi.
405 ft. **Site 1 of 7 in cluster C**

Relative: **Lower**

Actual: **992 ft.**

San Bern. Co. Permit:

Name:	SURBER MACHINE
Address:	12210 MICHIGAN AVE 14
City,State,Zip:	GRAND TERRACE, CA 92313
Region:	SAN BERNARDINO
Facility ID:	FA0006555
Owner:	SURBER, DOUGLAS
Permit Number:	PT0000514
Permit Category:	HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status:	INACTIVE
Expiration Date:	08/31/2011

C37 **EXTREME PERFORMANCE** **San Bern. Co. Permit** **S104766131**
SSW **12210 MICHIGAN AVE 3** **N/A**
< 1/8 **GRAND TERRACE, CA 92313**
0.077 mi.
405 ft. **Site 2 of 7 in cluster C**

Relative: **Lower**

Actual: **992 ft.**

San Bern. Co. Permit:

Name:	EXTREME PERFORMANCE
Address:	12210 MICHIGAN AVE 3
City,State,Zip:	GRAND TERRACE, CA 92313
Region:	SAN BERNARDINO
Facility ID:	FA0002982
Owner:	Allan Nimmo
Permit Number:	PT0007394
Permit Category:	HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status:	INACTIVE
Expiration Date:	08/31/2007

D38 **CALIFORNIA SKATE GRAND TERRACE** **San Bern. Co. Permit** **S102682754**
WSW **22080 COMMERCE WAY** **HWTS** **N/A**
< 1/8 **GRAND TERRACE, CA 92313**
0.077 mi.
405 ft. **Site 1 of 4 in cluster D**

Relative: **Lower**

Actual: **986 ft.**

San Bern. Co. Permit:

Name:	CALIFORNIA SKATE GRAND TERRACE
Address:	22080 COMMERCE WAY
City,State,Zip:	GRAND TERRACE, CA 92313
Region:	SAN BERNARDINO
Facility ID:	FA0001732
Owner:	CARLSON, STAN
Permit Number:	PT0017251
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status:	INACTIVE
Expiration Date:	04/30/2015

Name:	CALIFORNIA SKATE GRAND TERRACE
Address:	22080 COMMERCE WAY
City,State,Zip:	GRAND TERRACE, CA 92313
Region:	SAN BERNARDINO

CALIFORNIA SKATE GRAND TERRACE (Continued) **S102682754**

Facility ID: FA0001732
Owner: CARLSON, STAN
Permit Number: PT0008806
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/2006

Name: CALIFORNIA SKATE GRAND TERRACE
Address: 22080 COMMERCE WAY
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0001732
Owner: CARLSON, STAN
Permit Number: PT0008805
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 04/30/2006

HWTS:

Name:	CALIFORNIA SKATE GRAND TERRACE
Address:	22080 COMMERCE WAY
Address 2:	Not reported
City,State,Zip:	GRAND TERRACE, CA 92313
EPA ID:	CAL000467650
Inactive Date:	Not reported
Create Date:	12/30/2021
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	22080 COMMERCE WAY
Mailing Address 2:	Not reported
Mailing City,State,Zip:	GRAND TERRACE, CA 92313
Owner Name:	ERIC DOMINGUEZ
Owner Address:	22080 COMMERCE WAY
Owner Address 2:	Not reported
Owner City,State,Zip:	GRAND TERRACE, CA 92313
Contact Name:	KALEI BECKER
Contact Address:	22080 COMMERCE WAY
Contact Address 2:	Not reported
City,State,Zip:	GRAND TERRACE, CA 92313
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.03311401
Longitude:	-117.322863

D39 **CALIFORNIA SKATE GRAND TERRACE** **RCRA NonGen / NLR** **1027094077**
WSW **22080 COMMERCE WAY** **CAL000467650**
< 1/8 **GRAND TERRACE, CA 92313**
0.077 mi.
405 ft. **Site 2 of 4 in cluster D**

Relative: **Lower**

Actual: **986 ft.**

RCRA Listings:

Date Form Received by Agency:	20211230
Handler Name:	CALIFORNIA SKATE GRAND TERRACE
Handler Address:	22080 COMMERCE WAY
Handler City,State,Zip:	GRAND TERRACE, CA 92313
EPA ID:	CAL000467650

CALIFORNIA SKATE GRAND TERRACE (Continued) **1027094077**

Contact Name:		KALEI BECKER
Contact Address:		22080 COMMERCE WAY
Contact City,State,Zip:		GRAND TERRACE, CA 92313
Contact Telephone:		909-422-9565
Contact Fax:		Not reported
Contact Email:		KALEI.CALSKATEGT@GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		22080 COMMERCE WAY
Mailing City,State,Zip:		GRAND TERRACE, CA 92313
Owner Name:	ERIC DOMINGUEZ	
Owner Type:		Other
Operator Name:	KALEI BECKER	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No

CALIFORNIA SKATE GRAND TERRACE (Continued) **1027094077**

Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20220110
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: ERIC DOMINGUEZ	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	22080 COMMERCE WAY
Owner/Operator City,State,Zip:	GRAND TERRACE, CA 92313
Owner/Operator Telephone:	909-422-9565
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: KALEI BECKER	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	22080 COMMERCE WAY
Owner/Operator City,State,Zip:	GRAND TERRACE, CA 92313
Owner/Operator Telephone:	909-422-9565
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20211230
Handler Name: CALIFORNIA SKATE GRAND TERRACE	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No

CALIFORNIA SKATE GRAND TERRACE (Continued) **1027094077**

Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 812990
NAICS Description: ALL OTHER PERSONAL SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

D40 **CAL SKATE GT** **RCRA NonGen / NLR** **1027067429**
WSW **22080 COMMERCE WAY** **CAC003138674**
< 1/8 **GRAND TERRACE, CA 92313**
0.077 mi.
405 ft. **Site 3 of 4 in cluster D**

Relative: **Lower**
Actual: **986 ft.**

RCRA Listings:

Date Form Received by Agency:		20210913
Handler Name:	CAL SKATE GT	
Handler Address:		22080 COMMERCE WAY
Handler City,State,Zip:		GRAND TERRACE, CA 92313
EPA ID:		CAC003138674
Contact Name:		KALEI BECKER
Contact Address:		22080 COMMERCE WAY
Contact City,State,Zip:		GRAND TERRACE, CA 92313
Contact Telephone:		909-422-9565
Contact Fax:		Not reported
Contact Email:		KALEI.CALSKATEGT@GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		22080 COMMERCE WAY
Mailing City,State,Zip:		GRAND TERRACE, CA 92313
Owner Name:	CAL SKATE GT	
Owner Type:		Other
Operator Name:	KALEI BECKER	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No

CAL SKATE GT (Continued) **1027067429**

Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20210913
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: KALEI BECKER	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported

CAL SKATE GT (Continued) **1027067429**

Owner/Operator Address:	22080 COMMERCE WAY
Owner/Operator City,State,Zip:	GRAND TERRACE, CA 92313
Owner/Operator Telephone:	909-422-9565
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: CAL SKATE GT	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	22080 COMMERCE WAY
Owner/Operator City,State,Zip:	GRAND TERRACE, CA 92313
Owner/Operator Telephone:	909-422-9565
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20210913
Handler Name: CAL SKATE GT	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	713940
NAICS Description:	FITNESS AND RECREATIONAL SPORTS CENTERS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

E41 **STATER BROS MARKETS #188** **RCRA NonGen / NLR** **1024831542**
ESE **22201 BARTON RD** **CAL000368459**
< 1/8 **GRAND TERRACE, CA 92313**
0.080 mi.
423 ft. **Site 1 of 2 in cluster E**

Relative:
Higher

Actual:
1010 ft.

RCRA Listings:

Date Form Received by Agency:	20111020
Handler Name:	STATER BROS MARKETS #188
Handler Address:	22201 BARTON RD
Handler City,State,Zip:	GRAND TERRACE, CA 92313
EPA ID:	CAL000368459

STATER BROS MARKETS #188 (Continued) **1024831542**

Contact Name:		CHERYL SKALICKY
Contact Address:		301 S. TIPPECANOE AVE.
Contact City,State,Zip:		SAN BERNARDINO, CA 92408
Contact Telephone:		909-733-5288
Contact Fax:		909-733-4288
Contact Email:		CHERYL.SKALICKY@STATERBROS.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		PO BOX 150
Mailing City,State,Zip:		SAN BERNARDINO, CA 92402-0000
Owner Name:	STATER BROS MARKETS	
Owner Type:		Other
Operator Name:	CHERYL SKALICKY	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No

STATER BROS MARKETS #188 (Continued) **1024831542**

Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20180906
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: CHERYL SKALICKY	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	301 S. TIPPECANOE AVE.
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92408
Owner/Operator Telephone:	909-733-5288
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: STATER BROS MARKETS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	301 S TIPPECANOE AVE
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92408-0121
Owner/Operator Telephone:	909-733-5000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20111020
Handler Name: STATER BROS MARKETS #188	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No

STATER BROS MARKETS #188 (Continued) **1024831542**

Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 45291
NAICS Description: WAREHOUSE CLUBS AND SUPERCENTERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E42 **STATER BROS. MARKETS 188** **CERS HAZ WASTE** **S121309870**
ESE **22201 BARTON RD** **San Bern. Co. Permit** **N/A**
< 1/8 **GRAND TERRACE, CA 92313** **CERS**
0.080 mi.
423 ft. **Site 2 of 2 in cluster E**

Relative: Higher
Actual: 1010 ft.

CERS HAZ WASTE:
Name: STATER BROS. MARKETS 188
Address: 22201 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Site ID: 157023
CERS ID: 10312672
CERS Description: Hazardous Waste Generator

San Bern. Co. Permit:
Name: STATER BROS. MARKETS 188
Address: 22201 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0014128
Owner: STATER BROS. MARKETS
Permit Number: PT0024846
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status: ACTIVE
Expiration Date: 12/31/2022

Name: STATER BROS. MARKETS 188
Address: 22201 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0014128
Owner: STATER BROS. MARKETS
Permit Number: PT0031184
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 12/31/2022

CERS:
Name: STATER BROS. MARKETS 188

STATER BROS. MARKETS 188 (Continued) **S121309870**

Address: 22201 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Site ID: 157023
CERS ID: 10312672
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 157023
Site Name: Stater Bros. Markets 188
Violation Date: 10-14-2014
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 11/13/2014. Failure to label hazardous waste containers (CCR 66262.34(f)(3)) Observed waste oil storage tank with out hazardous waste label.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 157023
Site Name: Stater Bros. Markets 188
Violation Date: 10-14-2014
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes: Returned to compliance on 01/16/2015. Observed that inventory element of Business plan is not correct or complete
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-14-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-14-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-16-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported

STATER BROS. MARKETS 188 (Continued) **S121309870**

Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-17-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Stater Brothers #188
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-20-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-20-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-16-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 157023
Site Name: Stater Bros. Markets 188
Site Address: 22201 BARTON RD
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 10-14-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 157023
Site Name: Stater Bros. Markets 188
Site Address: 22201 BARTON RD

STATER BROS. MARKETS 188 (Continued) **S121309870**

Site City:	GRAND TERRACE
Site Zip:	92313
Enf Action Date:	10-14-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HW
Enf Action Source:	CERS,

Coordinates:

Site ID:	157023
Facility Name:	Stater Bros. Markets 188
Env Int Type Code:	HWG
Program ID:	10312672
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	34.032860
Longitude:	-117.320500

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,
Affiliation Type Desc:	Identification Signer
Entity Name:	Giovanna Moreno
Entity Title:	Environmental Health and Safety Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Property Owner
Entity Name:	Stater Bros. Markets
Entity Title:	Not reported
Affiliation Address:	P.O. Box 150
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92402
Affiliation Phone:	(909) 733-5000,
Affiliation Type Desc:	Legal Owner
Entity Name:	Stater Bros. Markets
Entity Title:	Not reported
Affiliation Address:	PO BOX 150
Affiliation City:	SAN BERNARDINO

STATER BROS. MARKETS 188 (Continued) **S121309870**

Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92402
Affiliation Phone:	(909) 733-5000,
Affiliation Type Desc:	Document Preparer
Entity Name:	Arianna Nunez
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Stater Bros. Markets 188
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 733-5000,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Giovanna Moreno
Entity Title:	Not reported
Affiliation Address:	P.O. Box 150
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92402
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	22201 BARTON RD
Affiliation City:	GRAND TERRACE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92313
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	Stater Bros. Markets
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

C43 **SAF-R-DIG UTILITY SURVEYS INC** **San Bern. Co. Permit** **S110326664**
SSW **12210 MICHIGAN AVE STE 24** **N/A**
< 1/8 **GRAND TERRACE, CA 92313**
0.093 mi.
493 ft. **Site 3 of 7 in cluster C**

Relative: **Lower**

Actual: **992 ft.**

San Bern. Co. Permit:

Name:	SAF-R-DIG UTILITY SURVEYS INC
Address:	12210 MICHIGAN AVE STE 24
City,State,Zip:	GRAND TERRACE, CA 92313
Region:	SAN BERNARDINO
Facility ID:	FA0013121
Owner:	SAF-R-DIG UTILITY SURVEYS INC
Permit Number:	PT0023075
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	04/30/2013

Name:	SAF-R-DIG UTILITY SURVEYS INC
Address:	12210 MICHIGAN AVE STE 24
City,State,Zip:	GRAND TERRACE, CA 92313
Region:	SAN BERNARDINO
Facility ID:	FA0013121
Owner:	SAF-R-DIG UTILITY SURVEYS INC
Permit Number:	PT0023074
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	04/30/2013

C44 **FILTER DISPOSAL SERVICE, INC** **RCRA NonGen / NLR** **1000401509**
SSW **12210 MICHIGAN AVE** **FINDS** **CAT982521734**
< 1/8 **GRAND TERRACE, CA 92324** **ECHO**
0.093 mi.
493 ft. **Site 4 of 7 in cluster C**

Relative: **Lower**

Actual: **992 ft.**

RCRA Listings:

Date Form Received by Agency:	19891026
Handler Name:	FILTER DISPOSAL SERVICE, INC
Handler Address:	12210 MICHIGAN AVE
Handler City,State,Zip:	GRAND TERRACE, CA 92324
EPA ID:	CAT982521734
Contact Name:	ENVIRONMENTAL MANAGER
Contact Address:	12210 MICHIGAN AVE
Contact City,State,Zip:	GRAND TERRACE, CA 92324
Contact Telephone:	714-783-8081
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Other
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	CA
State District:	4
Mailing Address:	P O BOX 4662
Mailing City,State,Zip:	RIVERSIDE, CA 92514
Owner Name:	SHAWN BENNETT

FILTER DISPOSAL SERVICE, INC (Continued) **1000401509**

Owner Type:		Private
Operator Name:	NOT REQUIRED	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		Yes
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:	Not reported	
Handler Date of Last Change:		20020627
Recognized Trader-Importer:		No
Recognized Trader-Exporter:		No
Importer of Spent Lead Acid Batteries:		No
Exporter of Spent Lead Acid Batteries:		No
Recycler Activity Without Storage:		Not reported
Manifest Broker:		Not reported

FILTER DISPOSAL SERVICE, INC (Continued) **1000401509**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: SHAWN BENNETT
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NOT REQUIRED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19891026
Handler Name: FILTER DISPOSAL SERVICE, INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110008296851

FILTER DISPOSAL SERVICE, INC (Continued) **1000401509**

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000401509
Registry ID:	110008296851
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110008296851
Name:	FILTER DISPOSAL SERVICE, INC
Address:	12210 MICHIGAN AVE
City,State,Zip:	GRAND TERRACE, CA 92324

C45 **EMIL MILLER FABRICATION INC** **NPDES** **S107448034**
SSW **12210 MICHIGAN ST STE 5** **San Bern. Co. Permit** **N/A**
< 1/8 **GRAND TERRACE, CA 92313**
0.093 mi.
493 ft. **Site 5 of 7 in cluster C**

Relative: **Lower**

Actual: **992 ft.**

NPDES:

Name:	EMIL MILLER FABRICATION INC
Address:	12210 MICHIGAN ST STE 5
City,State,Zip:	GRAND TERRACE, CA 92313
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	Not reported
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Returned
Status Date:	04/19/2022
Operator Name:	Emil Miller fabrication inc
Operator Address:	12210 Michigan st
Operator City:	Grand Terrace
Operator State:	California
Operator Zip:	92313

EMIL MILLER FABRICATION INC (Continued) **S107448034**

San Bern. Co. Permit:
Name: DIRT BAG RACING
Address: 12210 MICHIGAN AVE STE 11
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0010069
Owner: ZOLEZZI, JASON
Permit Number: PT0017210
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 11/30/2007

Name: DIRT BAG RACING
Address: 12210 MICHIGAN AVE STE 11
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0010069
Owner: ZOLEZZI, JASON
Permit Number: PT0017211
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 11/30/2007

C46 **EMIL MILLER FABRICATION** **San Bern. Co. Permit** **S109254299**
SSW **12210 MICHIGAN AVE STE 5** **N/A**
< 1/8 **GRAND TERRACE, CA 92313**
0.093 mi.
493 ft. **Site 6 of 7 in cluster C**

Relative:
Lower

Actual:
992 ft.

San Bern. Co. Permit:
Name: EMIL MILLER FABRICATION
Address: 12210 MICHIGAN AVE STE 5
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0002901
Owner: EMIL MILLER
Permit Number: PT0000527
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status: INACTIVE
Expiration Date: 08/31/2018

C47 **CYCLE PREP** **San Bern. Co. Permit** **S108536421**
SSW **12210 MICHIGAN ST UNIT #26** **N/A**
< 1/8 **GRAND TERRACE, CA 92313**
0.093 mi.
493 ft. **Site 7 of 7 in cluster C**

Relative:
Lower

Actual:
992 ft.

San Bern. Co. Permit:
Name: CYCLE PREP
Address: 12210 MICHIGAN ST UNIT #26
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0010905
Owner: MONTGOMERY, KEVIN
Permit Number: PT0018788
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL

CYCLE PREP (Continued) **S108536421**

Facility Status: INACTIVE
Expiration Date: 03/31/2022

Name: CYCLE PREP
Address: 12210 MICHIGAN ST UNIT #26
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0010905
Owner: MONTGOMERY, KEVIN
Permit Number: PT0038362
Permit Category: HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status: INACTIVE
Expiration Date: 03/31/2018

F48 **AUTOZONE #5614** **RCRA NonGen / NLR** **1024844383**
East **22203 BARTON RD** **CAL000396739**
< 1/8 **GRAND TERRACE, CA 92313**
0.102 mi.
537 ft. **Site 1 of 2 in cluster F**

Relative: **Higher**
Actual: **1014 ft.**

RCRA Listings:

Date Form Received by Agency:		20140513
Handler Name:	AUTOZONE #5614	
Handler Address:		22203 BARTON RD
Handler City,State,Zip:		GRAND TERRACE, CA 92313
EPA ID:		CAL000396739
Contact Name:		BRYAN BLAIR
Contact Address:		DEPT 8190, 123 SOUTH FRONT STREET
Contact City,State,Zip:		MEMPHIS, TN 38103
Contact Telephone:		901-495-7217
Contact Fax:		901-495-8399
Contact Email:		BRYAN.BLAIR@AUTOZONE.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		DEPT 8190, 123 S FRONT ST
Mailing City,State,Zip:		MEMPHIS, TN 38103-3607
Owner Name:	AUTO ZONE CORPORTATION	
Owner Type:		Other
Operator Name:	BRYAN BLAIR	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No

AUTOZONE #5614 (Continued) **1024844383**

Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20180906
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: AUTO ZONE CORPORTATION	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	123 S FRONT ST
Owner/Operator City,State,Zip:	MEMPHIS, TN 38103-3607
Owner/Operator Telephone:	901-495-6500
Owner/Operator Telephone Ext:	Not reported

AUTOZONE #5614 (Continued) **1024844383**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: BRYAN BLAIR
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: DEPT 8190, 123 SOUTH FRONT STREET
Owner/Operator City,State,Zip: MEMPHIS, TN 38103
Owner/Operator Telephone: 901-495-7217
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20140513
Handler Name: AUTOZONE #5614
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 45299
NAICS Description: ALL OTHER GENERAL MERCHANDISE STORES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

F49 **AUTOZONE #5614** **CERS HAZ WASTE** **S117896919**
East **22203 BARTON RD** **HAZNET** **N/A**
< 1/8 **GRAND TERRACE, CA 92313** **San Bern. Co. Permit**
0.102 mi. **CERS**
537 ft. **Site 2 of 2 in cluster F** **HWTS**

Relative: Higher
Actual: 1014 ft.

CERS HAZ WASTE:
Name: AUTOZONE #5614
Address: 22203 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Site ID: 387249
CERS ID: 10503589
CERS Description: Hazardous Waste Generator

HAZNET:

AUTOZONE #5614 (Continued) **S117896919**

Name:	AUTOZONE #5614
Address:	22203 BARTON RD
Address 2:	Not reported
City,State,Zip:	GRAND TERRACE, CA 92313
Contact:	BRYAN BLAIR
Telephone:	9014957217
Mailing Name:	Not reported
Mailing Address:	DEPT 8190 123 SOUTH FRONT STREET
Year:	2021
Gepaid:	CAL000396739
TSD EPA ID:	CAD008364432
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.032
Year:	2021
Gepaid:	CAL000396739
TSD EPA ID:	CAD008364432
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0075
Year:	2021
Gepaid:	CAL000396739
TSD EPA ID:	CAD008364432
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0705
Year:	2021
Gepaid:	CAL000396739
TSD EPA ID:	CAT080013352
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.44619
Year:	2021
Gepaid:	CAL000396739
TSD EPA ID:	AZR000521146
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.405
Year:	2021
Gepaid:	CAL000396739
TSD EPA ID:	CAD008364432
CA Waste Code:	791 - Liquids with pH <= 2
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0055

AUTOZONE #5614 (Continued) **S117896919**

Year: 2021
Gepaid: CAL000396739
TSD EPA ID: CAD008364432
CA Waste Code: 122 - Alkaline solution without metals pH >= 12.5
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.001

Year: 2020
Gepaid: CAL000396739
TSD EPA ID: AZR000521146
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.13

Year: 2020
Gepaid: CAL000396739
TSD EPA ID: CAT080013352
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.0834

Year: 2020
Gepaid: CAL000396739
TSD EPA ID: CAD008364432
CA Waste Code: 181 - Other inorganic solid waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.004

Click this hyperlink while viewing on your computer to access
26 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2021
Gen EPA ID: CAL000396739

Shipment Date: 9/25/2020
Creation Date: 10/6/2020
Receipt Date: 10/2/2020
Manifest ID: 014381848FLE
Trans EPA ID: MNS000110924
Trans Name: Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008364432
Trans Name: Rho Chem LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D001,D005,D007,
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.01

AUTOZONE #5614 (Continued) **S117896919**

Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	9/25/2020
Creation Date:	10/6/2020
Receipt Date:	10/2/2020
Manifest ID:	014381848FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.002
Waste Quantity:	4
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	4/17/2020
Creation Date:	4/30/2020
Receipt Date:	4/29/2020
Manifest ID:	014385903FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.003
Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

AUTOZONE #5614 (Continued) **S117896919**

Shipment Date:	4/17/2020
Creation Date:	4/30/2020
Receipt Date:	4/29/2020
Manifest ID:	014385903FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.002
Waste Quantity:	4
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	4/17/2020
Creation Date:	4/30/2020
Receipt Date:	4/29/2020
Manifest ID:	014385903FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001,D005,D007,
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.008
Waste Quantity:	16
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	11/12/2020
Creation Date:	12/30/2020
Receipt Date:	11/23/2020
Manifest ID:	022493457JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	CAR000175422

AUTOZONE #5614 (Continued) **S117896919**

Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID:	AZR000521146
Trans Name:	YUMA YES 2 WASTE TRANSFER STATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.13
Waste Quantity:	260
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	11/12/2020
Creation Date:	12/10/2020
Receipt Date:	11/23/2020
Manifest ID:	022493458JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	WORLD OIL RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.0834
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2020
Gen EPA ID:	CAL000396739

Shipment Date:	9/25/2020
Creation Date:	10/6/2020
Receipt Date:	10/2/2020
Manifest ID:	014381848FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC

AUTOZONE #5614 (Continued) **S117896919**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001,D005,D007,
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	9/25/2020
Creation Date:	10/6/2020
Receipt Date:	10/2/2020
Manifest ID:	014381848FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.002
Waste Quantity:	4
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	4/17/2020
Creation Date:	4/30/2020
Receipt Date:	4/29/2020
Manifest ID:	014385903FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001,D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.003

AUTOZONE #5614 (Continued) **S117896919**

Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	4/17/2020
Creation Date:	4/30/2020
Receipt Date:	4/29/2020
Manifest ID:	014385903FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.002
Waste Quantity:	4
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	4/17/2020
Creation Date:	4/30/2020
Receipt Date:	4/29/2020
Manifest ID:	014385903FLE
Trans EPA ID:	MNS000110924
Trans Name:	Stericycle Specialty Waste Solutions Inc
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Rho Chem LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001,D005,D007,
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.008
Waste Quantity:	16
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

AUTOZONE #5614 (Continued) **S117896919**

Shipment Date:	11/12/2020
Creation Date:	12/10/2020
Receipt Date:	11/23/2020
Manifest ID:	022493458JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	WORLD OIL RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.0834
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	11/12/2020
Creation Date:	12/30/2020
Receipt Date:	11/23/2020
Manifest ID:	022493457JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID:	AZR000521146
Trans Name:	YUMA YES 2 WASTE TRANSFER STATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.13
Waste Quantity:	260
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Detail Two:

Year:	2020
EM Manifest ID:	3c62a641-fded-4883-bc91-4ef562987846
Shipment Date:	11/12/2020
Receipt Date:	11/23/2020
Manifest Number:	022493457JJK
Generator EPA ID:	CAL000396739

AUTOZONE #5614 (Continued) **S117896919**

Name:	AUTOZONE #5614
Address:	22203 BARTON RD
Address 2:	Not reported
City:	GRAND TERRACE
Zip:	92313
Telephone:	800-424-9300
Contact:	Not reported
Contact Telephone:	909-824-8690
Transporter 1 EPA ID:	CAD028277036
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000521146
TSDF Name:	YUMA YES 2 WASTE TRANSFER STATION
TSDF Address 1:	6500 S US HIGHWAY 95
TSDF Address 2:	Not reported
TSDF City:	YUMA
TSDF Zip:	85365
TSDF Telephone:	Not reported

State:

Year:	2020
EM Manifest ID:	3c62a641-fded-4883-bc91-4ef562987846
Generator EPA ID:	CAL000396739
Shipment Date:	2020-11-12
Manifest Number:	022493457JJK
Line Number:	1
Method Code:	H141
Quantity Tons:	0.13000
Quantity Waste:	260.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
State Code:	352

Detail Two:

Year:	2019
EM Manifest ID:	870982
Shipment Date:	11/4/2019
Receipt Date:	11/8/2019
Manifest Number:	013995484FLE
Generator EPA ID:	CAL000396739
Name:	AUTOZONE
Address:	22203 BARTON RD
Address 2:	Not reported
City:	GRAND TERRACE
Zip:	92313
Telephone:	877-577-2669
Contact:	Not reported
Contact Telephone:	323-776-6233
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MNS000110924
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432

AUTOZONE #5614 (Continued) **S117896919**

TSDF Name: Rho Chem LLC
TSDF Address 1: 425 Isis Ave.
TSDF Address 2: Not reported
TSDF City: Inglewood
TSDF Zip: 90301
TSDF Telephone: Not reported

Federal:
Year: 2019
EM Manifest ID: 870982
Generator EPA ID: CAL000396739
Shipment Date: 2019-11-04
Manifest Number: 013995484FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00650
Quantity Waste: 13.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D002

Year: 2019
EM Manifest ID: 870982
Generator EPA ID: CAL000396739
Shipment Date: 2019-11-04
Manifest Number: 013995484FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00200
Quantity Waste: 4.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D008

Year: 2019
EM Manifest ID: 870982
Generator EPA ID: CAL000396739
Shipment Date: 2019-11-04
Manifest Number: 013995484FLE
Line Number: 3
Method Code: H141
Quantity Tons: 0.00750
Quantity Waste: 15.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D001

Year: 2019
EM Manifest ID: 870982
Generator EPA ID: CAL000396739
Shipment Date: 2019-11-04
Manifest Number: 013995484FLE

AUTOZONE #5614 (Continued) **S117896919**

Line Number: 3
Method Code: H141
Quantity Tons: 0.00750
Quantity Waste: 15.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D005

Year: 2019
EM Manifest ID: 870982
Generator EPA ID: CAL000396739
Shipment Date: 2019-11-04
Manifest Number: 013995484FLE
Line Number: 3
Method Code: H141
Quantity Tons: 0.00750
Quantity Waste: 15.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D007

Year: 2019
EM Manifest ID: 870982
Generator EPA ID: CAL000396739
Shipment Date: 2019-11-04
Manifest Number: 013995484FLE
Line Number: 3
Method Code: H141
Quantity Tons: 0.00750
Quantity Waste: 15.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
Federal Code: D035

State:
Year: 2019
EM Manifest ID: 870982
Generator EPA ID: CAL000396739
Shipment Date: 2019-11-04
Manifest Number: 013995484FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00650
Quantity Waste: 13.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 122

Year: 2019

AUTOZONE #5614 (Continued) **S117896919**

EM Manifest ID:	870982
Generator EPA ID:	CAL000396739
Shipment Date:	2019-11-04
Manifest Number:	013995484FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00200
Quantity Waste:	4.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	181

Year:	2019
EM Manifest ID:	870982
Generator EPA ID:	CAL000396739
Shipment Date:	2019-11-04
Manifest Number:	013995484FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00750
Quantity Waste:	15.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	214

Year:	2019
EM Manifest ID:	714803
Shipment Date:	11/4/2019
Receipt Date:	11/11/2019
Manifest Number:	013995485FLE
Generator EPA ID:	CAL000396739
Name:	AUTOZONE #5614
Address:	22203 BARTON RD
Address 2:	Not reported
City:	GRAND TERRACE
Zip:	92313
Telephone:	877-577-2669
Contact:	Not reported
Contact Telephone:	901-495-7217
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000515924
TSDF Name:	YUMA YES WASTE TRANSFER FACILITY
TSDF Address 1:	2730 E 13TH ST
TSDF Address 2:	Not reported
TSDF City:	YUMA
TSDF Zip:	85365-1901
TSDF Telephone:	Not reported

State:

Year:	2019

AUTOZONE #5614 (Continued) **S117896919**

EM Manifest ID: 714803
Generator EPA ID: CAL000396739
Shipment Date: 2019-11-04
Manifest Number: 013995485FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00250
Quantity Waste: 5.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiber or plastic boxes, cartons, cases
Quantity Type: Pounds
State Code: 331

Year: 2019
EM Manifest ID: 250245
Shipment Date: 1/10/2019
Receipt Date: 1/24/2019
Manifest Number: 013041338FLE
Generator EPA ID: CAL000396739
Name: AUTOZONE
Address: 22203 BARTON RD
Address 2: Not reported
City: GRAND TERRACE
Zip: 92313
Telephone: 877-577-2669
Contact: Not reported
Contact Telephone: 323-776-6233
Transporter 1 EPA ID: MNS000110924
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MNS000110924
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: CAD008364432
TSDF Name: Rho Chem LLC
TSDF Address 1: 425 Isis Ave.
TSDF Address 2: Not reported
TSDF City: Inglewood
TSDF Zip: 90301
TSDF Telephone: Not reported

Federal:
Year: 2019
EM Manifest ID: 250245
Generator EPA ID: CAL000396739
Shipment Date: 2019-01-10
Manifest Number: 013041338FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.02100
Quantity Waste: 42.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Burlap, cloth, paper, or plastic bags
Quantity Type: Pounds
Federal Code: D002

Year: 2019

AUTOZONE #5614 (Continued) **S117896919**

EM Manifest ID:	250245
Generator EPA ID:	CAL000396739
Shipment Date:	2019-01-10
Manifest Number:	013041338FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.01350
Quantity Waste:	27.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
Federal Code:	D008

State:

Year:	2019
EM Manifest ID:	250245
Generator EPA ID:	CAL000396739
Shipment Date:	2019-01-10
Manifest Number:	013041338FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.02100
Quantity Waste:	42.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Burlap, cloth, paper, or plastic bags
Quantity Type:	Pounds
State Code:	122

Year:	2019
EM Manifest ID:	250245
Generator EPA ID:	CAL000396739
Shipment Date:	2019-01-10
Manifest Number:	013041338FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.01350
Quantity Waste:	27.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	181

Detail Two:

Year:	2018
EM Manifest ID:	010203365FLE20170913_D_1
Shipment Date:	9/13/2017
Receipt Date:	9/22/2017
Manifest Number:	010203365FLE
Generator EPA ID:	CAL000396739
Name:	AUTOZONE # 5614
Address:	Not reported
Address 2:	Not reported

AUTOZONE #5614 (Continued) **S117896919**

City:	Not reported
Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000217554
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	RHO CHEM LLC
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City:	Not reported
TSDF Zip:	Not reported
TSDF Telephone:	Not reported

Federal:

Year:	2018
EM Manifest ID:	010203365FLE20170913_D_1
Generator EPA ID:	CAL000396739
Shipment Date:	2017-09-13
Manifest Number:	010203365FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00200
Quantity Waste:	4.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D008

Year:	2018
EM Manifest ID:	010203365FLE20170913_D_1
Generator EPA ID:	CAL000396739
Shipment Date:	2017-09-13
Manifest Number:	010203365FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00350
Quantity Waste:	7.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001

Year:	2018
EM Manifest ID:	010203365FLE20170913_D_1
Generator EPA ID:	CAL000396739
Shipment Date:	2017-09-13
Manifest Number:	010203365FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00350
Quantity Waste:	7.000000
Quantity Unit:	P

AUTOZONE #5614 (Continued) **S117896919**

Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D005
Year:	2018
EM Manifest ID:	010203365FLE20170913_D_1
Generator EPA ID:	CAL000396739
Shipment Date:	2017-09-13
Manifest Number:	010203365FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00350
Quantity Waste:	7.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D007
Year:	2018
EM Manifest ID:	010203365FLE20170913_D_1
Generator EPA ID:	CAL000396739
Shipment Date:	2017-09-13
Manifest Number:	010203365FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00350
Quantity Waste:	7.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D035
Year:	2018
EM Manifest ID:	010203365FLE20170913_D_1
Generator EPA ID:	CAL000396739
Shipment Date:	2017-09-13
Manifest Number:	010203365FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00450
Quantity Waste:	9.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001
Year:	2018
EM Manifest ID:	010203365FLE20170913_D_1
Generator EPA ID:	CAL000396739
Shipment Date:	2017-09-13
Manifest Number:	010203365FLE
Line Number:	3
Method Code:	H141

AUTOZONE #5614 (Continued) **S117896919**

Quantity Tons: 0.00450
Quantity Waste: 9.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D035

State:
Year: 2018
EM Manifest ID: 010203365FLE20170913_D_1
Generator EPA ID: CAL000396739
Shipment Date: 2017-09-13
Manifest Number: 010203365FLE
Line Number: 1
Method Code: H141
Quantity Tons: 0.00200
Quantity Waste: 4.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 181

Year: 2018
EM Manifest ID: 010203365FLE20170913_D_1
Generator EPA ID: CAL000396739
Shipment Date: 2017-09-13
Manifest Number: 010203365FLE
Line Number: 2
Method Code: H141
Quantity Tons: 0.00350
Quantity Waste: 7.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 214

Year: 2018
EM Manifest ID: 010203365FLE20170913_D_1
Generator EPA ID: CAL000396739
Shipment Date: 2017-09-13
Manifest Number: 010203365FLE
Line Number: 3
Method Code: H141
Quantity Tons: 0.00450
Quantity Waste: 9.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 331

Year: 2018
EM Manifest ID: 011352209FLE20180207_D_1

AUTOZONE #5614 (Continued) **S117896919**

Shipment Date:	2/7/2018
Receipt Date:	2/16/2018
Manifest Number:	011352209FLE
Generator EPA ID:	CAL000396739
Name:	AUTOZONE # 5614
Address:	Not reported
Address 2:	Not reported
City:	Not reported
Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000217554
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD008364432
TSDF Name:	RHO CHEM LLC
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City:	Not reported
TSDF Zip:	Not reported
TSDF Telephone:	Not reported

Federal:

Year:	2018
EM Manifest ID:	011352209FLE20180207_D_1
Generator EPA ID:	CAL000396739
Shipment Date:	2018-02-07
Manifest Number:	011352209FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D008

Year:	2018
EM Manifest ID:	011352209FLE20180207_D_1
Generator EPA ID:	CAL000396739
Shipment Date:	2018-02-07
Manifest Number:	011352209FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00200
Quantity Waste:	4.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D002

Year:	2018
EM Manifest ID:	011352209FLE20180207_D_1
Generator EPA ID:	CAL000396739

AUTOZONE #5614 (Continued) **S117896919**

Shipment Date:	2018-02-07
Manifest Number:	011352209FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00850
Quantity Waste:	17.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001
Year:	2018
EM Manifest ID:	011352209FLE20180207_D_1
Generator EPA ID:	CAL000396739
Shipment Date:	2018-02-07
Manifest Number:	011352209FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00850
Quantity Waste:	17.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D005
Year:	2018
EM Manifest ID:	011352209FLE20180207_D_1
Generator EPA ID:	CAL000396739
Shipment Date:	2018-02-07
Manifest Number:	011352209FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00850
Quantity Waste:	17.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D007
Year:	2018
EM Manifest ID:	011352209FLE20180207_D_1
Generator EPA ID:	CAL000396739
Shipment Date:	2018-02-07
Manifest Number:	011352209FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00850
Quantity Waste:	17.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D035

AUTOZONE #5614 (Continued) **S117896919**

State:

Year:	2018
EM Manifest ID:	011352209FLE20180207_D_1
Generator EPA ID:	CAL000396739
Shipment Date:	2018-02-07
Manifest Number:	011352209FLE
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00050
Quantity Waste:	1.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	181

Year:	2018
EM Manifest ID:	011352209FLE20180207_D_1
Generator EPA ID:	CAL000396739
Shipment Date:	2018-02-07
Manifest Number:	011352209FLE
Line Number:	2
Method Code:	H141
Quantity Tons:	0.00200
Quantity Waste:	4.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	122

Year:	2018
EM Manifest ID:	011352209FLE20180207_D_1
Generator EPA ID:	CAL000396739
Shipment Date:	2018-02-07
Manifest Number:	011352209FLE
Line Number:	3
Method Code:	H141
Quantity Tons:	0.00850
Quantity Waste:	17.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	NULL
Quantity Type:	NULL
State Code:	214

Additional Info:

Year:	2017
Gen EPA ID:	CAL000396739
Shipment Date:	20170913
Creation Date:	6/26/2018 18:30:39
Receipt Date:	20170922
Manifest ID:	010203365FLE
Trans EPA ID:	MNS000110924

AUTOZONE #5614 (Continued) **S117896919**

Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0035
Waste Quantity:	7
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D005
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170913
Creation Date:	6/26/2018 18:30:39
Receipt Date:	20170922
Manifest ID:	010203365FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.002
Waste Quantity:	4
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170913
Creation Date:	6/26/2018 18:30:39
Receipt Date:	20170922
Manifest ID:	010203365FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

AUTOZONE #5614 (Continued) **S117896919**

Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0045
Waste Quantity:	9
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170320
Creation Date:	5/19/2017 18:30:53
Receipt Date:	20170327
Manifest ID:	009252567FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0015
Waste Quantity:	3
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D005
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170320
Creation Date:	5/19/2017 18:30:53
Receipt Date:	20170327
Manifest ID:	009252567FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P

AUTOZONE #5614 (Continued) **S117896919**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170320
Creation Date:	5/19/2017 18:30:53
Receipt Date:	20170327
Manifest ID:	009252567FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2016
Gen EPA ID:	CAL000396739
Shipment Date:	20151005
Creation Date:	1/11/2016 22:15:53
Receipt Date:	20151008
Manifest ID:	001128256PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.007
Waste Quantity:	14
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

AUTOZONE #5614 (Continued) **S117896919**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151005
Creation Date:	1/11/2016 22:15:53
Receipt Date:	20151008
Manifest ID:	001128256PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0055
Waste Quantity:	11
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151005
Creation Date:	1/11/2016 22:15:53
Receipt Date:	20151008
Manifest ID:	001128256PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.009
Waste Quantity:	18
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D005
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150821
Creation Date:	10/14/2015 22:15:09
Receipt Date:	20150827
Manifest ID:	001094046PSC
Trans EPA ID:	CAD008364432

AUTOZONE #5614 (Continued) **S117896919**

Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150821
Creation Date:	10/14/2015 22:15:09
Receipt Date:	20150827
Manifest ID:	001094046PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0015
Waste Quantity:	3
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150821
Creation Date:	10/14/2015 22:15:09
Receipt Date:	20150827
Manifest ID:	001094046PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture

AUTOZONE #5614 (Continued) **S117896919**

RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.003
Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D005
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150616
Creation Date:	9/22/2015 22:15:49
Receipt Date:	20150622
Manifest ID:	001044532PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0145
Waste Quantity:	29
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150616
Creation Date:	9/22/2015 22:15:49
Receipt Date:	20150622
Manifest ID:	001044532PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.002
Waste Quantity:	4
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D005

AUTOZONE #5614 (Continued) **S117896919**

Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150420
Creation Date:	8/21/2015 22:15:38
Receipt Date:	20150424
Manifest ID:	001004077PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.027
Waste Quantity:	54
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150420
Creation Date:	8/21/2015 22:15:38
Receipt Date:	20150424
Manifest ID:	001004077PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0105
Waste Quantity:	21
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAL000396739

AUTOZONE #5614 (Continued) **S117896919**

Shipment Date:	20151005
Creation Date:	1/11/2016 22:15:53
Receipt Date:	20151008
Manifest ID:	001128256PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.007
Waste Quantity:	14
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20151005
Creation Date:	1/11/2016 22:15:53
Receipt Date:	20151008
Manifest ID:	001128256PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0055
Waste Quantity:	11
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20151005
Creation Date:	1/11/2016 22:15:53
Receipt Date:	20151008
Manifest ID:	001128256PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP

AUTOZONE #5614 (Continued) **S117896919**

TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.009
Waste Quantity:	18
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D005
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150821
Creation Date:	10/14/2015 22:15:09
Receipt Date:	20150827
Manifest ID:	001094046PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0015
Waste Quantity:	3
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150821
Creation Date:	10/14/2015 22:15:09
Receipt Date:	20150827
Manifest ID:	001094046PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site

AUTOZONE #5614 (Continued) **S117896919**

Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150821
Creation Date:	10/14/2015 22:15:09
Receipt Date:	20150827
Manifest ID:	001094046PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.003
Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D005
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150616
Creation Date:	9/22/2015 22:15:49
Receipt Date:	20150622
Manifest ID:	001044532PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.002
Waste Quantity:	4
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D005
Additional Code 3:	D001
Additional Code 4:	Not reported

AUTOZONE #5614 (Continued) **S117896919**

Additional Code 5:	Not reported
Shipment Date:	20150616
Creation Date:	9/22/2015 22:15:49
Receipt Date:	20150622
Manifest ID:	001044532PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0145
Waste Quantity:	29
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150420
Creation Date:	8/21/2015 22:15:38
Receipt Date:	20150424
Manifest ID:	001004077PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0105
Waste Quantity:	21
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150420
Creation Date:	8/21/2015 22:15:38
Receipt Date:	20150424
Manifest ID:	001004077PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC

AUTOZONE #5614 (Continued) **S117896919**

Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.027
Waste Quantity:	54
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

San Bern. Co. Permit:

Name:	AUTOZONE #5614
Address:	22203 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Region:	SAN BERNARDINO
Facility ID:	FA0016022
Owner:	AutoZone Stores Inc
Permit Number:	PT0034737
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	05/31/2023

Name:	AUTOZONE #5614
Address:	22203 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Region:	SAN BERNARDINO
Facility ID:	FA0016022
Owner:	AutoZone Stores Inc
Permit Number:	PT0034738
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	05/31/2023

CERS:

Name:	AUTOZONE #5614
Address:	22203 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Site ID:	387249
CERS ID:	10503589
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	387249
Site Name:	AutoZone #5614
Violation Date:	02-20-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material

AUTOZONE #5614 (Continued) **S117896919**

inventory information for all reportable hazardous materials on site at or above reportable quantities.

Violation Notes: Returned to compliance on 02/21/2019. OBSERVATION: Observed on site (2) 55 gallon drums of waste oily absorbent, (1) 55 gallon drum of drained used oil filters, (1) 220 gallon used oil container which were not reported on CERS. CORRECTIVE ACTION: Submit an accurate and complete hazardous materials inventory via CERS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTION OF AUTOZONE #5614 IN COLTON.
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-20-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-16-2022
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-16-2022
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-20-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

AUTOZONE #5614 (Continued) **S117896919**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTION OF AUTOZONE #5614 IN COLTON.
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Coordinates:
Site ID: 387249
Facility Name: AutoZone #5614
Env Int Type Code: HMBP
Program ID: 10503589
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 34.033850
Longitude: -117.319670

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Deborah Williams
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: Dept 8190, 123 South Front St
Affiliation City: Memphis
Affiliation State: TN
Affiliation Country: Not reported
Affiliation Zip: 38103
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: AutoZone Stores Inc
Entity Title: Not reported
Affiliation Address: 123 South Front Street
Affiliation City: Memphis
Affiliation State: TN
Affiliation Country: United States
Affiliation Zip: 38103
Affiliation Phone: (901) 495-6500,

Affiliation Type Desc: Environmental Contact
Entity Name: Andrew Beaven
Entity Title: Not reported
Affiliation Address: Dept 8190, 123 South Front Street
Affiliation City: Memphis
Affiliation State: TN

AUTOZONE #5614 (Continued) **S117896919**

Affiliation Country: Not reported
Affiliation Zip: 38103
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation
Entity Name: Auto Zone
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401,

Affiliation Type Desc: Identification Signer
Entity Name: Deborah Williams
Entity Title: Environmental Coordinator
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Autozone
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 881-5788,

Affiliation Type Desc: Property Owner
Entity Name: AUTOZONE DEVELOPMENT CORPORATION
Entity Title: Not reported
Affiliation Address: 123 South Front Street
Affiliation City: MEMPHIS
Affiliation State: TN
Affiliation Country: United States
Affiliation Zip: 38101
Affiliation Phone: (901) 495-6500,

HWTS:
Name: AUTOZONE #5614

AUTOZONE #5614 (Continued) **S117896919**

Address:	22203 BARTON RD
Address 2:	Not reported
City,State,Zip:	GRAND TERRACE, CA 92313
EPA ID:	CAL000396739
Inactive Date:	Not reported
Create Date:	05/13/2014
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	DEPT 8190, 123 SOUTH FRONT STREET
Mailing Address 2:	Not reported
Mailing City,State,Zip:	MEMPHIS, TN 38103
Owner Name:	AUTOZONE INC
Owner Address:	123 SOUTH FRONT ST
Owner Address 2:	Not reported
Owner City,State,Zip:	MEMPHIS, TN 381033607
Contact Name:	BRYAN BLAIR
Contact Address:	DEPT 8190, 123 SOUTH FRONT STREET
Contact Address 2:	Not reported
City,State,Zip:	MEMPHIS, TN 38103
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.033176
Longitude:	-117.3213

NAICS:

EPA ID:	CAL000396739
Create Date:	2014-05-13 16:10:20.040
NAICS Code:	45299
NAICS Description:	All Other General Merchandise Stores
Issued EPA ID Date:	2014-05-13 16:10:20.04000
Inactive Date:	Not reported
Facility Name:	AUTOZONE #5614
Facility Address:	22203 BARTON RD
Facility Address 2:	Not reported
Facility City:	GRAND TERRACE
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92313

D50 **ONESOURCE DISTRIBUTORS, LLC** **San Bern. Co. Permit** **S110169004**
WSW **22075 COMMERCE WAY** **N/A**
1/8-1/4 **GRAND TERRACE, CA 92313**
0.127 mi.
672 ft. **Site 4 of 4 in cluster D**

Relative:
Lower

Actual:
980 ft.

San Bern. Co. Permit:

Name:	ONESOURCE DISTRIBUTORS, LLC
Address:	22075 COMMERCE WAY
City,State,Zip:	GRAND TERRACE, CA 92313
Region:	SAN BERNARDINO
Facility ID:	FA0013049
Owner:	ONESOURCE DISTRIBUTORS, LLC
Permit Number:	PT0022945
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status:	INACTIVE
Expiration Date:	03/31/2018

51
WSW
1/8-1/4
0.154 mi.
812 ft.

SUPERIOR POOL PROD LLC
22060 COMMERCE WAY
GRAND TERRACE, CA 92313

San Bern. Co. Permit **S104770825**
N/A

Relative:
Lower

Actual:
979 ft.

San Bern. Co. Permit:

Name:	SUPERIOR POOL PROD LLC
Address:	22060 COMMERCE WAY
City,State,Zip:	GRAND TERRACE, CA 92313
Region:	SAN BERNARDINO
Facility ID:	FA0006543
Owner:	SCP POOL CORPORATION
Permit Number:	PT0009589
Permit Category:	HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status:	INACTIVE
Expiration Date:	09/30/2013

Name:	SUPERIOR POOL PROD LLC
Address:	22060 COMMERCE WAY
City,State,Zip:	GRAND TERRACE, CA 92313
Region:	SAN BERNARDINO
Facility ID:	FA0006543
Owner:	SCP POOL CORPORATION
Permit Number:	PT0016280
Permit Category:	EPCRA FACILITY
Facility Status:	INACTIVE
Expiration Date:	09/30/2013

G52
East
1/8-1/4
0.161 mi.
850 ft.

FRITZ LAWNMOWER
22257 BARTON RD
GRAND TERRACE, CA 92324

Site 1 of 2 in cluster G

San Bern. Co. Permit **S124765863**
HWTS **N/A**

Relative:
Higher

Actual:
1020 ft.

San Bern. Co. Permit:

Name:	MCDONALD'S OF GRAND TERRACE #37134
Address:	22257 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Region:	SAN BERNARDINO
Facility ID:	FA0019141
Owner:	CH Partners, LLC
Permit Number:	PT0041214
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status:	ACTIVE
Expiration Date:	05/31/2023

HWTS:

Name:	FRITZ LAWNMOWER
Address:	22257 BARTON RD
Address 2:	Not reported
City,State,Zip:	GRAND TERRACE, CA 92324
EPA ID:	CAL000018094
Inactive Date:	01/01/1995
Create Date:	11/14/1989
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	22257 BARTON RD
Mailing Address 2:	Not reported

FRITZ LAWNMOWER (Continued) **S124765863**

Mailing City,State,Zip:	GRAND TERRACE, CA 923240000
Owner Name:	GLENN CURTIS
Owner Address:	Not reported
Owner Address 2:	Not reported
Owner City,State,Zip:	Not reported
Contact Name:	UNDELIVERABLE SURVEY 2-21-95LC
Contact Address:	Not reported
Contact Address 2:	Not reported
City,State,Zip:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.051998
Longitude:	-117.27814

G53 **GRAND TERRACE PROPERTY** **RCRA NonGen / NLR** **1027210923**
East **22300 BARTON RD** **CAC003175304**
1/8-1/4 **GRAND TERRACE, CA 92313**
0.211 mi.
1114 ft. **Site 2 of 2 in cluster G**

Relative: **Higher**

Actual: **1023 ft.**

RCRA Listings:

Date Form Received by Agency:	20220510
Handler Name:	GRAND TERRACE PROPERTY
Handler Address:	22300 BARTON RD
Handler City,State,Zip:	GRAND TERRACE, CA 92313
EPA ID:	CAC003175304
Contact Name:	GOLDEN STAR INVESTMENT PROPERTIES
Contact Address:	4040 MACARTHUR BLVD
Contact City,State,Zip:	NEWPORT BEACH, CA 92660
Contact Telephone:	714-726-7004
Contact Fax:	Not reported
Contact Email:	INFO@HLEDEMO.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	22300 BARTON RD
Mailing City,State,Zip:	GRAND TERRACE, CA 92313
Owner Name:	GOLDEN STAR INVESTMENT PROPERTIES
Owner Type:	Other
Operator Name:	GOLDEN STAR INVESTMENT PROPERTIES
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No

GRAND TERRACE PROPERTY (Continued) **1027210923**

Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20220511
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOLDEN STAR INVESTMENT PROPERTIES
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	22300 BARTON RD
Owner/Operator City,State,Zip:	GRAND TERRACE, CA 92313
Owner/Operator Telephone:	714-726-7004

GRAND TERRACE PROPERTY (Continued) **1027210923**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: GOLDEN STAR INVESTMENT PROPERTIES
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4040 MACARTHUR BLVD
Owner/Operator City,State,Zip: NEWPORT BEACH, CA 92660
Owner/Operator Telephone: 714-726-7004
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20220510
Handler Name: GRAND TERRACE PROPERTY
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

H54 **ANIMAL EMERGENCY CLINIC** **San Bern. Co. Permit** **S105974274**
West **12022 LA CROSSE AVE** **N/A**
1/8-1/4 **GRAND TERRACE, CA 92313**
0.214 mi.
1128 ft. **Site 1 of 2 in cluster H**

Relative:
Lower

Actual:
982 ft.

San Bern. Co. Permit:
Name: ANIMAL EMERGENCY CLINIC
Address: 12022 LA CROSSE AVE
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0000964
Owner: ANIMAL EMERGENCY CLINIC
Permit Number: PT0007896
Permit Category: SPECIAL GENERATOR

ANIMAL EMERGENCY CLINIC (Continued) **S105974274**

Facility Status: INACTIVE
Expiration Date: 04/30/2008

Name: ANIMAL EMERGENCY CLINIC
Address: 12022 LA CROSSE AVE
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0000964
Owner: ANIMAL EMERGENCY CLINIC
Permit Number: PT0007897
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 04/30/2008

H55 **AUTO DIAGNOSTICS SERVICES** **San Bern. Co. Permit** **S109598400**
West **12028 LA CROSSE AVE** **N/A**
1/8-1/4 **GRAND TERRACE, CA 92313**
0.215 mi.
1133 ft. **Site 2 of 2 in cluster H**

Relative: San Bern. Co. Permit:
Lower
Name: AUTO DIAGNOSTICS SERVICES
Actual: Address: 12028 LA CROSSE AVE
982 ft. City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0012191
Owner: Tom Engelsman
Permit Number: PT0021483
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/2018

Name: AUTO DIAGNOSTICS SERVICES
Address: 12028 LA CROSSE AVE
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0012191
Owner: Tom Engelsman
Permit Number: PT0021482
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 04/30/2018

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56 **PINGKHAM RATTANBABPHA** **RCRA NonGen / NLR** **1024770621**
NE **22251 CARHART AVE** **CAC002990526**
1/8-1/4 **GRAND TERRACE, CA 92313**
0.233 mi.
1229 ft.

Relative: RCRA Listings:
Higher
Date Form Received by Agency: 20181127
Actual: Handler Name: PINGKHAM RATTANBABPHA
1028 ft. Handler Address: 22251 CARHART AVE
Handler City,State,Zip: GRAND TERRACE, CA 92313
EPA ID: CAC002990526
Contact Name: PINGKHAM RATTANBABPHA

PINGKHAM RATTANBABPHA (Continued) **1024770621**

Contact Address:		22251 CARHART AVE
Contact City,State,Zip:		GRAND TERRACE, CA 92313
Contact Telephone:		951-662-5506
Contact Fax:		Not reported
Contact Email:		KC@AQHIINC.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		22251 CARHART AVE
Mailing City,State,Zip:		GRAND TERRACE, CA 92313
Owner Name:	PINGKHAM RATTANBABPHA	
Owner Type:		Other
Operator Name:	PINGKHAM RATTANBABPHA	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking

PINGKHAM RATTANBABPHA (Continued) **1024770621**

Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20181220
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: PINGKHAM RATTANBABPHA	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	22251 CARHART AVE
Owner/Operator City,State,Zip:	GRAND TERRACE, CA 92313
Owner/Operator Telephone:	951-662-5506
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: PINGKHAM RATTANBABPHA	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	22251 CARHART AVE
Owner/Operator City,State,Zip:	GRAND TERRACE, CA 92313
Owner/Operator Telephone:	951-662-5506
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20181127
Handler Name: PINGKHAM RATTANBABPHA	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

PINGKHAM RATTANBABPHA (Continued) **1024770621**

Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

I57 **SUPER CLEANERS** **DRYCLEANERS** **S104905457**
ENE **22310 BARTON RD** **N/A**
1/8-1/4 **GRAND TERRACE, CA 92313**
0.244 mi.
1287 ft. **Site 1 of 7 in cluster I**

Relative:
Higher

Actual:
1028 ft.

DRYCLEANERS:
Name: SUPER CLEANERS
Address: 22310 BARTON RD STE F
City,State,Zip: GRAND TERRACE, CA 92313
EPA Id: CAL000303881
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 02/27/2006
Facility Active: Yes
Inactive Date: Not reported
Facility Addr2: Not reported
Owner Name: MARIANO HURTADO
Owner Address: 11633 LUGO PARK AVE
Owner Address 2: Not reported
Owner Telephone: 3109207047
Contact Name: AMANDA SOSA
Contact Address: 2975 LINCOLN DR
Contact Address 2: Not reported
Contact Telephone: 9098258110
Contact Fax: 9094220571
Mailing Name: Not reported
Mailing Address 1: 22310 BARTON RD STE F
Mailing Address 2: Not reported
Mailing City: GRAND TERRACE
Mailing State: CA
Mailing Zip: 923135039
Owner Fax: Not reported
Region Code: 4
Latitude: 34.033871
Longitude: -117.317764

DRYCLEAN SOUTH COAST:
Name: SUPER CLEANERS

SUPER CLEANERS (Continued) **S104905457**

Address:	22310 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Facility ID:	122324
Application Number:	366881
Permit Number:	F28324
Status:	A
Representative Name:	AMANDA SOSA
Representative Telephone:	310 6385001
Permit Status:	INACTIVE
BCAT Number:	000603
BCAT Description:	DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	470.62701416
UTM North:	3765.7709961
Application Date:	03/06/2000
PO Issue Date:	04/27/2000
NAICS Code:	812320
SIC Code:	7216

Name:	SUPER CLEANERS
Address:	22310 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Facility ID:	122324
Application Number:	466515
Permit Number:	F88584
Status:	A
Representative Name:	AMANDA SOSA
Representative Telephone:	310 6385001
Permit Status:	INACTIVE
BCAT Number:	000603
BCAT Description:	DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	470.62701416
UTM North:	3765.7709961
Application Date:	03/14/2007
PO Issue Date:	03/28/2007
NAICS Code:	812320
SIC Code:	7216

Name:	SUPER CLEANERS
Address:	22310 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92313
Facility ID:	122324
Application Number:	571488
Permit Number:	G34907
Status:	A
Representative Name:	AMANDA SOSA
Representative Telephone:	310 6385001
Permit Status:	ACTIVE
BCAT Number:	000233
BCAT Description:	DRY CLEANING EQUIP PETROLEUM SOLVENT
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	470.62701416
UTM North:	3765.7709961

SUPER CLEANERS (Continued) **S104905457**

Application Date:	01/08/2015
PO Issue Date:	03/12/2015
NAICS Code:	812320
SIC Code:	7216

I58 **SUPER CLEANERS** **RCRA NonGen / NLR** **1024813393**
ENE **22310 BARTON RD STE F** **CAL000303881**
1/8-1/4 **GRAND TERRACE, CA 92313**
0.244 mi.
1287 ft. **Site 2 of 7 in cluster I**

Relative: **Higher**
Actual: **1028 ft.**

RCRA Listings:

Date Form Received by Agency:		20060227
Handler Name:	SUPER CLEANERS	
Handler Address:		22310 BARTON RD STE F
Handler City,State,Zip:		GRAND TERRACE, CA 92313
EPA ID:		CAL000303881
Contact Name:		AMANDA SOSA
Contact Address:		2975 LINCOLN DR
Contact City,State,Zip:		SAN BERNARDINO, CA 92405
Contact Telephone:		909-825-8110
Contact Fax:		909-422-0571
Contact Email:		AMANDA_SOSA@HOTMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		22310 BARTON RD STE F
Mailing City,State,Zip:		GRAND TERRACE, CA 92313-5039
Owner Name:	MARIANO HURTADO	
Owner Type:		Other
Operator Name:	AMANDA SOSA	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N

SUPER CLEANERS (Continued) **1024813393**

Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: MARIANO HURTADO	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	11633 LUGO PARK AVE
Owner/Operator City,State,Zip:	LYNWOOD, CA 90262-0000
Owner/Operator Telephone:	310-920-7047
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: AMANDA SOSA	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2975 LINCOLN DR

SUPER CLEANERS (Continued) **1024813393**

Owner/Operator City,State,Zip: SAN BERNARDINO, CA 92405
Owner/Operator Telephone: 909-825-8110
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20060227
Handler Name: SUPER CLEANERS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

NAICS Code: 81232
NAICS Description: DRYCLEANING AND LAUNDRY SERVICES (EXCEPT COIN-OPERATED)

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

I59 **SUPER CLEANERS** **RCRA-SQG** **1000598246**
ENE **22310 BARTON RD** **FINDS** **CAD983622945**
1/8-1/4 **GRAND TERRACE, CA 92313** **ECHO**
0.244 mi.
1287 ft. **Site 3 of 7 in cluster I**

Relative: **Higher**
Actual: **1028 ft.**

RCRA Listings:
Date Form Received by Agency: 20000509
Handler Name: SUPER CLEANERS
Handler Address: 22310 BARTON RD
Handler City,State,Zip: GRAND TERRACE, CA 92313
EPA ID: CAD983622945
Contact Name: AMANDA SOSA
Contact Address: 22310 BARTON RD
Contact City,State,Zip: GRAND TERRACE, CA 92313
Contact Telephone: 909-825-8110
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 09
Land Type: Private
Federal Waste Generator Description: Small Quantity Generator

SUPER CLEANERS (Continued) **1000598246**

Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		22310 BARTON RD
Mailing City,State,Zip:		GRAND TERRACE, CA 92313
Owner Name:	AMANDA SOSA	
Owner Type:		Private
Operator Name:	Not reported	
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No

SUPER CLEANERS (Continued) **1000598246**

Significant Non-Complier With a Compliance Schedule Universe: No
Financial Assurance Required: Not reported
Handler Date of Last Change: 20021007
Recognized Trader-Importer: No
Recognized Trader-Exporter: No
Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: Not reported
Manifest Broker: Not reported
Sub-Part P Indicator: No

Hazardous Waste Summary:
Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: AMANDA SOSA
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 22310 BARTON RD
Owner/Operator City,State,Zip: GRAND TERRACE, CA 92313
Owner/Operator Telephone: 909-821-8110
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20000509
Handler Name: SUPER CLEANERS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 81232
NAICS Description: DRYCLEANING AND LAUNDRY SERVICES (EXCEPT COIN-OPERATED)

SUPER CLEANERS (Continued) **1000598246**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002871036

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000598246
Registry ID: 110002871036
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002871036
Name: SUPER CLEANERS
Address: 22310 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313

I60 **SUPER CLEANERS** **CERS HAZ WASTE** **S121700098**
ENE **22310 BARTON RD F** **DRYCLEANERS** **N/A**
1/8-1/4 **GRAND TERRACE, CA 92313** **CERS**
0.244 mi.
1287 ft. **Site 4 of 7 in cluster I**

Relative: Higher
Actual: 1028 ft.

CERS HAZ WASTE:
Name: SUPER CLEANERS
Address: 22310 BARTON RD F
City,State,Zip: GRAND TERRACE, CA 92313
Site ID: 158213
CERS ID: 10045318
CERS Description: Hazardous Waste Generator

DRYCLEAN SOUTH COAST:
Name: HERITAGE CLEANERS
Address: 22310 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92324
Facility ID: 88104
Application Number: 255787
Permit Number: D43401
Status: S
Representative Name: FRANK WEINER
Representative Telephone: 818 8848446
Permit Status: INACT_NR

SUPER CLEANERS (Continued) **S121700098**

BCAT Number: 000234
BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number: 04
CCAT Description: VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East: 470.8999939
UTM North: 3765.8000488
Application Date: 09/05/1991
PO Issue Date: 09/25/1991
NAICS Code: 812320
SIC Code: 7216

CERS:
Name: SUPER CLEANERS
Address: 22310 BARTON RD F
City,State,Zip: GRAND TERRACE, CA 92313
Site ID: 158213
CERS ID: 10045318
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 158213
Site Name: SUPER CLEANERS
Violation Date: 09-26-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 10/11/2016. Failure to retain Hazardous Waste Manifests for at least 3 years (CCR 66262.40(a))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 158213
Site Name: SUPER CLEANERS
Violation Date: 09-21-2021
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 11/24/2021. OBSERVATION: At the time of inspection, business ownership changed and had not been updated via CERS. CORRECTIVE ACTION: Submit an accurate and complete Hazardous Materials Business Plan via CERS within 30 days of inspection. CERS ID # 10045318
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 158213
Site Name: SUPER CLEANERS
Violation Date: 09-26-2016

SUPER CLEANERS (Continued) **S121700098**

Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 07/29/2019.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 158213
Site Name: SUPER CLEANERS
Violation Date: 06-28-2019
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 07/29/2019. OBSERVATION: Business plan was last reviewed and certified on 1/11/17. CORRECTIVE ACTION: Review and certify the business plan via CERS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 158213
Site Name: SUPER CLEANERS
Violation Date: 09-21-2021
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 11/03/2021. OBSERVATION: At the time of inspection, the generator has not obtained an active EPA ID number with the Department of Toxic Substance Control (DTSC) to manage hazardous waste. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an active EPA ID number. CORRECTIVE ACTION: Obtain a permanent EPA ID number by submitting form 1358 to the DTSC within 30 days of inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-28-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-26-2016

SUPER CLEANERS (Continued) **S121700098**

Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Routine inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-28-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-01-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Facility is a CESQG
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-21-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-26-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Routine inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-01-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Super Cleaners made CERS Submission
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-21-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported

SUPER CLEANERS (Continued) **S121700098**

Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 158213
Site Name: SUPER CLEANERS
Site Address: 22310 BARTON RD F
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 09-26-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 158213
Site Name: SUPER CLEANERS
Site Address: 22310 BARTON RD F
Site City: GRAND TERRACE
Site Zip: 92313
Enf Action Date: 09-26-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 22310 Barton Road Unit F
Affiliation City: Grand Terrace
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92313
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Manuel Miguel
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 825-8110,

Affiliation Type Desc: Parent Corporation
Entity Name: Pressing Matters Cleaners
Entity Title: Not reported
Affiliation Address: Not reported

SUPER CLEANERS (Continued) **S121700098**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Manuel Miguel
Entity Title:	Not reported
Affiliation Address:	22310 Barton Road Unit F
Affiliation City:	Grand Terrace
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92313
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Manuel Miguel
Entity Title:	Manuel Miguel
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Manuel Miguel
Entity Title:	Not reported
Affiliation Address:	22310 Barton Road Unit F
Affiliation City:	Grand Terrace
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92313
Affiliation Phone:	(909) 825-8110,
Affiliation Type Desc:	Document Preparer
Entity Name:	Manuel Miguel
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

I61 **SUPER CLEANERS** **San Bern. Co. Permit** **S121309673**
ENE **22310 BARTON UNIT F** **N/A**
1/8-1/4 **GRAND TERRACE, CA 92313**
0.244 mi.
1287 ft. **Site 5 of 7 in cluster I**

Relative:
Higher

Actual:
1028 ft.

San Bern. Co. Permit:

Name:	SUPER CLEANERS
Address:	22310 BARTON UNIT F
City,State,Zip:	GRAND TERRACE, CA 92313
Region:	SAN BERNARDINO
Facility ID:	FA0006529
Owner:	MANUEL MIGUEL
Permit Number:	PT0000224
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	01/31/2023

Name:	SUPER CLEANERS
Address:	22310 BARTON UNIT F
City,State,Zip:	GRAND TERRACE, CA 92313
Region:	SAN BERNARDINO
Facility ID:	FA0006529
Owner:	MANUEL MIGUEL
Permit Number:	PT0000223
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	01/31/2023

I62 **GRAND HERITAGE CLEANERS** **DRYCLEANERS** **S121693263**
ENE **22310 BARTON RD** **N/A**
1/8-1/4 **GRAND TERRACE, CA 92324**
0.244 mi.
1287 ft. **Site 6 of 7 in cluster I**

Relative:
Higher

Actual:
1028 ft.

DRYCLEAN SOUTH COAST:

Name:	GRAND HERITAGE CLEANERS
Address:	22310 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92324
Facility ID:	100469
Application Number:	297466
Permit Number:	D86566
Status:	O
Representative Name:	TIM GOFF
Representative Telephone:	909 7834589
Permit Status:	INACT_NR
BCAT Number:	000601
BCAT Description:	DRY CLEANING, DRY-TO-DRY NON-VENT, PERC
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	0
UTM North:	0
Application Date:	10/07/1994
PO Issue Date:	11/14/1994
NAICS Code:	812320
SIC Code:	7216

I63 **BILL DARWIN** **SWEEPS UST** **S101591125**
East **22324 BARTON RD** **CA FID UST** **N/A**
1/8-1/4 **GRAND TERRACE, CA 92324**
0.244 mi.
1289 ft. **Site 7 of 7 in cluster I**

Relative:
Higher

Actual:
1031 ft.

SWEEPS UST:

Name:	BILL DARWIN
Address:	22324 BARTON RD
City:	GRAND TERRACE
Status:	Not reported
Comp Number:	3
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000003-000001
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	1

CA FID UST:

Facility ID:	36001674
Regulated By:	UTNKI
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7147832245
Mail To:	Not reported
Mailing Address:	22324 BARTON RD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	GRAND TERRACE 92324
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

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64 **BRYAN PAGE** **RCRA NonGen / NLR** **1026487810**
NNE **11934 VIVIENDA CT.** **CAC003094008**
1/8-1/4 **GRAND TERRACE, CA 92313**
0.245 mi.
1295 ft.

Relative:
Higher

Actual:
1018 ft.

RCRA Listings:

Date Form Received by Agency:		20201120
Handler Name:	BRYAN PAGE	
Handler Address:		11934 VIVIENDA CT.
Handler City,State,Zip:		GRAND TERRACE, CA 92313
EPA ID:		CAC003094008
Contact Name:		BRYAN PAGE

BRYAN PAGE (Continued) **1026487810**

Contact Address:		11934 VIVIENDA CT.
Contact City,State,Zip:		GRAND TERRACE, CA 92313
Contact Telephone:		909-915-4736
Contact Fax:		Not reported
Contact Email:		KC@AQHIINC.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		11934 VIVIENDA CT.
Mailing City,State,Zip:		GRAND TERRACE, CA 92313
Owner Name:	BRYAN PAGE	
Owner Type:		Other
Operator Name:	BRYAN PAGE	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking

BRYAN PAGE (Continued) **1026487810**

Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20201130
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: BRYAN PAGE	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	11934 VIVIENDA CT.
Owner/Operator City,State,Zip:	GRAND TERRACE, CA 92313
Owner/Operator Telephone:	909-915-4736
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: BRYAN PAGE	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	11934 VIVIENDA CT.
Owner/Operator City,State,Zip:	GRAND TERRACE, CA 92313
Owner/Operator Telephone:	909-915-4736
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20201120
Handler Name: BRYAN PAGE	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

BRYAN PAGE (Continued) **1026487810**

Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

J65 **A-1 CLEANER** **San Bern. Co. Permit** **S104763144**
NW **21900 BARTON RD** **N/A**
1/8-1/4 **GRAND TERRACE, CA 92313**
0.247 mi.
1305 ft. **Site 1 of 4 in cluster J**

Relative: **Lower**
Actual: **982 ft.**

San Bern. Co. Permit:
Name: A-1 CLEANER
Address: 21900 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0000094
Owner: WISSA, FRANK
Permit Number: PT0008066
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 08/31/2009

Name: A-1 CLEANER
Address: 21900 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92313
Region: SAN BERNARDINO
Facility ID: FA0000094
Owner: WISSA, FRANK
Permit Number: PT0008065
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 08/31/2008

J66 **FRANK/SARA WISSA** **DRYCLEANERS** **S121693612**
NW **21900 BARTON RD** **N/A**
1/8-1/4 **GRAND TERRACE, CA 92324**
0.247 mi.
1305 ft. **Site 2 of 4 in cluster J**

Relative: **Lower**
Actual: **982 ft.**

DRYCLEAN SOUTH COAST:
Name: FRANK/SARA WISSA
Address: 21900 BARTON RD
City,State,Zip: GRAND TERRACE, CA 92324
Facility ID: 105069

FRANK/SARA WISSA (Continued) **S121693612**

Application Number:	303659
Permit Number:	D90944
Status:	S
Representative Name:	FRANK WISSA
Representative Telephone:	909 4221376
Permit Status:	INACTIVE
BCAT Number:	000601
BCAT Description:	DRY CLEANING, DRY-TO-DRY NON-VENT, PERC
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	469.81600952
UTM North:	3765.769043
Application Date:	05/19/1995
PO Issue Date:	05/25/1995
NAICS Code:	Not reported
SIC Code:	Not reported

J67 **A 1 CLEANERS** **ENVIROSTOR** **S113138252**
NW **21900 BARTON RD STE 130** **VCP** **N/A**
1/8-1/4 **GRAND TERRACE, CA 92313** **HAZNET**
0.247 mi. **HWTS**
1305 ft. **Site 3 of 4 in cluster J**

Relative: **Lower**
Actual: **982 ft.**

ENVIROSTOR:

Name:	A-1 CLEANERS SANBAG
Address:	21900 BARTON ROAD
City,State,Zip:	GRAND TERRACE, CA 92313
Facility ID:	60002175
Status:	Active
Status Date:	01/28/2015
Site Code:	401711
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Agreement
Acres:	1.95
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Vu Nguyen
Supervisor:	Allan Plaza
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	, 47
Senate:	, 20, 19
Special Program:	Voluntary Agreement - CLRRA
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	34.03389
Longitude:	-117.3266
APN:	0275-231-68
Past Use:	DRY CLEANING, DRY CLEANING
Potential COC:	Tetrachloroethylene (PCE Tetrachloroethylene (PCE
Confirmed COC:	Tetrachloroethylene (PCE Tetrachloroethylene (PCE
Potential Description:	SV, SV
Alias Name:	I-215 Barton IC Project
Alias Type:	Alternate Name
Alias Name:	0275-231-68
Alias Type:	APN
Alias Name:	401711

A 1 CLEANERS (Continued) **S113138252**

Alias Type: Project Code (Site Code)
Alias Name: 60002175
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 01/09/2018
Comments: DTSC issued comments on the Report that may be addressed in future reports

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 03/23/2017
Comments: DTSC prepared a community profile for the project

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 03/23/2017
Comments: DTSC prepared a fact sheet for the project

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/28/2016
Comments: Document submitted for background information

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 03/23/2017
Comments: DTSC prepared a public notice for the site

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/03/2016
Comments: Document submitted for background information

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/28/2016
Comments: Document submitted for background information

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/04/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/03/2019

A 1 CLEANERS (Continued) **S113138252**

Comments: Updated cost estimate sent per CLRRA agreement, section 6.2.2.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/17/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/03/2021
Comments: SBCTA notification for the PM change.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/07/2017
Comments: Annual cost estimate letter sent 9/7/17.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 07/25/2017
Comments: DTSC completed a postHARP site form

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/14/2018
Comments: FY 1819 Estimate: $10,470

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 10/25/2019
Comments: Agreement was fully executed on 10/25/2019

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 06/20/2019
Comments: Agreement was fully executed on 6/18/2019 and sent on 6/20/2019 via regular mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 09/19/2019
Comments: Agreement to amend the project cost was executed on 9/19/2019

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management
Completed Date: 06/03/2021
Comments: PM change notification was sent by SACTA on 6/3/2021.

A 1 CLEANERS (Continued) **S113138252**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 07/22/2019
Comments: Pre-HARP signed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: California Land Reuse and Revitalization Agreement
Completed Date: 02/03/2016
Comments: A CLRRA Agreement was fully executed for this project.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/14/2016
Comments: DTSC prepared an annual oversight cost estimate for 2016-2017

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 05/12/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Plan
Completed Date: 07/08/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/28/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/05/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/09/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/19/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork

A 1 CLEANERS (Continued) **S113138252**

Completed Date: 04/03/2018
Comments: DTSC observed confirmation soil gas sampling in the adjacent mobile park community

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/22/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/18/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 07/06/2017
Comments: DTSC prepared a previsit HARP form

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: AB 389 Response Plan
Completed Date: 05/16/2017
Comments: DTSC approved the RP for implementation

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/18/2017
Comments: DTSC conducted field oversight of post excavation soil gas sampling

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/20/2018
Comments: DTSC conditionally approved the 2nd soil gas monitoring report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 08/18/2016
Comments: DTSC issued comments on the soil vapor workplan. A response from the RP was not provided

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/28/2014
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported

A 1 CLEANERS (Continued) **S113138252**

Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Land Use Restriction
Schedule Due Date: 12/31/2022
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Certification
Schedule Due Date: 01/10/2023
Schedule Revised Date: Not reported

VCP:
Name: A-1 CLEANERS SANBAG
Address: 21900 BARTON ROAD
City,State,Zip: GRAND TERRACE, CA 92313
Facility ID: 60002175
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Agreement
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.95
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Vu Nguyen
Supervisor: Allan Plaza
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 401711
Assembly: , 47
Senate: , 20, 19
Special Programs Code: Voluntary Agreement - CLRRA
Status: Active
Status Date: 01/28/2015
Restricted Use: YES
Funding: Responsible Party
Lat/Long: 34.03389 / -117.3266
APN: 0275-231-68
Past Use: DRY CLEANING, DRY CLEANING
Potential COC: 30022, 30022
Confirmed COC: 30022,, ,30022
Potential Description: SV, SV
Alias Name: I-215 Barton IC Project
Alias Type: Alternate Name
Alias Name: 0275-231-68
Alias Type: APN
Alias Name: 401711
Alias Type: Project Code (Site Code)
Alias Name: 60002175
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 01/09/2018
Comments: DTSC issued comments on the Report that may be addressed in future reports

A 1 CLEANERS (Continued) **S113138252**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 03/23/2017
Comments: DTSC prepared a community profile for the project

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 03/23/2017
Comments: DTSC prepared a fact sheet for the project

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/28/2016
Comments: Document submitted for background information

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 03/23/2017
Comments: DTSC prepared a public notice for the site

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/03/2016
Comments: Document submitted for background information

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/28/2016
Comments: Document submitted for background information

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/04/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/03/2019
Comments: Updated cost estimate sent per CLRRA agreement, section 6.2.2.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/17/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence

A 1 CLEANERS (Continued) **S113138252**

Completed Date: 06/03/2021
Comments: SBCTA notification for the PM change.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/07/2017
Comments: Annual cost estimate letter sent 9/7/17.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 07/25/2017
Comments: DTSC completed a postHARP site form

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/14/2018
Comments: FY 1819 Estimate: $10,470

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 10/25/2019
Comments: Agreement was fully executed on 10/25/2019

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 06/20/2019
Comments: Agreement was fully executed on 6/18/2019 and sent on 6/20/2019 via regular mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 09/19/2019
Comments: Agreement to amend the project cost was executed on 9/19/2019

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management
Completed Date: 06/03/2021
Comments: PM change notification was sent by SACTA on 6/3/2021.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 07/22/2019
Comments: Pre-HARP signed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: California Land Reuse and Revitalization Agreement
Completed Date: 02/03/2016
Comments: A CLRRA Agreement was fully executed for this project.

A 1 CLEANERS (Continued) **S113138252**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/14/2016
Comments: DTSC prepared an annual oversight cost estimate for 2016-2017

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 05/12/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Plan
Completed Date: 07/08/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/28/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/05/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/09/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/19/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/03/2018
Comments: DTSC observed confirmation soil gas sampling in the adjacent mobile park community

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/22/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

A 1 CLEANERS (Continued) **S113138252**

Completed Document Type: Removal Action Completion Report
Completed Date: 07/18/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 07/06/2017
Comments: DTSC prepared a previsit HARP form

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: AB 389 Response Plan
Completed Date: 05/16/2017
Comments: DTSC approved the RP for implementation

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/18/2017
Comments: DTSC conducted field oversight of post excavation soil gas sampling

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/20/2018
Comments: DTSC conditionally approved the 2nd soil gas monitoring report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 08/18/2016
Comments: DTSC issued comments on the soil vapor workplan. A response from the RP was not provided

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/28/2014
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Land Use Restriction
Schedule Due Date: 12/31/2022
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Certification
Schedule Due Date: 01/10/2023
Schedule Revised Date: Not reported

A 1 CLEANERS (Continued) **S113138252**

HAZNET:

Name:	A 1 CLEANERS
Address:	21900 BARTON RD STE 130
Address 2:	Not reported
City,State,Zip:	GRAND TERRACE, CA 923134400
Contact:	CHU CHANG
Telephone:	9094221376
Mailing Name:	Not reported
Mailing Address:	21900 BARTON RD STE 130
Year:	2008
Gepaid:	CAL000296634
TSD EPA ID:	CAD008302903
CA Waste Code:	741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	-
Tons:	Not reported
Year:	2008
Gepaid:	CAL000296634
TSD EPA ID:	CAD008302903
CA Waste Code:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method:	-
Tons:	Not reported
Year:	2008
Gepaid:	CAL000296634
TSD EPA ID:	CAD008302903
CA Waste Code:	211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.15
Year:	2008
Gepaid:	CAL000296634
TSD EPA ID:	CAD980884183
CA Waste Code:	211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.1375
Year:	2008
Gepaid:	CAL000296634
TSD EPA ID:	CAD008302903
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	-
Tons:	Not reported
Year:	2007
Gepaid:	CAL000296634
TSD EPA ID:	NVR000076158
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H020 - Solvents Recovery
Tons:	Not reported

A 1 CLEANERS (Continued) **S113138252**

Year: 2007
Gepaid: CAL000296634
TSD EPA ID: NVR000076158
CA Waste Code: -
Disposal Method: H020 - Solvents Recovery
Tons: Not reported

Year: 2007
Gepaid: CAL000296634
TSD EPA ID: NVR000076158
CA Waste Code: 211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method: H020 - Solvents Recovery
Tons: 0.1251

Year: 2006
Gepaid: CAL000296634
TSD EPA ID: NVR000076158
CA Waste Code: 211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method: R01 - Recycler
Tons: 0.2501

Year: 2006
Gepaid: CAL000296634
TSD EPA ID: NVR000076158
CA Waste Code: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: H020 - Solvents Recovery
Tons: Not reported

Click this hyperlink while viewing on your computer to access
6 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2008
Gen EPA ID: CAL000296634

Shipment Date: 20080918
Creation Date: 12/16/2008 18:30:20
Receipt Date: 20081013
Manifest ID: 001358746FLE
Trans EPA ID: CAR000177576
Trans Name: DOUBLE BARREL ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: CAD983649880
Trans 2 Name: GENERAL ENVIRONMENTAL MANAGEMENT INC
TSDF EPA ID: CAD980884183
Trans Name: GEM RANCHO CORDOVA LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code: F002
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.075
Waste Quantity: 150

A 1 CLEANERS (Continued) **S113138252**

Quantity Unit:	P
Additional Code 1:	D039
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080918
Creation Date:	12/16/2008 18:30:20
Receipt Date:	20081013
Manifest ID:	001358746FLE
Trans EPA ID:	CAR000177576
Trans Name:	DOUBLE BARREL ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	GENERAL ENVIRONMENTAL MANAGEMENT INC
TSDF EPA ID:	CAD980884183
Trans Name:	GEM RANCHO CORDOVA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0625
Waste Quantity:	125
Quantity Unit:	P
Additional Code 1:	D039
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080731
Creation Date:	9/25/2008 18:30:09
Receipt Date:	20080804
Manifest ID:	000403574GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

A 1 CLEANERS (Continued) **S113138252**

Shipment Date:	20080731
Creation Date:	9/25/2008 18:30:09
Receipt Date:	20080804
Manifest ID:	000403574GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	G
Additional Code 1:	D039
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20080731
Creation Date:	9/25/2008 18:30:09
Receipt Date:	20080804
Manifest ID:	000403574GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20080731
Creation Date:	9/25/2008 18:30:09
Receipt Date:	20080804
Manifest ID:	000403574GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903

A 1 CLEANERS (Continued) **S113138252**

Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2007
Gen EPA ID:	CAL000296634
Shipment Date:	20070822
Creation Date:	3/4/2008 18:30:55
Receipt Date:	20070830
Manifest ID:	000266508GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070822
Creation Date:	3/4/2008 18:30:55
Receipt Date:	20070830
Manifest ID:	000266508GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported

A 1 CLEANERS (Continued) **S113138252**

TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070822
Creation Date:	3/4/2008 18:30:55
Receipt Date:	20070830
Manifest ID:	000266508GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070822
Creation Date:	3/4/2008 18:30:55
Receipt Date:	20070830
Manifest ID:	000266508GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported

A 1 CLEANERS (Continued) **S113138252**

Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2006
Gen EPA ID: CAL000296634

Shipment Date: 20060922
Creation Date: 7/13/2007 18:30:17
Receipt Date: 20060925
Manifest ID: 000238408GBF
Trans EPA ID: CAR000166827
Trans Name: AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID: CAR000161836
Trans 2 Name: TECHNICHEM INC
TSDF EPA ID: NVR000076158
Trans Name: RESOLVENT INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 134 - Aqueous solution with <10% total organic residues
RCRA Code: D039
Meth Code: H020 - Solvents Recovery
Quantity Tons: Not reported
Waste Quantity: Not reported
Quantity Unit: Not reported
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20060922
Creation Date: 7/13/2007 18:30:17
Receipt Date: 20060925
Manifest ID: 000238408GBF
Trans EPA ID: CAR000166827
Trans Name: AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID: CAR000161836
Trans 2 Name: TECHNICHEM INC
TSDF EPA ID: NVR000076158
Trans Name: RESOLVENT INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code: Not reported
Meth Code: H020 - Solvents Recovery
Quantity Tons: Not reported
Waste Quantity: Not reported
Quantity Unit: Not reported
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

A 1 CLEANERS (Continued) **S113138252**

Shipment Date:	20060922
Creation Date:	7/13/2007 18:30:17
Receipt Date:	20060925
Manifest ID:	000238408GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.19
Waste Quantity:	380
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060922
Creation Date:	7/13/2007 18:30:17
Receipt Date:	20060925
Manifest ID:	000238408GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060425
Creation Date:	8/24/2006 18:32:58
Receipt Date:	20060430
Manifest ID:	24996899
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836

A 1 CLEANERS (Continued) **S113138252**

Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	R01 - Recycler
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060425
Creation Date:	8/24/2006 18:32:58
Receipt Date:	20060430
Manifest ID:	24996899
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060425
Creation Date:	8/24/2006 18:32:58
Receipt Date:	20060430
Manifest ID:	24996899
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported

A 1 CLEANERS (Continued) **S113138252**

Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060425
Creation Date:	8/24/2006 18:32:58
Receipt Date:	20060430
Manifest ID:	24996899
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060112
Creation Date:	7/11/2006 18:33:41
Receipt Date:	20060120
Manifest ID:	24800331
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAD981375983
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

A 1 CLEANERS (Continued) **S113138252**

Additional Code 5:	Not reported
Shipment Date:	20060112
Creation Date:	7/11/2006 18:33:41
Receipt Date:	20060120
Manifest ID:	24800331
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAD981375983
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAL000296634
Shipment Date:	20050907
Creation Date:	6/22/2006 18:31:22
Receipt Date:	20050919
Manifest ID:	24549716
Trans EPA ID:	CAR000036921
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAD981375983
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	R01 - Recycler
Quantity Tons:	0.04
Waste Quantity:	80
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050907
Creation Date:	6/22/2006 18:31:22

A 1 CLEANERS (Continued) **S113138252**

Receipt Date:	20050919
Manifest ID:	24549716
Trans EPA ID:	CAR000036921
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAD981375983
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050907
Creation Date:	6/22/2006 18:31:22
Receipt Date:	20050919
Manifest ID:	24549716
Trans EPA ID:	CAR000036921
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAD981375983
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050907
Creation Date:	6/22/2006 18:31:22
Receipt Date:	20050919
Manifest ID:	24549716
Trans EPA ID:	CAR000036921
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAD981375983
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported

A 1 CLEANERS (Continued) **S113138252**

TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	A 1 CLEANERS
Address:	21900 BARTON RD STE 130
Address 2:	Not reported
City,State,Zip:	GRAND TERRACE, CA 92313
EPA ID:	CAL000296634
Inactive Date:	06/30/2008
Create Date:	07/20/2005
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	21900 BARTON RD STE 130
Mailing Address 2:	Not reported
Mailing City,State,Zip:	GRAND TERRACE, CA 923134400
Owner Name:	CUONG TRAC
Owner Address:	21900 BARTON RD STE 130
Owner Address 2:	Not reported
Owner City,State,Zip:	GRAND TERRACE, CA 923134400
Contact Name:	CHU CHANG
Contact Address:	21900 BARTON RD STE 130
Contact Address 2:	Not reported
City,State,Zip:	GRAND TERRACE, CA 923134400
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.033855
Longitude:	-117.32711

NAICS:

EPA ID:	CAL000296634
Create Date:	2005-07-20 09:49:34.343
NAICS Code:	99999
NAICS Description:	Not Otherwise Specified
Issued EPA ID Date:	2005-07-20 09:49:34.29700
Inactive Date:	2008-06-30 00:00:00
Facility Name:	A 1 CLEANERS
Facility Address:	21900 BARTON RD STE 130
Facility Address 2:	Not reported
Facility City:	GRAND TERRACE
Facility County:	Not reported
Facility State:	CA
Facility Zip:	923134400

J68 **A-1 CLEANERS, CHU CHANG** **DRYCLEANERS** **S121695679**
NW **21900 BARTON RD #130** **N/A**
1/8-1/4 **GRAND TERRACE, CA 92313**
0.247 mi.
1305 ft. **Site 4 of 4 in cluster J**

Relative: DRYCLEAN SOUTH COAST:
Lower

Actual: Name: A-1 CLEANERS, CHU CHANG
982 ft. Address: 21900 BARTON RD #130
City,State,Zip: GRAND TERRACE, CA 92313
Facility ID: 144298
Application Number: 442996
Permit Number: F76048
Status: O
Representative Name: CHU CHANG
Representative Telephone: 909 5340276
Permit Status: INACTIVE
BCAT Number: 000601
BCAT Description: DRY CLEANING, DRY-TO-DRY NON-VENT, PERC
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 469.79998779
UTM North: 3765.7600098
Application Date: 04/21/2005
PO Issue Date: 06/10/2005
NAICS Code: Not reported
SIC Code: 7216

Name: A-1 CLEANERS, CHU CHANG
Address: 21900 BARTON RD #130
City,State,Zip: GRAND TERRACE, CA 92313
Facility ID: 144298
Application Number: 456275
Permit Number: F82034
Status: O
Representative Name: CHU CHANG
Representative Telephone: 909 5340276
Permit Status: INACTIVE
BCAT Number: 000603
BCAT Description: DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 469.79998779
UTM North: 3765.7600098
Application Date: 04/18/2006
PO Issue Date: 05/10/2006
NAICS Code: Not reported
SIC Code: 7216

Name: A-1 CLEANERS, CHU CHANG
Address: 21900 BARTON RD #130
City,State,Zip: GRAND TERRACE, CA 92313
Facility ID: 144298
Application Number: 471702
Permit Number: F96333
Status: O
Representative Name: CHU CHANG
Representative Telephone: 909 5340276
Permit Status: INACTIVE

A-1 CLEANERS, CHU CHANG (Continued) **S121695679**

BCAT Number:	000603
BCAT Description:	DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	469.79998779
UTM North:	3765.7600098
Application Date:	07/10/2007
PO Issue Date:	04/08/2008
NAICS Code:	Not reported
SIC Code:	7216

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69 **UNOCAL #4238** **LUST** **S102440286**
East **22483 BARTON RD** **Cortese** **N/A**
1/4-1/2 **GRAND TERRACE, CA 92324** **HIST CORTESE**
0.448 mi. **CERS**
2367 ft.

Relative:
Higher

Actual:
1062 ft.

LUST:

Name:	UNOCAL #4238
Address:	22483 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92324
Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100376
Global Id:	T0607100376
Latitude:	34.033624
Longitude:	-117.313965
Status:	Completed - Case Closed
Status Date:	06/21/1996
Case Worker:	JC
RB Case Number:	083602645T
Local Agency:	SAN BERNARDINO COUNTY
File Location:	Local Agency
Local Case Number:	95062
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607100376
Contact Type:	Local Agency Caseworker
Contact Name:	JACKSON CRUTSINGER
Organization Name:	SAN BERNARDINO COUNTY
Address:	620 SOUTH E STREET
City:	SAN BERNARDINO
Email:	jcrutsinger@sbcfire.org
Phone Number:	Not reported

LUST:

Global Id:	T0607100376
Action Type:	ENFORCEMENT
Date:	06/21/1996
Action:	Closure/No Further Action Letter

Global Id:	T0607100376
Action Type:	Other
Date:	05/20/1992
Action:	Leak Discovery

UNOCAL #4238 (Continued) **S102440286**

Global Id: T0607100376
Action Type: Other
Date: 03/23/1995
Action: Leak Reported

LUST:
Global Id: T0607100376
Status: Open - Case Begin Date
Status Date: 05/20/1992

Global Id: T0607100376
Status: Open - Site Assessment
Status Date: 07/26/1995

Global Id: T0607100376
Status: Open - Site Assessment
Status Date: 11/14/1995

Global Id: T0607100376
Status: Open - Site Assessment
Status Date: 05/14/1996

Global Id: T0607100376
Status: Completed - Case Closed
Status Date: 06/21/1996

LUST REG 8:
Name: UNOCAL #4238
Address: 22483 BARTON RD
City: GRAND TERRACE
Region: 8
County: San Bernardino
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083602645T
Local Case Num: 95062
Case Type: Soil only
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: Not reported
Cross Street: MOUNT VERNON
Enf Type: CLOS
Funding: Not reported
How Discovered: Other Means
How Stopped: Not reported
Leak Cause: Overfill
Leak Source: Piping
Global ID: T0607100376
How Stopped Date: Not reported
Enter Date: 4/20/1995
Date Confirmation of Leak Began: 11/14/1995
Date Preliminary Assessment Began: 7/26/1995
Discover Date: 5/20/1992
Enforcement Date: Not reported
Close Date: 6/21/1996

UNOCAL #4238 (Continued) **S102440286**

Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	5/14/1996
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	4/20/1995
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.0337542
Longitude:	-117.3139416
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	NOM
Staff Initials:	JC3
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: DISCOVERED=PREVENTIVE MEASURE; CAUSE=VALVE FAILURE; CLOSURE SUMMARY 6/7/96

CORTESE:

Name:	UNOCAL #4238
Address:	22483 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92324
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100376
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

UNOCAL #4238 (Continued) **S102440286**

HIST CORTESE:

edr_fname:	UNOCAL #4238
edr_fadd1:	22483 BARTON
City,State,Zip:	GRAND TERRACE, CA
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083602645T

CERS:

Name:	UNOCAL #4238
Address:	22483 BARTON RD
City,State,Zip:	GRAND TERRACE, CA 92324
Site ID:	250237
CERS ID:	T0607100376
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	JACKSON CRUTSINGER - SAN BERNARDINO COUNTY
Entity Title:	Not reported
Affiliation Address:	620 SOUTH E STREET
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

K70 **STATER BROS** **RCRA-SQG** **1000401484**
West **21700 BARTON RD** **LUST** **CAD982002701**
1/4-1/2 **COLTON, CA 92324** **SWEEPS UST**
0.497 mi. **HIST UST**
2623 ft. **Site 1 of 2 in cluster K** **FINDS**
ECHO
Relative: **Cortese**
Lower **HIST CORTESE**
Actual: **San Bern. Co. Permit**
955 ft. **WDS**
CIWQS
CERS

RCRA Listings:

Date Form Received by Agency:		19870601
Handler Name:	STATER BROS	
Handler Address:		21700 BARTON RD
Handler City,State,Zip:		COLTON, CA 92324
EPA ID:		CAD982002701
Contact Name:		ENVIRONMENTAL MANAGER
Contact Address:		21700 BARTON RD
Contact City,State,Zip:		COLTON, CA 92324
Contact Telephone:		714-783-5131
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported

STATER BROS (Continued) **1000401484**

Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		CA
State District:		4
Mailing Address:		BARTON RD
Mailing City,State,Zip:		COLTON, CA 92324
Owner Name:	STATER BROS	
Owner Type:		Private
Operator Name:	NOT REQUIRED	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No

STATER BROS (Continued) **1000401484**

Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20000915
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: STATER BROS	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19870601
Handler Name: STATER BROS	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

STATER BROS (Continued) **1000401484**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

LUST:
Name: STATER BROTHERS DISTRIBUTION
Address: 21700 BARTON RD
City,State,Zip: COLTON, CA 92324
Lead Agency: SAN BERNARDINO COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100067
Global Id: T0607100067
Latitude: 34.03383
Longitude: -117.330873
Status: Completed - Case Closed
Status Date: 03/06/1997
Case Worker: Not reported
RB Case Number: 083600671T
Local Agency: Not reported
File Location: Local Agency
Local Case Number: 90168
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0607100067
Action Type: Other
Date: 07/31/1987
Action: Leak Discovery

Global Id: T0607100067
Action Type: Other
Date: 08/18/1987
Action: Leak Reported

LUST:
Global Id: T0607100067
Status: Open - Case Begin Date
Status Date: 07/31/1987

Global Id: T0607100067
Status: Open - Site Assessment
Status Date: 10/15/1987

Global Id: T0607100067
Status: Completed - Case Closed
Status Date: 03/06/1997

Name: STATER BROS. WAREHOUSE
Address: 21700 BARTON RD
City,State,Zip: COLTON, CA 92324

STATER BROS (Continued) **1000401484**

Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100500
Global Id:	T0607100500
Latitude:	34.03383
Longitude:	-117.330873
Status:	Completed - Case Closed
Status Date:	03/15/1999
Case Worker:	Not reported
RB Case Number:	083603249T
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	98048
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607100500
Action Type:	Other
Date:	06/10/1998
Action:	Leak Discovery

Global Id:	T0607100500
Action Type:	ENFORCEMENT
Date:	03/15/1999
Action:	Closure/No Further Action Letter

Global Id:	T0607100500
Action Type:	Other
Date:	08/27/1998
Action:	Leak Reported

Global Id:	T0607100500
Action Type:	ENFORCEMENT
Date:	11/12/1998
Action:	Closure/No Further Action Letter

LUST:

Global Id:	T0607100500
Status:	Open - Case Begin Date
Status Date:	06/10/1998

Global Id:	T0607100500
Status:	Completed - Case Closed
Status Date:	03/15/1999

LUST REG 8:

Name:	STATER BROS. WAREHOUSE
Address:	21700 BARTON RD
City:	COLTON
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083603249T

STATER BROS (Continued) **1000401484**

Local Case Num:	98048
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	LA CADENA
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Not reported
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Global ID:	T0607100500
How Stopped Date:	Not reported
Enter Date:	9/30/1998
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	6/10/1998
Enforcement Date:	Not reported
Close Date:	3/15/1999
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	9/30/1998
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.033888
Longitude:	-117.3319823
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	NOM
Staff Initials:	LH6
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

SWEEPS UST:

Name:	STATER BROS. MARKETS
Address:	21700 BARTON RD
City:	COLTON
Status:	Active

STATER BROS (Continued) **1000401484**

Comp Number: 17722
Number: 1
Board Of Equalization: 44-020656
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 1
SWRCB Tank Id: 36-000-017722-000001
Tank Status: A
Capacity: 7500
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 13

Name: STATER BROS. MARKETS
Address: 21700 BARTON RD
City: COLTON
Status: Active
Comp Number: 17722
Number: 1
Board Of Equalization: 44-020656
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 2
SWRCB Tank Id: 36-000-017722-000002
Tank Status: A
Capacity: 7500
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: STATER BROS. MARKETS
Address: 21700 BARTON RD
City: COLTON
Status: Active
Comp Number: 17722
Number: 1
Board Of Equalization: 44-020656
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 3
SWRCB Tank Id: 36-000-017722-000003
Tank Status: A
Capacity: 8000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: STATER BROS. MARKETS

STATER BROS (Continued) **1000401484**

Address: 21700 BARTON RD
City: COLTON
Status: Active
Comp Number: 17722
Number: 1
Board Of Equalization: 44-020656
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 4
SWRCB Tank Id: 36-000-017722-000004
Tank Status: A
Capacity: 8000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: STATER BROS. MARKETS
Address: 21700 BARTON RD
City: COLTON
Status: Active
Comp Number: 17722
Number: 1
Board Of Equalization: 44-020656
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 5
SWRCB Tank Id: 36-000-017722-000005
Tank Status: A
Capacity: 8000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: STATER BROS. MARKETS
Address: 21700 BARTON RD
City: COLTON
Status: Active
Comp Number: 17722
Number: 1
Board Of Equalization: 44-020656
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 6
SWRCB Tank Id: 36-000-017722-000006
Tank Status: A
Capacity: 8000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL

STATER BROS (Continued) **1000401484**

Number Of Tanks: Not reported

Name: STATER BROS. MARKETS
Address: 21700 BARTON RD
City: COLTON
Status: Active
Comp Number: 17722
Number: 1
Board Of Equalization: 44-020656
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 7
SWRCB Tank Id: 36-000-017722-000007
Tank Status: A
Capacity: 6000
Active Date: 07-01-85
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: Not reported

Name: STATER BROS. MARKETS
Address: 21700 BARTON RD
City: COLTON
Status: Active
Comp Number: 17722
Number: 1
Board Of Equalization: 44-020656
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 11
SWRCB Tank Id: 36-000-017722-000008
Tank Status: A
Capacity: 150
Active Date: 07-01-85
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Name: STATER BROS. MARKETS
Address: 21700 BARTON RD
City: COLTON
Status: Active
Comp Number: 17722
Number: 1
Board Of Equalization: 44-020656
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 12
SWRCB Tank Id: 36-000-017722-000009
Tank Status: A
Capacity: 150
Active Date: 07-01-85

STATER BROS (Continued) **1000401484**

Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Name: STATER BROS. MARKETS
Address: 21700 BARTON RD
City: COLTON
Status: Active
Comp Number: 17722
Number: 1
Board Of Equalization: 44-020656
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 13
SWRCB Tank Id: 36-000-017722-000010
Tank Status: A
Capacity: 300
Active Date: 07-01-85
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Name: STATER BROS. MARKETS
Address: 21700 BARTON RD
City: COLTON
Status: Active
Comp Number: 17722
Number: 1
Board Of Equalization: 44-020656
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 14
SWRCB Tank Id: 36-000-017722-000011
Tank Status: A
Capacity: 300
Active Date: 07-01-85
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Name: STATER BROS. MARKETS
Address: 21700 BARTON RD
City: COLTON
Status: Active
Comp Number: 17722
Number: 1
Board Of Equalization: 44-020656
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 15
SWRCB Tank Id: 36-000-017722-000012

STATER BROS (Continued) **1000401484**

Tank Status: A
Capacity: 300
Active Date: 07-01-85
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Name: STATER BROS. MARKETS
Address: 21700 BARTON RD
City: COLTON
Status: Active
Comp Number: 17722
Number: 1
Board Of Equalization: 44-020656
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 02-29-88
Owner Tank Id: 16
SWRCB Tank Id: 36-000-017722-000013
Tank Status: A
Capacity: 300
Active Date: 07-01-85
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
Name: STATER BROS MARKETS
Address: 21700 BARTON ROAD
City,State,Zip: COLTON, CA 92324
File Number: 0002A729
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A729.pdf
Region: STATE
Facility ID: 00000017722
Facility Type: Other
Other Type: DISTRIBUTION CENTER
Contact Name: OLIVER J. GREGOR
Telephone: 7147835000
Owner Name: STATER BROS. MARKETS
Owner Address: 21700 BARTON ROAD
Owner City,St,Zip: COLTON, CA 92324
Total Tanks: 0013

Tank Num: 001
Container Num: 1
Year Installed: 1961
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: 1961

STATER BROS (Continued) **1000401484**

Tank Capacity:	00007500
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	003
Container Num:	3
Year Installed:	1978
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	004
Container Num:	4
Year Installed:	1978
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	005
Container Num:	5
Year Installed:	1978
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	006
Container Num:	6
Year Installed:	1978
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	007
Container Num:	7
Year Installed:	1978
Tank Capacity:	00006000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	1/4
Leak Detection:	Visual

Tank Num:	008
Container Num:	11
Year Installed:	1961
Tank Capacity:	00000150
Tank Used for:	PRODUCT
Type of Fuel:	Not reported

STATER BROS (Continued) **1000401484**

Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 009
Container Num: 12
Year Installed: 1961
Tank Capacity: 00000150
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 010
Container Num: 13
Year Installed: 1978
Tank Capacity: 00000300
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

Tank Num: 011
Container Num: 14
Year Installed: 1978
Tank Capacity: 00000300
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

Tank Num: 012
Container Num: 15
Year Installed: 1978
Tank Capacity: 00000300
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

Tank Num: 013
Container Num: 16
Year Installed: 1978
Tank Capacity: 00000300
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

FINDS:
Registry ID: 110002773044

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART)

STATER BROS (Continued) **1000401484**

provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000401484
Registry ID:	110002773044
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002773044
Name:	STATER BROS
Address:	21700 BARTON RD
City,State,Zip:	COLTON, CA 92324

CORTESE:

Name:	STATER BROS. WAREHOUSE
Address:	21700 BARTON RD
City,State,Zip:	COLTON, CA 92324
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100500
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	STATER BROTHERS DISTRIBUT
edr_fadd1:	21700 BARTON
City,State,Zip:	COLTON, CA 92324
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083600671T

STATER BROS (Continued) **1000401484**

edr_fname: STATER BROS. WAREHOUSE
edr_fadd1: 21700
City,State,Zip: COLTON, CA 92324
Region: CORTESE
Facility County Code: 36
Reg By: LTNKA
Reg Id: 083603249T

San Bern. Co. Permit:
Name: LINEAGE LOGISTICS ICM, LLC
Address: 21700 BARTON RD
City,State,Zip: COLTON, CA 92394
Region: SAN BERNARDINO
Facility ID: FA0012492
Owner: Lineage Logistics ICM, LLC
Permit Number: PT0021785
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 05/31/2022

Name: LINEAGE LOGISTICS ICM, LLC
Address: 21700 BARTON RD
City,State,Zip: COLTON, CA 92394
Region: SAN BERNARDINO
Facility ID: FA0012492
Owner: Lineage Logistics ICM, LLC
Permit Number: PT0021786
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 05/31/2022

Name: STATER BROS MARKETS
Address: 21700 BARTON RD
City,State,Zip: COLTON, CA 92324
Region: SAN BERNARDINO
Facility ID: FA0006449
Owner: STATER BROS. MARKETS
Permit Number: PT0002360
Permit Category: HAZARDOUS WASTE GENERATOR - 26-50 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 07/31/2009

Name: STATER BROS MARKETS
Address: 21700 BARTON RD
City,State,Zip: COLTON, CA 92324
Region: SAN BERNARDINO
Facility ID: FA0006449
Owner: STATER BROS. MARKETS
Permit Number: PT0002359
Permit Category: HAZMAT HANDLER 26-50 EMPLOYEES (W/GEN PRMT)
Facility Status: INACTIVE
Expiration Date: 07/31/2009

WDS:
Name: STATER BROS MARKETS
Address: 21700 Barton Rd

STATER BROS (Continued) **1000401484**

City:	COLTON
Facility ID:	Santa Ana River 36I004384
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	8
Facility Telephone:	9097835287
Facility Contact:	PHILLIP J SMITH
Agency Name:	STATER BROS MARKETS
Agency Address:	PO Box 150
Agency City,St,Zip:	Colton 923240150
Agency Contact:	SCOTT LIMBACHER
Agency Telephone:	9097835277
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:

Name:	STATER BROS MARKETS
Address:	21700 BARTON RD
City,State,Zip:	COLTON, CA 92324
Agency:	Stater Bros Markets
Agency Address:	PO Box 150, Colton, CA 92324
Place/Project Type:	Industrial - Local Trucking with Storage
SIC/NAICS:	4214(+)
Region:	8
Program:	INDSTW

STATER BROS (Continued) **1000401484**

Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I004384
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	04/06/1992
Termination Date:	12/19/2008
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.03383
Longitude:	-117.33175

CERS:

Name:	STATER BROS. WAREHOUSE
Address:	21700 BARTON RD
City,State,Zip:	COLTON, CA 92324
Site ID:	228207
CERS ID:	T0607100500
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Name:	STATER BROTHERS DISTRIBUTION
Address:	21700 BARTON RD
City,State,Zip:	COLTON, CA 92324
Site ID:	220095
CERS ID:	T0607100067
CERS Description:	Leaking Underground Storage Tank Cleanup Site

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K71 **STATER BROTHERS DISTRIBUTION** **LUST** **S100874979**
West **21700 BARTON RD** **Cortese** **N/A**
1/4-1/2 **COLTON, CA 92324**
0.497 mi.
2623 ft. **Site 2 of 2 in cluster K**

Relative: **Lower**

Actual: **955 ft.**

LUST REG 8:

Name:	STATER BROTHERS DISTRIBUTION
Address:	21700 BARTON RD
City:	COLTON
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083600671T
Local Case Num:	90168
Case Type:	Soil only
Substance:	Diesel
Qty Leaked:	Not reported
Abate Method:	EDETIT
Cross Street:	LA CADENA
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	OM

STATER BROTHERS DISTRIBUTION (Continued) **S100874979**

How Stopped:	Not reported
Leak Cause:	Other Cause
Leak Source:	Piping
Global ID:	T0607100067
How Stopped Date:	Not reported
Enter Date:	10/15/1987
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	7/31/1987
Enforcement Date:	Not reported
Close Date:	3/6/1997
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	10/15/1987
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	10/15/1987
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Yes
Oversite Program:	LUST
Latitude:	34.033888
Longitude:	-117.3319823
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	RS
Staff Initials:	LH6
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

CORTESE:

Name:	STATER BROTHERS DISTRIBUTION
Address:	21700 BARTON RD
City,State,Zip:	COLTON, CA 92324
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100067
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported

STATER BROTHERS DISTRIBUTION (Continued) **S100874979**

Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

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72 **HIGH SCHOOL NO. 3** **ENVIROSTOR** **S105954559**
South **MAIN STREET/TAYLOR STREET** **SCH** **N/A**
1/2-1 **GRAND TERRACE, CA 92313** **DEED**
0.895 mi.
4726 ft.

Relative:
Higher

Actual:
1003 ft.

ENVIROSTOR:

Name:	HIGH SCHOOL NO. 3
Address:	MAIN STREET/TAYLOR STREET
City,State,Zip:	GRAND TERRACE, CA 92313
Facility ID:	36010044
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	05/21/2013
Site Code:	404450
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	60
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Aslam Shareef
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	47
Senate:	20
Special Program:	Not reported
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.02017
Longitude:	-117.3235
APN:	116-131-39, 116-142-45, 116-156, 116-158-60, 116-715-130, 116-722-102, 116722102
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	Arsenic Tetrachloroethylene (PCE Trichloroethylene (TCE Cadmium and compounds Chromium VI Dieldrin
Confirmed COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE
Potential Description:	SV
Alias Name:	COLTON JOINT USD-HIGH SCHOOL NO. 3
Alias Type:	Alternate Name
Alias Name:	Grand Terrace High School
Alias Type:	Alternate Name
Alias Name:	HIGH SCHOOL NO. 3
Alias Type:	Alternate Name
Alias Name:	Proposed High School #3
Alias Type:	Alternate Name

HIGH SCHOOL NO. 3 (Continued) **S105954559**

Alias Name: 116-131-39
Alias Type: APN
Alias Name: 116-142-45
Alias Type: APN
Alias Name: 116-156
Alias Type: APN
Alias Name: 116-158-60
Alias Type: APN
Alias Name: 116-715-130
Alias Type: APN
Alias Name: 116-722-102
Alias Type: APN
Alias Name: 116722102
Alias Type: APN
Alias Name: 110033613935
Alias Type: EPA (FRS #)
Alias Name: 404450
Alias Type: Project Code (Site Code)
Alias Name: 36010044
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 02/23/2006
Comments: issued comments and partial site approval for approximately 37 acres, identified as Area A (APNs 1167-221-01, and -02, 1167-151-32, -39, -43, -44 and a portion of 1167-151-45. Results of the SSI indicate that further investigation and possibly a removal action, is required for the 28.5 acre (Assessor s Parcel Numbers (APN) 1167-151-31, -58 through 60 and a portion of -45 for VOCs, and for RCRA closure on a portion.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 07/20/2005
Comments: SSI WP approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Plan
Completed Date: 11/09/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 05/17/2019
Comments: DTSC Approved 5-year review

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 06/12/2015
Comments: Approved SSI

HIGH SCHOOL NO. 3 (Continued) **S105954559**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 03/17/2016
Comments: District submitted letter on the LUC compliance

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 05/07/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/06/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/10/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/12/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 05/17/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 05/19/2017
Comments: Received compliance letter from the school

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 03/29/2018
Comments: DTSC approved Annual LUC Inspection Letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 03/17/2016
Comments: Compliance Letter issued by the District

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement

HIGH SCHOOL NO. 3 (Continued) **S105954559**

Completed Date: 05/30/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 03/30/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 05/25/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/31/2017
Comments: Annual Cost Estimate letter sent 08/31/17.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/04/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/27/2018
Comments: FY 1819 Estimate: $3,442

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management
Completed Date: 06/30/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/10/2017
Comments: Compliance letter issued by the District

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 11/03/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 08/05/2020
Comments: DTSC approved 5 Year LUC Report

HIGH SCHOOL NO. 3 (Continued) **S105954559**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/05/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/16/2016
Comments: Annual Cost Estimate letter, dated 9/16/16, sent to RP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/21/2015
Comments: Annual Cost Estimate emailed and mailed to BP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/07/2020
Comments: DTSC processed Conditional Approval Letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 03/22/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 03/27/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 10/23/2006
Comments: Site poses an unacceptable risk based on unrestricted scenario. Based on schools risk assessment with 95th UCL, site is acceptable for use as a school. RAW will be required for LUC to restrict the land use to a school.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 11/09/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 12/05/2006
Comments: Accepted, 4.15C

HIGH SCHOOL NO. 3 (Continued) **S105954559**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/23/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 01/29/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 03/12/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/22/2013
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2025
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: HIGH SCHOOL NO. 3
Address: MAIN STREET/TAYLOR STREET
City,State,Zip: GRAND TERRACE, CA 92313
Facility ID: 36010044
Site Type: School Cleanup
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 60
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Aslam Shareef
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 404450
Assembly: 47
Senate: 20
Special Program Status: Not reported
Status: Certified O&M - Land Use Restrictions Only
Status Date: 05/21/2013

HIGH SCHOOL NO. 3 (Continued) **S105954559**

Restricted Use:	YES
Funding:	School District
Latitude:	34.02017
Longitude:	-117.3235
APN:	116-131-39, 116-142-45, 116-156, 116-158-60, 116-715-130, 116-722-102, 116722102
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	Arsenic, Tetrachloroethylene (PCE, Trichloroethylene (TCE, Cadmium and compounds, Chromium VI, Dieldrin
Confirmed COC:	Tetrachloroethylene (PCE, Trichloroethylene (TCE
Potential Description:	SV
Alias Name:	COLTON JOINT USD-HIGH SCHOOL NO. 3
Alias Type:	Alternate Name
Alias Name:	Grand Terrace High School
Alias Type:	Alternate Name
Alias Name:	HIGH SCHOOL NO. 3
Alias Type:	Alternate Name
Alias Name:	Proposed High School #3
Alias Type:	Alternate Name
Alias Name:	116-131-39
Alias Type:	APN
Alias Name:	116-142-45
Alias Type:	APN
Alias Name:	116-156
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Alias Type:	APN
Alias Name:	116-715-130
Alias Type:	APN
Alias Name:	116-722-102
Alias Type:	APN
Alias Name:	116722102
Alias Type:	APN
Alias Name:	110033613935
Alias Type:	EPA (FRS #)
Alias Name:	404450
Alias Type:	Project Code (Site Code)
Alias Name:	36010044
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	02/23/2006
Comments:	issued comments and partial site approval for approximately 37 acres, identified as Area A (APNs 1167-221-01, and -02, 1167-151-32, -39, -43, -44 and a portion of 1167-151-45. Results of the SSI indicate that further investigation and possibly a removal action, is required for the 28.5 acre (Assessor s Parcel Numbers (APN) 1167-151-31, -58 through 60 and a portion of -45 for VOCs, and for RCRA closure on a portion.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	07/20/2005
Comments:	SSI WP approved

HIGH SCHOOL NO. 3 (Continued) **S105954559**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Plan
Completed Date: 11/09/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 05/17/2019
Comments: DTSC Approved 5-year review

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 06/12/2015
Comments: Approved SSI

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 03/17/2016
Comments: District submitted letter on the LUC compliance

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 05/07/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/06/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/10/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/12/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 05/17/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report

HIGH SCHOOL NO. 3 (Continued) **S105954559**

Completed Date: 05/19/2017
Comments: Received compliance letter from the school

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 03/29/2018
Comments: DTSC approved Annual LUC Inspection Letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 03/17/2016
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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 05/30/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 03/30/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 05/25/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/31/2017
Comments: Annual Cost Estimate letter sent 08/31/17.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/04/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/27/2018
Comments: FY 1819 Estimate: $3,442

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management
Completed Date: 06/30/2021
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HIGH SCHOOL NO. 3 (Continued) **S105954559**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/10/2017
Comments: Compliance letter issued by the District

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Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 11/03/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 08/05/2020
Comments: DTSC approved 5 Year LUC Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/05/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/16/2016
Comments: Annual Cost Estimate letter, dated 9/16/16, sent to RP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/21/2015
Comments: Annual Cost Estimate emailed and mailed to BP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/07/2020
Comments: DTSC processed Conditional Approval Letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 03/22/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 03/27/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report

HIGH SCHOOL NO. 3 (Continued) **S105954559**

Completed Date: 10/23/2006
Comments: Site poses an unacceptable risk based on unrestricted scenario. Based on schools risk assessment with 95th UCL, site is acceptable for use as a school. RAW will be required for LUC to restrict the land use to a school.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 11/09/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 12/05/2006
Comments: Accepted, 4.15C

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/23/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 01/29/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 03/12/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/22/2013
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2025
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

DEED:
Name: HIGH SCHOOL NO. 3
Address: MAIN STREET/TAYLOR STREET
City,State,Zip: GRAND TERRACE, CA 92313
Envirostor ID: 36010044

HIGH SCHOOL NO. 3 (Continued) **S105954559**

Area: PROJECT WIDE
Sub Area: Not reported
Site Type: SCHOOL CLEANUP
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): Not reported
File Name: Envirostor Land Use Restrictions

L73 **EPTC-HIGHGROVE** **CORRACTS** **1000167568**
SSW **12600 TAYLOR ST.** **RCRA-SQG** **CAD000631028**
1/2-1 **COLTON, CA 92324**
0.923 mi.
4875 ft. **Site 1 of 2 in cluster L**

Relative:
Lower

Actual:
950 ft.

CORRACTS:
Name: EPTC-HIGHGROVE
Address: 12600 TAYLOR ST.
Address 2: Not reported
EPA ID: CAD000631028
Area Name: RIVERSIDE CANAL POWER CO.
Corrective Action: INVESTIGATION IMPOSITION
Actual Date: 20061116
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Y
Surface Water Release Indicator: Not reported

Name: EPTC-HIGHGROVE
Address: 12600 TAYLOR ST.
Address 2: Not reported
EPA ID: CAD000631028
Area Name: RIVERSIDE CANAL POWER CO.
Corrective Action: INVESTIGATION WORKPLAN APPROVED
Actual Date: 20071220
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Y
Surface Water Release Indicator: Not reported

Name: EPTC-HIGHGROVE
Address: 12600 TAYLOR ST.
Address 2: Not reported
EPA ID: CAD000631028
Area Name: ENTIRE FACILITY
Corrective Action: DATE FOR PUBLIC NOTICE ON PROPOSED REMEDY
Actual Date: 20131024
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

RCRA Listings:
Date Form Received by Agency: 20020228
Handler Name: EPTC-HIGHGROVE
Handler Address: 12600 TAYLOR ST.
Handler City,State,Zip: COLTON, CA 92324

EPTC-HIGHGROVE (Continued) **1000167568**

EPA ID:		CAD000631028
Contact Name:		STANLEY L MARSH
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		626-302-9711
Contact Fax:		Not reported
Contact Email:		STANLEY.MARSH@SCE.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		2500 E. VICTORIA ST.
Mailing City,State,Zip:		COMPTON, CA 90220
Owner Name:	Not reported	
Owner Type:		Not reported
Operator Name:	Not reported	
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		Yes
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		Yes
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No

EPTC-HIGHGROVE (Continued) **1000167568**

TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20060905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2001

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D018
Waste Description:	BENZENE
Waste Code:	F001
Waste Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F002
Waste Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND

EPTC-HIGHGROVE (Continued) **1000167568**

SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: SOUTHERN CA EDISON EPTC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 2500 E VICTORIA ST
Owner/Operator City,State,Zip: COMPTON, CA 90220
Owner/Operator Telephone: 310-223-1904
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20020228
Handler Name: EPTC-HIGHGROVE
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19981020
Handler Name: EPTC HIGHGROVE
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No

EPTC-HIGHGROVE (Continued) **1000167568**

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920228
Handler Name: SAN CALIF. EDISON CO. HIGHGROVE GEN. STA
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960227
Handler Name: SOUTHERN CALIFORNIA EDISON
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19990421
Handler Name: HIGHGROVE GENERATING STATION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020228
Handler Name: EPTC-HIGHGROVE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported

EPTC-HIGHGROVE (Continued) **1000167568**

Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 2211
NAICS Description: ELECTRIC POWER GENERATION, TRANSMISSION AND DISTRIBUTION

NAICS Code: 49319
NAICS Description: OTHER WAREHOUSING AND STORAGE

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 19930923
Actual Return to Compliance Date: 19950201
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19930923
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R9
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Ground-Water Monitoring
Date Violation was Determined: 19930923
Actual Return to Compliance Date: 19950201
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported

EPTC-HIGHGROVE (Continued) **1000167568**

Enforcement Identifier: 001
Date of Enforcement Action: 19950201
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R9
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: R9
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Surface Impoundment Standards
Date Violation was Determined: 19930923
Actual Return to Compliance Date: 19950201
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19930923
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R9
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported

EPTC-HIGHGROVE (Continued) **1000167568**

SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Ground-Water Monitoring
Date Violation was Determined: 19930923
Actual Return to Compliance Date: 19950201
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19930923
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R9
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19930923
Actual Return to Compliance Date: 19950201
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported

EPTC-HIGHGROVE (Continued) **1000167568**

Enforcement Identifier: 001
Date of Enforcement Action: 19950201
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R9
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: R9
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Surface Impoundment Standards
Date Violation was Determined: 19930923
Actual Return to Compliance Date: 19950201
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19950201
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R9
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: R9
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported

EPTC-HIGHGROVE (Continued) **1000167568**

SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19930923
Actual Return to Compliance Date: 19950201
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19930923
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R9
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 19930923
Actual Return to Compliance Date: 19950201
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported

EPTC-HIGHGROVE (Continued) **1000167568**

Enforcement Identifier:	001
Date of Enforcement Action:	19950201
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R9
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	R9
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19930819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	R9
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19950201
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	R9
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19950201
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

EPTC-HIGHGROVE (Continued) **1000167568**

Evaluation Date:	19930819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	R9
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19950201
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	R9
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19950201
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	R9
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19950201
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	R9
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19950201
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	R9

EPTC-HIGHGROVE (Continued) **1000167568**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19950201
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	R9
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19950201
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

L74 **EPTC-HIGHGROVE** **ENVIROSTOR** **S104573777**
SSW **12600 TAYLOR ST** **HWP** **N/A**
1/2-1 **COLTON, CA 92324** **CERS**
0.923 mi.
4875 ft. **Site 2 of 2 in cluster L**

Relative: **Lower**
Actual: **950 ft.**

ENVIROSTOR:

Name:	EPTC-HIGHGROVE
Address:	12600 TAYLOR ST
City,State,Zip:	COLTON, CA 923240000
Facility ID:	80001332
Status:	No Further Action
Status Date:	08/06/2014
Site Code:	530039
Site Type:	Corrective Action
Site Type Detailed:	Corrective Action
Acres:	39
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	WM
Program Manager:	Steven Rounds
Supervisor:	Allan Plaza
Division Branch:	Cleanup Chatsworth
Assembly:	47
Senate:	20
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	34.02263
Longitude:	-117.3313
APN:	NONE SPECIFIED
Past Use:	WASTE WATER PONDS
Potential COC:	Polychlorinated biphenyls (PCBs Vanadium and compounds
Confirmed COC:	30587-NO 30018-NO
Potential Description:	SOIL

EPTC-HIGHGROVE (Continued) **S104573777**

Alias Name: AES Highgrove
Alias Type: Alternate Name
Alias Name: Riverside Canal Company
Alias Type: Alternate Name
Alias Name: SCE Highgrove
Alias Type: Alternate Name
Alias Name: CAD000631028
Alias Type: EPA Identification Number
Alias Name: 400440
Alias Type: Project Code (Site Code)
Alias Name: 530039
Alias Type: Project Code (Site Code)
Alias Name: 80001332
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Site Wide Corrective Action
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 01/31/2008
Comments: RFI Work Plan approved

Completed Area Name: RCRA Surface Impoundments
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 12/15/2006
Comments: CDR was accepted by DTSC and the RCRA basin is considered clean closed
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 11/14/2012
Comments: Characterization complete. HERO to review cumulative risk

Completed Area Name: Site Wide Corrective Action
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 05/13/2010
Comments: DTSC error, report was misplaced and consultant never contacted DTSC for a follow up letter until the following year.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 10/24/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 09/11/2013
Comments: RFI portion of Corrective Action is deemed technically complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 09/11/2013

EPTC-HIGHGROVE (Continued) **S104573777**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Judicial Order
Completed Date: 02/06/1995
Comments: Order signed and recorded.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Action Completion Determination
Completed Date: 12/17/2013
Comments: No further action. Remedy complete

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 06/19/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 05/13/2010
Comments: RFA was submitted and DTSC did various site visits ect and concurred with the findings.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HWP:
EPA ID: CAD000631028
Name: EPTC-HIGHGROVE
Address: 12600 TAYLOR ST
Cleanup Status: CLOSED
Latitude: 34.02263
Longitude: -117.3313
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Supervisor: Not reported
Site Code: 400440, 530039
Senate District: 20
Assembly District: 47
Public Information Officer: Not reported
Commercial Offsite Facility Types: Not reported
Quarterly Update: Active facility under going corrective action: In 1995, A Final Judgment Pursuant to Stipulation required SCE to close its retention basins and boiler chemical cleaning basins according to RCRA closure requirements. The facility operated two retention basins which were 35-foot square shaped basins and built originally in 1970 s. A 45-mil

EPTC-HIGHGROVE (Continued) **S104573777**

liner was installed in 1978 and an 80- mil liner was installed over the existing liner. Soil and soil gas samples were taken from retention basins and their pipelines. Metals were detected in soil matrix samples and small amount of TCE and MTBE was detected in soil gas samples. Further investigation at deeper depth concluded that no basin liquid had leaked to the soil beneath the liner. However, due to the detection of some liquid and detection of VOC in soil vapor samples, groundwater investigation was requested. The basins received clean closure in 2006. Currently, the new owner, a sub of AES, are planning to repower the facility and have conducted partial RFI work.

Project Manager Lead: Not reported
Project Manager: Not reported
Permit Type: RCRA
Permit Effective Date: Not reported
Permit Expiration Date: Not reported
Calenviroscreen Score: 61-65%
Total Planned Hours: Not reported
Total Planned Amount: Not reported
Total Actual Hours: Not reported

Closure:

EPA ID: CAD000631028
Facility Type: Historical - Non-Operating
Facility Name: EPTC-HIGHGROVE
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Size: Not reported
Facility Status: CLOSED
Activity Type: Closure Final
Final Date: Not reported
Type: RCRA
Title Description: Closure
Due Date: Not reported
Comments: Not reported
Unit Names: Waste Water Retension Basin (East), Waste Water Retension Basin (West)
Event Description: Closure Final - RECEIVE CLOSURE CERTIFICATION
Actual Date: 12/22/2006

EPA ID: CAD000631028
Facility Type: Historical - Non-Operating
Facility Name: EPTC-HIGHGROVE
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Size: Not reported
Facility Status: CLOSED
Activity Type: Closure Final
Final Date: Not reported
Type: RCRA
Title Description: Closure
Due Date: Not reported
Comments: Not reported
Unit Names: Waste Water Retension Basin (East), Waste Water Retension Basin (West)
Event Description: Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date: 02/23/2007

EPTC-HIGHGROVE (Continued) **S104573777**

Alias:

EPA ID:	CAD000631028
Facility Type:	Historical - Non-Operating
Facility Name:	EPTC-HIGHGROVE
Facility Status:	CLOSED
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Alias Type:	Project Code (Site Code)
Alias:	400440

EPA ID:	CAD000631028
Facility Type:	Historical - Non-Operating
Facility Name:	EPTC-HIGHGROVE
Facility Status:	CLOSED
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Alias Type:	Project Code (Site Code)
Alias:	530039

EPA ID:	CAD000631028
Facility Type:	Historical - Non-Operating
Facility Name:	EPTC-HIGHGROVE
Facility Status:	CLOSED
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Alias Type:	Alternate Name
Alias:	AES Highgrove

EPA ID:	CAD000631028
Facility Type:	Historical - Non-Operating
Facility Name:	EPTC-HIGHGROVE
Facility Status:	CLOSED
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Alias Type:	Alternate Name
Alias:	Riverside Canal Company

EPA ID:	CAD000631028
Facility Type:	Historical - Non-Operating
Facility Name:	EPTC-HIGHGROVE
Facility Status:	CLOSED
Project Manager:	Not reported
Project Manager Lead:	Not reported
Supervisor:	Not reported
Alias Type:	Alternate Name
Alias:	SCE Highgrove

CERS:

Name:	EPTC-HIGHGROVE
Address:	12600 TAYLOR ST
City,State,Zip:	COLTON, CA 923240000

EPTC-HIGHGROVE (Continued) **S104573777**

Site ID: 607280
CERS ID: CAD000631028
CERS Description: Hazardous Waste

Affiliation:
Affiliation Type Desc: Facility Contact
Entity Name: SARA M. DUVALL
Entity Title: Not reported
Affiliation Address: P.O. BOX 800
Affiliation City: ROSEMEAD
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91770
Affiliation Phone: 6268628458,

Affiliation Type Desc: Lead Project Manager
Entity Name: Steven Rounds
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Owner
Entity Name: Southern California Edison
Entity Title: Not reported
Affiliation Address: PO BOX 800
Affiliation City: ROSEMEAD
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 917700000
Affiliation Phone: 6268628458,

Affiliation Type Desc: Supervisor
Entity Name: Allan Plaza
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Name: EPTC-HIGHGROVE
Address: 12600 TAYLOR ST
City,State,Zip: COLTON, CA 923240000
Site ID: 607280
CERS ID: 80001332
CERS Description: Corrective Action

Affiliation:
Affiliation Type Desc: Facility Contact
Entity Name: SARA M. DUVALL
Entity Title: Not reported
Affiliation Address: P.O. BOX 800

EPTC-HIGHGROVE (Continued) **S104573777**

Affiliation City:	ROSEMEAD
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91770
Affiliation Phone:	6268628458,
Affiliation Type Desc:	Lead Project Manager
Entity Name:	Steven Rounds
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Facility Owner
Entity Name:	Southern California Edison
Entity Title:	Not reported
Affiliation Address:	PO BOX 800
Affiliation City:	ROSEMEAD
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	917700000
Affiliation Phone:	6268628458,
Affiliation Type Desc:	Supervisor
Entity Name:	Allan Plaza
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Count: 2 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
COLTON	S103771189	S P EAST COLTON YARD	MOUNT VERNON	92324	LUST
RIVERSIDE	S107526644		1/4 ML W OF KRAMEDIA ST & BART	92507	CDL

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 02/03/2023
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 08/25/2022
Date Data Arrived at EDR: 09/06/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 11/21/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 11/21/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/21/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 11/21/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/21/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/02/2022
Date Data Arrived at EDR: 11/08/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 63

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/03/2023
Next Scheduled EDR Contact: 05/22/2023
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 08/15/2022
Date Data Arrived at EDR: 08/17/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 68

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/16/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 08/15/2022
Date Data Arrived at EDR: 08/17/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 68

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/16/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/12/2022
Date Data Arrived at EDR: 12/14/2022
Date Made Active in Reports: 12/19/2022
Number of Days to Update: 5

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/24/2022
Date Data Arrived at EDR: 10/24/2022
Date Made Active in Reports: 01/12/2023
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/24/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/24/2022
Date Data Arrived at EDR: 10/24/2022
Date Made Active in Reports: 01/12/2023
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/24/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/03/2022
Date Data Arrived at EDR: 11/03/2022
Date Made Active in Reports: 01/25/2023
Number of Days to Update: 83

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/03/2022
Next Scheduled EDR Contact: 02/20/2023
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/17/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Quarterly

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 06/02/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 79

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/11/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/28/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/17/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/28/2022
Number of Days to Update: 89
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Semi-Annually

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 08/24/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/21/2022
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/17/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 06/02/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 79

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/28/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/14/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/11/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/07/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/24/2022
Date Data Arrived at EDR: 10/24/2022
Date Made Active in Reports: 01/12/2023
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/24/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/13/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/19/2022
Date Data Arrived at EDR: 09/19/2022
Date Made Active in Reports: 12/07/2022
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/07/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/18/2022
Number of Days to Update: 79

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 08/12/2022
Date Data Arrived at EDR: 08/16/2022
Date Made Active in Reports: 08/26/2022
Number of Days to Update: 10

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/03/2023
Next Scheduled EDR Contact: 05/22/2023
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 07/29/2022
Date Data Arrived at EDR: 08/18/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 67

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/24/2022
Date Data Arrived at EDR: 10/24/2022
Date Made Active in Reports: 01/12/2023
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/24/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 01/05/2023
Date Data Arrived at EDR: 01/06/2023
Date Made Active in Reports: 01/11/2023
Number of Days to Update: 5

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 07/29/2022
Date Data Arrived at EDR: 08/18/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 67

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 11/03/2022
Date Data Arrived at EDR: 11/07/2022
Date Made Active in Reports: 01/24/2023
Number of Days to Update: 78

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 01/06/2023
Date Data Arrived at EDR: 01/06/2023
Date Made Active in Reports: 01/11/2023
Number of Days to Update: 5

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/17/2022
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 08/24/2022
Date Made Active in Reports: 11/14/2022
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 08/25/2022
Date Data Arrived at EDR: 08/25/2022
Date Made Active in Reports: 11/14/2022
Number of Days to Update: 81

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 11/29/2022
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/19/2022
Date Data Arrived at EDR: 09/19/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 11

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 08/02/2022
Date Data Arrived at EDR: 10/17/2022
Date Made Active in Reports: 01/04/2023
Number of Days to Update: 79

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/17/2022
Number of Days to Update: 78

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/17/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 11/21/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 08/11/2022
Date Data Arrived at EDR: 08/11/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 50
Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/10/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239
Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574
Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63
Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 05/22/2023
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/19/2022
Date Data Arrived at EDR: 09/20/2022
Date Made Active in Reports: 12/22/2022
Number of Days to Update: 93
Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 01/30/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/03/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/12/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/01/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 10/17/2022
Date Data Arrived at EDR: 10/18/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 84

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/18/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/04/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 64

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/04/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/26/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 13
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 84
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 11/29/2022
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 11/23/2022
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/03/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 12/20/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/24/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2022
Date Data Arrived at EDR: 10/21/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 81

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/30/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/09/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 11/29/2022
Date Data Arrived at EDR: 11/30/2022
Date Made Active in Reports: 12/22/2022
Number of Days to Update: 22

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Quarterly

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/03/2022
Date Data Arrived at EDR: 08/17/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 14

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/17/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/21/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/21/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines
An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/13/2022
Date Data Arrived at EDR: 09/14/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 82

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/13/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/03/2022
Date Data Arrived at EDR: 08/25/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 60

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 11/29/2022
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/15/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 11/09/2021
Date Data Arrived at EDR: 10/20/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 82

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/09/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/25/2022
Date Data Arrived at EDR: 09/30/2022
Date Made Active in Reports: 12/22/2022
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/04/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/11/2022
Date Data Arrived at EDR: 08/11/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 50

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/10/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 07/08/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 123

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 01/10/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 01/23/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 10/26/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 10/31/2022
Number of Days to Update: 61

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 09/06/2022
Date Data Arrived at EDR: 09/06/2022
Date Made Active in Reports: 10/26/2022
Number of Days to Update: 50

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 10/09/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/19/2022
Date Data Arrived at EDR: 09/19/2022
Date Made Active in Reports: 12/07/2022
Number of Days to Update: 79

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 12/07/2021
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 05/17/2022
Number of Days to Update: 8

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 11/10/2022
Next Scheduled EDR Contact: 02/20/2023
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 11/14/2022
Date Data Arrived at EDR: 11/14/2022
Date Made Active in Reports: 02/01/2023
Number of Days to Update: 79

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 11/14/2022
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 08/18/2022
Date Data Arrived at EDR: 08/29/2022
Date Made Active in Reports: 11/14/2022
Number of Days to Update: 77

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 11/15/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/27/2021
Date Data Arrived at EDR: 09/01/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 79

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 01/24/2023
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/30/2022
Number of Days to Update: 78

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/15/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 10/17/2022
Date Data Arrived at EDR: 10/19/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 83

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 01/18/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 10/12/2022
Date Data Arrived at EDR: 10/12/2022
Date Made Active in Reports: 12/29/2022
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/09/2022
Date Data Arrived at EDR: 08/10/2022
Date Made Active in Reports: 08/30/2022
Number of Days to Update: 20

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/03/2023
Next Scheduled EDR Contact: 05/22/2023
Data Release Frequency: Varies

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/10/2022
Date Data Arrived at EDR: 11/10/2022
Date Made Active in Reports: 02/01/2023
Number of Days to Update: 83

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 11/10/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/10/2022
Date Data Arrived at EDR: 11/10/2022
Date Made Active in Reports: 02/01/2023
Number of Days to Update: 83

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/10/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/03/2022
Date Data Arrived at EDR: 10/03/2022
Date Made Active in Reports: 12/15/2022
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/04/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 07/05/2022
Date Made Active in Reports: 09/19/2022
Number of Days to Update: 76

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Annually

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/18/2022
Number of Days to Update: 79
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/25/2022
Date Made Active in Reports: 11/14/2022
Number of Days to Update: 81
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 11/29/2022
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/03/2022
Date Data Arrived at EDR: 11/03/2022
Date Made Active in Reports: 01/25/2023
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/03/2022
Next Scheduled EDR Contact: 02/20/2023
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 08/25/2022
Date Data Arrived at EDR: 08/25/2022
Date Made Active in Reports: 11/14/2022
Number of Days to Update: 81
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 11/29/2022
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/18/2022
Number of Days to Update: 79
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/07/2022
Date Data Arrived at EDR: 09/08/2022
Date Made Active in Reports: 11/29/2022
Number of Days to Update: 82
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/18/2022
Number of Days to Update: 79
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/17/2022
Number of Days to Update: 78
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/08/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/13/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/17/2022
Number of Days to Update: 78
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/17/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/18/2022
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 08/16/2022
Date Data Arrived at EDR: 08/17/2022
Date Made Active in Reports: 08/18/2022
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 11/29/2022
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 01/05/2023
Date Data Arrived at EDR: 01/06/2023
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 4

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/17/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/17/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/17/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/17/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/17/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Varies

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Semi-Annually

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 11/22/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System
DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/05/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 04/26/2022
Number of Days to Update: 21

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29
Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 09/28/2022
Date Data Arrived at EDR: 09/29/2022
Date Made Active in Reports: 12/14/2022
Number of Days to Update: 76

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 07/22/2022
Date Data Arrived at EDR: 07/27/2022
Date Made Active in Reports: 08/01/2022
Number of Days to Update: 5

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 12/13/2022
Date Data Arrived at EDR: 12/15/2022
Date Made Active in Reports: 12/21/2022
Number of Days to Update: 6

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/13/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 10/20/2022
Date Data Arrived at EDR: 10/21/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 81

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 05/04/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 83

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 02/03/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/09/2022
Date Made Active in Reports: 09/01/2022
Number of Days to Update: 23

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 12/29/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/08/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 10/11/2022
Date Data Arrived at EDR: 10/12/2022
Date Made Active in Reports: 12/29/2022
Number of Days to Update: 78

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/08/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 10/03/2022
Date Data Arrived at EDR: 10/05/2022
Date Made Active in Reports: 12/16/2022
Number of Days to Update: 72

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 10/03/2022
Date Data Arrived at EDR: 10/05/2022
Date Made Active in Reports: 12/16/2022
Number of Days to Update: 72

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/08/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 11/04/2022
Date Data Arrived at EDR: 11/07/2022
Date Made Active in Reports: 01/25/2023
Number of Days to Update: 79

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/09/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 10/03/2022
Date Data Arrived at EDR: 10/04/2022
Date Made Active in Reports: 12/15/2022
Number of Days to Update: 72

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/07/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/21/2022
Number of Days to Update: 75

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/10/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 01/21/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 80

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/13/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 01/10/2022
Date Data Arrived at EDR: 01/12/2022
Date Made Active in Reports: 04/04/2022
Number of Days to Update: 82

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 08/30/2022
Date Data Arrived at EDR: 09/20/2022
Date Made Active in Reports: 12/07/2022
Number of Days to Update: 78

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 08/30/2022
Date Data Arrived at EDR: 09/20/2022
Date Made Active in Reports: 12/08/2022
Number of Days to Update: 79

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/18/2022
Date Data Arrived at EDR: 10/19/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 83

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/08/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 12/19/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/15/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/15/2022
Date Data Arrived at EDR: 02/17/2022
Date Made Active in Reports: 05/11/2022
Number of Days to Update: 83

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 01/31/2023
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/15/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 02/03/2023
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/15/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/15/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 10/27/2022
Date Made Active in Reports: 01/18/2023
Number of Days to Update: 83

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/24/2022
Date Data Arrived at EDR: 08/09/2022
Date Made Active in Reports: 10/28/2022
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 01/31/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 08/03/2022
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 01/31/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 05/24/2022
Date Data Arrived at EDR: 08/01/2022
Date Made Active in Reports: 10/20/2022
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 01/31/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/26/2022
Date Data Arrived at EDR: 08/29/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 78

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 11/22/2022
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 09/22/2022
Date Data Arrived at EDR: 09/26/2022
Date Made Active in Reports: 12/09/2022
Number of Days to Update: 74

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 09/22/2022
Date Data Arrived at EDR: 09/26/2022
Date Made Active in Reports: 12/09/2022
Number of Days to Update: 74

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 06/18/2021
Date Data Arrived at EDR: 09/28/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 77

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/04/2022
Date Data Arrived at EDR: 06/30/2022
Date Made Active in Reports: 07/05/2022
Number of Days to Update: 5

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/09/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 10/28/2022
Date Made Active in Reports: 01/18/2023
Number of Days to Update: 82

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 08/22/2022
Date Data Arrived at EDR: 08/23/2022
Date Made Active in Reports: 11/11/2022
Number of Days to Update: 80

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 01/30/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 08/25/2022
Date Data Arrived at EDR: 08/25/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 82

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 11/29/2022
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/27/2021
Date Data Arrived at EDR: 03/04/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 88

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 11/22/2022
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 11/03/2022
Date Data Arrived at EDR: 11/07/2022
Date Made Active in Reports: 01/25/2023
Number of Days to Update: 79

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/03/2022
Date Data Arrived at EDR: 11/07/2022
Date Made Active in Reports: 01/24/2023
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Quarterly

SAN FRANCISO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing
a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 10/11/2022
Date Data Arrived at EDR: 10/14/2022
Date Made Active in Reports: 01/04/2023
Number of Days to Update: 82

Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/08/2022
Date Data Arrived at EDR: 11/09/2022
Date Made Active in Reports: 02/01/2023
Number of Days to Update: 84

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/08/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/09/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 11/30/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/08/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 10/28/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 01/20/2023
Number of Days to Update: 80
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 10/28/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22
Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/15/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/08/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/08/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/22/2022
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/22/2022
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/13/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/13/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 01/09/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 08/03/2022
Date Data Arrived at EDR: 08/25/2022
Date Made Active in Reports: 11/14/2022
Number of Days to Update: 81

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 11/23/2022
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 07/27/2022
Date Data Arrived at EDR: 07/27/2022
Date Made Active in Reports: 10/11/2022
Number of Days to Update: 76

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 10/11/2022
Date Data Arrived at EDR: 10/12/2022
Date Made Active in Reports: 12/29/2022
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 10/07/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/21/2022
Number of Days to Update: 75

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/26/2022
Date Data Arrived at EDR: 10/19/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 83

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/19/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 05/22/2023
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/26/2022
Date Data Arrived at EDR: 10/20/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 82

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/29/2022
Date Data Arrived at EDR: 08/31/2022
Date Made Active in Reports: 11/21/2022
Number of Days to Update: 82

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/02/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 09/21/2022
Date Data Arrived at EDR: 09/30/2022
Date Made Active in Reports: 12/14/2022
Number of Days to Update: 75

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/19/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 10/25/2022
Date Data Arrived at EDR: 10/26/2022
Date Made Active in Reports: 10/31/2022
Number of Days to Update: 5

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/08/2022
Date Made Active in Reports: 10/21/2022
Number of Days to Update: 74

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/16/2022
Next Scheduled EDR Contact: 02/20/2023
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 12/20/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/01/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.
Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.
Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CA5204
22115 BARTON ROAD
GRAND TERRACE, CA 92313

TARGET PROPERTY COORDINATES

Latitude (North):	34.033526 - 34ˆ 2’ 0.69’’
Longitude (West):	117.322034 - 117ˆ 19’ 19.32’’
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	470271.8
UTM Y (Meters):	3765725.5
Elevation:	998 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	12016021 SAN BERNARDINO SOUTH, CA
Version Date:	2018

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

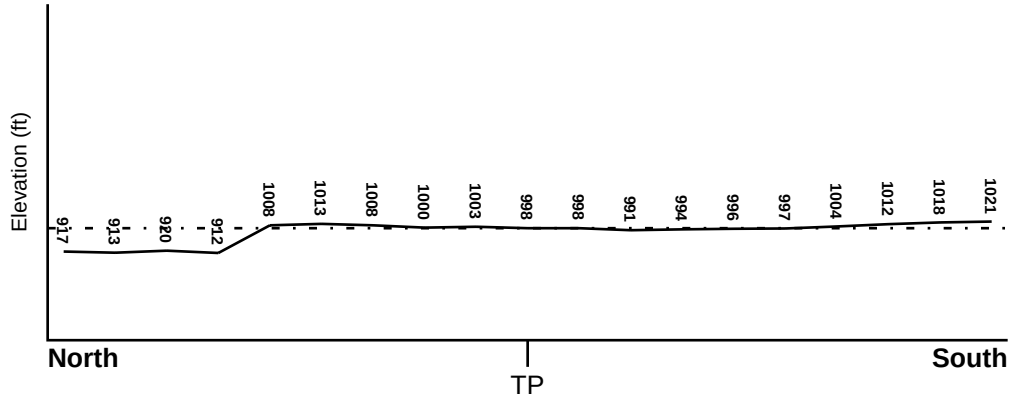
TOPOGRAPHIC INFORMATION

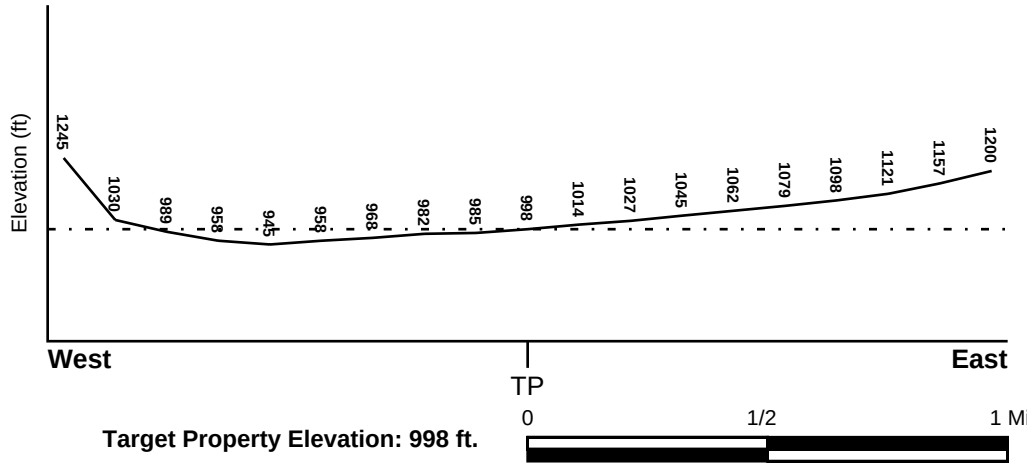
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 998 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06065C0065G	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06071C8691H	FEMA FIRM Flood data
06071C8689H	FEMA FIRM Flood data
06071C8693H	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NOT AVAILABLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1 - 2 Miles NNW
Site Name:	Griffin Wheel Dump
Site EPA ID Number:	CAD983633744
Groundwater Flow Direction:	INFLUENCED BY THE NEARBY SANTA ANA RIVER THAT LOSES WATER DURING HIGH FLOW CONDITIONS AND GAINS WATER DURING LOW FLOW CONDITIONS.
Measured Depth to Water:	less than 20 feet to more than 45 feet.
Hydraulic Connection:	The water table aquifer is interconnected with the Santa Ana River. Aquifers underlying the site are interconnected.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site--specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

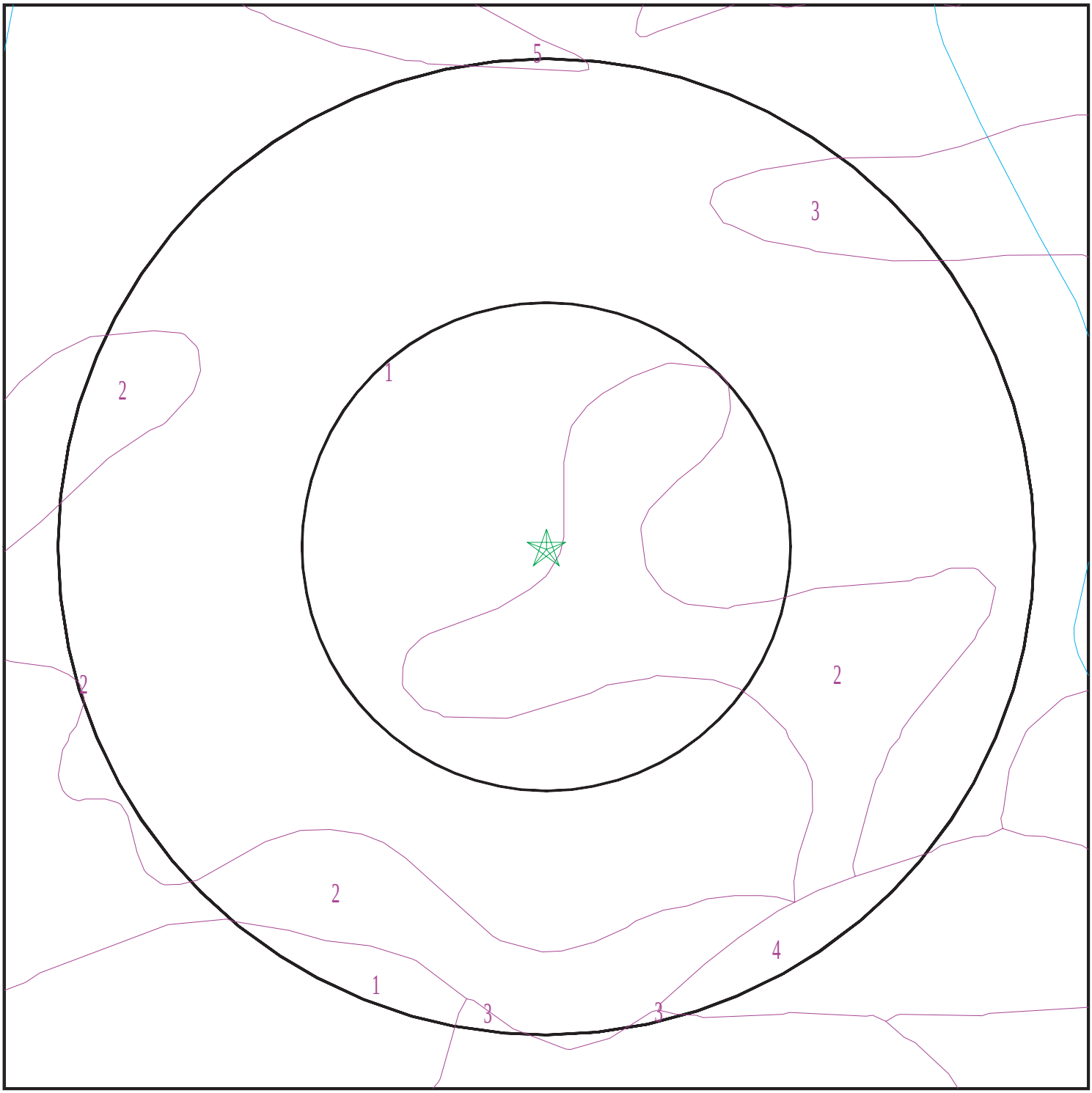
Era:	Paleozoic
System:	Pennsylvanian
Series:	Upper Paleozoic
Code:	uPze *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Eugeosynclinal Deposits

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7244253.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	CA5204	CLIENT:	Farallon Consulting, LLC
ADDRESS:	22115 Barton Road Grand Terrace CA 92313	CONTACT:	Amanda Garcia
LAT/LONG:	34.033526 / 117.322034	INQUIRY #:	7244253.2s
		DATE:	February 06, 2023 9:26 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: GREENFIELD

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.6
2	16 inches	50 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.6
3	50 inches	59 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: MONSERATE

Soil Surface Texture: sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
2	9 inches	29 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
3	29 inches	44 inches	indurated	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
4	44 inches	59 inches	coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 3

Soil Component Name: RAMONA

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	22 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.6
2	22 inches	31 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.6
3	31 inches	53 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.6
4	53 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.6

Soil Map ID: 4

Soil Component Name: Hanford

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 5.6
2	11 inches	59 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 5.6

Soil Map ID: 5

Soil Component Name: Saugus

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: 4 Min: 1.4	Max: Min:
2	7 inches	40 inches	loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: 4 Min: 1.4	Max: Min:
3	40 inches	44 inches	weathered bedrock	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: 4 Min: 1.4	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C8	USGS40000139913	1/8 - 1/4 Mile SW
11	USGS40000139953	1/4 - 1/2 Mile ENE
K30	USGS40000139996	1/2 - 1 Mile NNW
L31	USGS40000140022	1/2 - 1 Mile North
L32	USGS40000140021	1/2 - 1 Mile North
J33	USGS40000139976	1/2 - 1 Mile WNW
K34	USGS40000140006	1/2 - 1 Mile NNW
M35	USGS40000140012	1/2 - 1 Mile NNW
O44	USGS40000140027	1/2 - 1 Mile NNE
M45	USGS40000140019	1/2 - 1 Mile NNW
K46	USGS40000140007	1/2 - 1 Mile NNW
47	USGS40000140040	1/2 - 1 Mile NNE
O48	USGS40000140051	1/2 - 1 Mile North
P49	USGS40000140023	1/2 - 1 Mile NNW
Q50	USGS40000139990	1/2 - 1 Mile NW
51	USGS40000140054	1/2 - 1 Mile North
R52	USGS40000140013	1/2 - 1 Mile NW
R54	USGS40000140028	1/2 - 1 Mile NNW
P55	USGS40000140041	1/2 - 1 Mile NNW
59	USGS40000140045	1/2 - 1 Mile NNW
61	USGS40000140039	1/2 - 1 Mile NE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

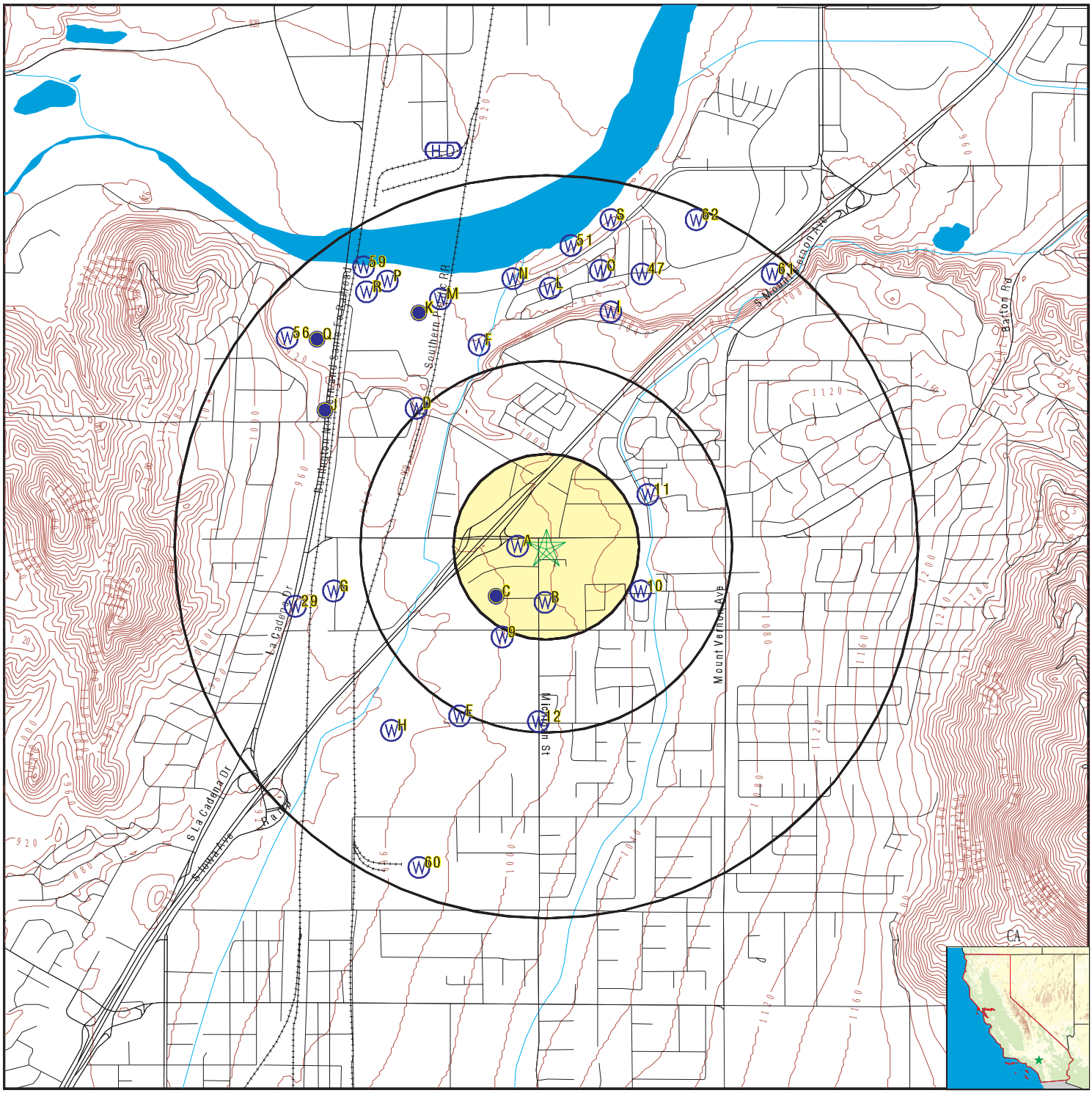
MAP ID	WELL ID	LOCATION FROM TP
A1	CAEDF0000089702	0 - 1/8 Mile West
A2	CAEDF0000020898	0 - 1/8 Mile West
A3	CAEDF0000035193	0 - 1/8 Mile West
A4	CAEDF0000100034	0 - 1/8 Mile West
B5	2452	1/8 - 1/4 Mile SSW
B6	CADDW0000003348	1/8 - 1/4 Mile South
C7	CADWR0000021033	1/8 - 1/4 Mile SW
9	CADPR0000005248	1/4 - 1/2 Mile SSW
10	CADPR0000001779	1/4 - 1/2 Mile ESE
12	CADPR0000003129	1/4 - 1/2 Mile South
D13	CADDW0000008384	1/4 - 1/2 Mile NW
E14	CADDW0000004633	1/2 - 1 Mile SSW
E15	CAPFAS000000235	1/2 - 1 Mile SSW
D16	CADWR0000018741	1/2 - 1 Mile NW
E17	2453	1/2 - 1 Mile SSW
D18	972	1/2 - 1 Mile NW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
F19	3075	1/2 - 1 Mile NNW
F20	CADPR0000000164	1/2 - 1 Mile NNW
G21	CADWR0000035374	1/2 - 1 Mile WSW
G22	CADWR0000004122	1/2 - 1 Mile WSW
F23	970	1/2 - 1 Mile NNW
H24	CADDW0000005687	1/2 - 1 Mile SW
I25	CADWR0000013480	1/2 - 1 Mile NNE
I26	CADWR0000018287	1/2 - 1 Mile NNE
H27	2454	1/2 - 1 Mile SW
J28	CADWR0000028143	1/2 - 1 Mile NW
29	CADPR0000002388	1/2 - 1 Mile WSW
K36	CADWR0000014650	1/2 - 1 Mile NNW
K37	CADWR0000026592	1/2 - 1 Mile NNW
K38	CADWR0000027847	1/2 - 1 Mile NNW
K39	CADWR0000014639	1/2 - 1 Mile NNW
K40	CADWR0000027776	1/2 - 1 Mile NNW
K41	CADWR0000024115	1/2 - 1 Mile NNW
N42	CADDW0000007407	1/2 - 1 Mile North
N43	CAPFAS000000280	1/2 - 1 Mile North
Q53	CADDW0000018783	1/2 - 1 Mile NW
56	971	1/2 - 1 Mile NW
S57	CADWR0000014649	1/2 - 1 Mile North
S58	CADWR0000007428	1/2 - 1 Mile North
60	CADWR0000028276	1/2 - 1 Mile SSW
62	CADWR0000022997	1/2 - 1 Mile NNE

PHYSICAL SETTING SOURCE MAP - 7244253.2s



County Boundary
Major Roads
Contour Lines
Earthquake Fault Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
Oil, gas or related wells

N

SITE NAME:	CA5204	CLIENT:	Farallon Consulting, LLC
ADDRESS:	22115 Barton Road Grand Terrace CA 92313	CONTACT:	Amanda Garcia
LAT/LONG:	34.033526 / 117.322034	INQUIRY #:	7244253.2s
		DATE:	February 06, 2023 9:25 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
West
0 - 1/8 Mile
Lower

CA WELLS **CAEDF0000089702**

Well ID:	T0607135873-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607135873&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607135873&assigned_name=MW-4		

A2
West
0 - 1/8 Mile
Lower

CA WELLS **CAEDF0000020898**

Well ID:	T0607135873-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607135873&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607135873&assigned_name=MW-3		

A3
West
0 - 1/8 Mile
Lower

CA WELLS **CAEDF0000035193**

Well ID:	T0607135873-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607135873&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607135873&assigned_name=MW-1		

A4
West
0 - 1/8 Mile
Lower

CA WELLS **CAEDF0000100034**

Well ID:	T0607135873-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607135873&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607135873&assigned_name=MW-5		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

B5
SSW
1/8 - 1/4 Mile
Lower

CA WELLS **2452**

Seq:	2452	Prim sta c:	02S/04W-05C01 S
Frds no:	3310031012	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	DEBERRY	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340153.1	Longitude:	1171918.4
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		
Sample date:	25-JAN-17	Finding:	3.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	16-JUN-16	Finding:	3.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	16-JUN-16	Finding:	1.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-JUN-16	Finding:	1.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-DEC-13	Finding:	0.12
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	26-DEC-13	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	07-SEP-12	Finding:	260.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUL-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-JUL-12	Finding:	1.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	06-JUL-12	Finding:	2.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

B6
South **CA WELLS** **CADDW0000003348**
1/8 - 1/4 Mile
Higher

Well ID:	3310031-012	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	DEBERRY - INACTIVE	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-012&store_num=		
GeoTracker Data:	Not Reported		

C7
SW **CA WELLS** **CADWR0000021033**
1/8 - 1/4 Mile
Lower

Well ID:	02S04W05C001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S04W05C001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S04W05C001S&store_num=		
GeoTracker Data:	Not Reported		

C8
SW **FED USGS** **USGS40000139913**
1/8 - 1/4 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S004W05C001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	266
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

9
SSW **CA WELLS** **CADPR0000005248**
1/4 - 1/2 Mile
Lower

Well ID:	78624	Well Type:	UNK
Source:	Department of Pesticide Regulation		
Other Name:	78624	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=78624&store_num=		

GeoTracker Data: Not Reported

10
ESE **CA WELLS** **CADPR0000001779**
1/4 - 1/2 Mile
Higher

Well ID:	78625	Well Type:	UNK
Source:	Department of Pesticide Regulation		
Other Name:	78625	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=78625&store_num=		
GeoTracker Data:	Not Reported		

11
ENE **FED USGS** **USGS40000139953**
1/4 - 1/2 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W32Q001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19070101	Well Depth:	239
Well Depth Units:	ft	Well Hole Depth:	239
Well Hole Depth Units:	ft		

12
South **CA WELLS** **CADPR0000003129**
1/4 - 1/2 Mile
Lower

Well ID:	78623	Well Type:	UNK
Source:	Department of Pesticide Regulation		
Other Name:	78623	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=78623&store_num=		
GeoTracker Data:	Not Reported		

D13
NW **CA WELLS** **CADDW0000008384**
1/4 - 1/2 Mile
Lower

Well ID:	3610057-003	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	LINDA VISTA 03 - INACTIVE	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610057-003&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E14
SSW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000004633**

Well ID:	3310031-095	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	VAN BUREN WELL 01	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-095&store_num=		
GeoTracker Data:	Not Reported		

E15
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAPFAS000000235**

Well ID:	3310031-095	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	VAN BUREN WELL 01	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-095&store_num=		
GeoTracker Data:	Not Reported		

D16
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000018741**

Well ID:	01S04W32M001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W32M001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S04W32M001S&store_num=		
GeoTracker Data:	Not Reported		

E17
SSW
1/2 - 1 Mile
Lower

CA WELLS **2453**

Seq:	2453	Prim sta c:	02S/04W-05E01 S
Frds no:	3310031095	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	VAN BUREN WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	340137.8	Longitude:	1171933.9
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310031	System nam:	Riverside, City Of

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		
Sample date:	25-JAN-18	Finding:	7.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-JAN-18	Finding:	0.8
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JAN-18	Finding:	0.43
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JAN-18	Finding:	0.84
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	19-OCT-17	Finding:	0.72
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	19-OCT-17	Finding:	4.1e-002
Chemical:	DIBROMOCHLOROPROPANE (DBCP)	Report units:	UG/L
Dlr:	1.e-002		
Sample date:	19-OCT-17	Finding:	7.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-AUG-17	Finding:	0.66
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	28-JUL-17	Finding:	6.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-JUL-17	Finding:	0.63
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	06-APR-17	Finding:	0.69
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	06-APR-17	Finding:	5.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-MAR-17	Finding:	4.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-OCT-16	Finding:	0.66
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		

Sample date:	27-OCT-16	Finding:	5.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-SEP-16	Finding:	5.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-JUL-16	Finding:	0.58
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	34.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	55.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	12-MAY-16	Finding:	0.54
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	12-MAY-16	Finding:	180.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	12-MAY-16	Finding:	4.9
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	12-MAY-16	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	2.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-MAY-16	Finding:	380.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	0.17
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	12-MAY-16	Finding:	0.59
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	5.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	12-MAY-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	3.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	44.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	11.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	60.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	200.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	5.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-MAY-16	Finding:	590.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	210.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	29-OCT-15	Finding:	4.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-OCT-15	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-OCT-15	Finding:	5.2
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	29-OCT-15	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	29-OCT-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-JUL-15	Finding:	21.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-JUL-15	Finding:	5.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	30-JUL-15	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-JUL-15	Finding:	3.5
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	30-JUL-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-APR-15	Finding:	4.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	17-APR-15	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-APR-15	Finding:	4.9
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	17-APR-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-OCT-14	Finding:	3.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	23-OCT-14	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-OCT-14	Finding:	4.5
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	23-OCT-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-APR-14	Finding:	4.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-APR-14	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

Dlr:	0.		
Sample date:	02-APR-14	Finding:	5.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	02-APR-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-OCT-13	Finding:	3.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	03-OCT-13	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-OCT-13	Finding:	4.4
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	03-OCT-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	9.6
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	3600.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-MAY-13	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	0.26
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	23-MAY-13	Finding:	0.72
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	330.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	5.
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	23-MAY-13	Finding:	160.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-MAY-13	Finding:	0.58
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	23-MAY-13	Finding:	48.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	23-MAY-13	Finding:	520.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	190.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	170.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	54.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	42.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	3.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	30.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	17-APR-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-APR-13	Finding:	3.1
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	17-APR-13	Finding:	2.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-APR-13	Finding:	3.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	17-JAN-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-JAN-13	Finding:	2.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

Dlr:	0.		
Sample date:	17-JAN-13	Finding:	3.1
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	17-JAN-13	Finding:	3.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-DEC-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-DEC-12	Finding:	3.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-DEC-12	Finding:	2.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-OCT-12	Finding:	2.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-OCT-12	Finding:	3.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-OCT-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	3.2
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-AUG-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	2.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	320.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	0.97
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	0.19
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	17-MAY-12	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		

Sample date:	17-MAY-12	Finding:	2600.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-MAY-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	2.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	5.2
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	17-MAY-12	Finding:	180.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	17-MAY-12	Finding:	0.61
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	17-MAY-12	Finding:	47.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	17-MAY-12	Finding:	26.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	3.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	41.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	9.2
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	53.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	170.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	150.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported

Dlr:	0.		
Sample date:	17-MAY-12	Finding:	490.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	3.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	04-APR-12	Finding:	2.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	04-APR-12	Finding:	2.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-APR-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

D18
NW
1/2 - 1 Mile
Lower

CA WELLS 972

Seq:	972	Prim sta c:	01S/04W-32M04 S
Frds no:	3610057003	County:	36
District:	13	User id:	TAN
System no:	3610057	Water type:	G
Source nam:	LINDA VISTA 03	Station ty:	WELL/AMBNT
Latitude:	340220.0	Longitude:	1171940.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3610057	System nam:	Riverside Highland Water Co
Hqname:	Not Reported	Address:	1450 WASHINGTON ST
City:	COLTON	State:	CA
Zip:	92324	Zip ext:	Not Reported
Pop serv:	14542	Connection:	3873
Area serve:	GRAND TERR/HIGHGROVE-RIVERSIDE		
Sample date:	10-JAN-18	Finding:	6.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	10-JAN-18	Finding:	1.06
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JAN-18	Finding:	4.53
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	10-JAN-18	Finding:	5.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	10-JAN-18	Finding:	0.84
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JAN-18	Finding:	0.201
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JAN-18	Finding:	0.416
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JAN-18	Finding:	0.385
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JAN-18	Finding:	0.365
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-OCT-17	Finding:	5.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-JUN-17	Finding:	5.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-OCT-16	Finding:	4.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JUL-16	Finding:	4.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-APR-16	Finding:	5.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-OCT-15	Finding:	180.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-OCT-15	Finding:	12.2
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-OCT-15	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-OCT-15	Finding:	0.46
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-OCT-15	Finding:	360.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	05-OCT-15	Finding:	50.
Chemical:	BARIUM	Report units:	UG/L

Dlr:	100.		
Sample date:	05-OCT-15	Finding:	3.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-OCT-15	Finding:	0.5
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	05-OCT-15	Finding:	67.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	05-OCT-15	Finding:	30.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	05-OCT-15	Finding:	3.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-OCT-15	Finding:	41.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-OCT-15	Finding:	13.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-OCT-15	Finding:	230.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-OCT-15	Finding:	230.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	05-OCT-15	Finding:	180.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-OCT-15	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-OCT-15	Finding:	670.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	01-APR-15	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-APR-15	Finding:	3.12
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	01-APR-15	Finding:	1.26
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	01-APR-15	Finding:	1.07
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-OCT-13	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-OCT-12	Finding:	36.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-OCT-12	Finding:	3.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-OCT-12	Finding:	22.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	01-OCT-12	Finding:	44.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	01-OCT-12	Finding:	0.8
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	01-OCT-12	Finding:	2.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-OCT-12	Finding:	300.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	01-OCT-12	Finding:	500.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	01-OCT-12	Finding:	7.4
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	01-OCT-12	Finding:	8.8
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-OCT-12	Finding:	140.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	01-OCT-12	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	01-OCT-12	Finding:	0.2
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	01-OCT-12	Finding:	49.
Chemical:	CALCIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	01-OCT-12	Finding:	160.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	01-OCT-12	Finding:	11.6
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		

F19
NNW **CA WELLS** **3075**
1/2 - 1 Mile
Lower

Seq:	3075	Prim sta c:	033/031-002
Frds no:	3310031046	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	GRAND TERRACE BSTR - DISTRIBUTION	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	340227.2	Longitude:	1171927.4
Precision:	1	Status:	DR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		

F20
NNW **CA WELLS** **CADPR0000000164**
1/2 - 1 Mile
Lower

Well ID:	78172	Well Type:	UNK
Source:	Department of Pesticide Regulation		
Other Name:	78172	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=78172&store_num=		
GeoTracker Data:	Not Reported		

G21
WSW **CA WELLS** **CADWR0000035374**
1/2 - 1 Mile
Lower

Well ID:	02S04W06A001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S04W06A001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S04W06A001S&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G22
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000004122**

Well ID:	02S04W06A003S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S04W06A003S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S04W06A003S&store_num=		
GeoTracker Data:	Not Reported		

F23
NNW
1/2 - 1 Mile
Lower

CA WELLS **970**

Seq:	970	Prim sta c:	01S/04W-32M00 S
Frds no:	3610057002	County:	36
District:	13	User id:	TAN
System no:	3610057	Water type:	G
Source nam:	LINDA VISTA 02 - INACTIVE	Station ty:	WELL/AMBNT
Latitude:	340230.0	Longitude:	1171930.0
Precision:	3	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3610057	System nam:	Riverside Highland Water Co
Hqname:	Not Reported	Address:	1450 WASHINGTON ST
City:	COLTON	State:	CA
Zip:	92324	Zip ext:	Not Reported
Pop serv:	14542	Connection:	3873
Area serve:	GRAND TERR/HIGHGROVE-RIVERSIDE		

H24
SW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000005687**

Well ID:	3310031-096	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	VAN BUREN WELL 02	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-096&store_num=		
GeoTracker Data:	Not Reported		

I25
NNE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000013480**

Well ID:	01S04W32G001S	Well Type:	UNK
Source:	Department of Water Resources		

Other Name:	01S04W32G001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S04W32G001S&store_num=		
GeoTracker Data:	Not Reported		

I26
NNE **CA WELLS** **CADWR0000018287**
1/2 - 1 Mile
Lower

Well ID:	01S04W32G004S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W32G004S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S04W32G004S&store_num=		
GeoTracker Data:	Not Reported		

H27
SW **CA WELLS** **2454**
1/2 - 1 Mile
Lower

Seq:	2454	Prim sta c:	02S/04W-05E02 S
Frds no:	3310031096	County:	33
District:	14	User id:	WAT
System no:	3310031	Water type:	G
Source nam:	VAN BUREN WELL 02	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	340135.6	Longitude:	1171944.0
Precision:	1	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310031	System nam:	Riverside, City Of
Hqname:	Not Reported	Address:	3900 MAIN STREET
City:	RIVERSIDE	State:	CA
Zip:	92522	Zip ext:	Not Reported
Pop serv:	245000	Connection:	58586
Area serve:	RIVERSIDE		
Sample date:	25-JAN-18	Finding:	5.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-OCT-17	Finding:	5.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-JUL-17	Finding:	4.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-APR-17	Finding:	4.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-MAR-17	Finding:	4.7

Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-MAR-17	Finding:	0.53
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-OCT-16	Finding:	4.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-SEP-16	Finding:	4.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-MAY-16	Finding:	0.58
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-MAY-16	Finding:	0.56
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-MAY-16	Finding:	4.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-MAY-16	Finding:	180.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	55.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	9.8
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	41.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	3.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	27.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	53.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	12-MAY-16	Finding:	0.51
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	12-MAY-16	Finding:	160.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		

Sample date:	12-MAY-16	Finding:	4.6
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	12-MAY-16	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	4.2
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-MAY-16	Finding:	0.56
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-MAY-16	Finding:	340.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	1.1
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	4.8
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-MAY-16	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	190.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	3.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	12-MAY-16	Finding:	540.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	29-OCT-15	Finding:	3.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	29-OCT-15	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

Dlr:	0.		
Sample date:	29-OCT-15	Finding:	4.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-OCT-15	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-OCT-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-APR-15	Finding:	3.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-APR-15	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-APR-15	Finding:	3.1
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	02-APR-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	27-MAR-15	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-NOV-14	Finding:	3.2
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	21-NOV-14	Finding:	21.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-NOV-14	Finding:	3.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	21-NOV-14	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-NOV-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-APR-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-APR-14	Finding:	4.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	03-APR-14	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-OCT-13	Finding:	0.58
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	04-OCT-13	Finding:	150.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	03-OCT-13	Finding:	140.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-OCT-13	Finding:	170.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-OCT-13	Finding:	180.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-OCT-13	Finding:	55.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-OCT-13	Finding:	9.9
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-OCT-13	Finding:	42.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-OCT-13	Finding:	3.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-OCT-13	Finding:	27.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-OCT-13	Finding:	51.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-OCT-13	Finding:	0.59
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-OCT-13	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-OCT-13	Finding:	3.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	03-OCT-13	Finding:	300.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L

Dlr:	0.		
Sample date:	03-OCT-13	Finding:	0.83
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-OCT-13	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-OCT-13	Finding:	4300.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-OCT-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-OCT-13	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-OCT-13	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	03-OCT-13	Finding:	530.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	530.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	190.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	180.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	54.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	9.8
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	42.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	23-MAY-13	Finding:	3.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	28.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	54.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	23-MAY-13	Finding:	0.52
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	23-MAY-13	Finding:	150.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	23-MAY-13	Finding:	4.9
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	23-MAY-13	Finding:	340.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	0.79
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	0.14
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	23-MAY-13	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	23-MAY-13	Finding:	4300.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-APR-13	Finding:	5.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	17-APR-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-APR-13	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-APR-13	Finding:	3.3
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	17-JAN-13	Finding:	2.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

Dlr:	0.		
Sample date:	17-JAN-13	Finding:	4.2
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	17-JAN-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-DEC-12	Finding:	3.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-DEC-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-DEC-12	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-DEC-12	Finding:	3.8
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	12-OCT-12	Finding:	2.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-OCT-12	Finding:	3.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-OCT-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	3.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	02-AUG-12	Finding:	3.3
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-AUG-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	2.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		

Sample date:	17-MAY-12	Finding:	0.13
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	17-MAY-12	Finding:	1.
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	330.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	3.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	17-MAY-12	Finding:	2.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	4.9
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	17-MAY-12	Finding:	160.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	17-MAY-12	Finding:	0.58
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	17-MAY-12	Finding:	54.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	17-MAY-12	Finding:	29.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	3.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	42.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	10.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	58.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	180.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L

Dlr:	0.		
Sample date:	17-MAY-12	Finding:	150.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	520.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	17-MAY-12	Finding:	3800.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-APR-12	Finding:	3.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	04-APR-12	Finding:	2.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-APR-12	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

J28
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000028143**

Well ID:	01S04W31J001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W31J001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S04W31J001S&store_num=		
GeoTracker Data:	Not Reported		

29
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADPR0000002388**

Well ID:	78627	Well Type:	UNK
Source:	Department of Pesticide Regulation		
Other Name:	78627	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=78627&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

K30
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000139996**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W32E010S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19540101	Well Depth:	242
Well Depth Units:	ft	Well Hole Depth:	242
Well Hole Depth Units:	ft		

L31
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000140022**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W32G001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	162
Well Depth Units:	ft	Well Hole Depth:	162
Well Hole Depth Units:	ft		

L32
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000140021**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W32G002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	112
Well Depth Units:	ft	Well Hole Depth:	112
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

J33
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000139976**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W31J001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19030101	Well Depth:	150
Well Depth Units:	ft	Well Hole Depth:	150
Well Hole Depth Units:	ft		

K34
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140006**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W32E009S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19540101	Well Depth:	312
Well Depth Units:	ft	Well Hole Depth:	346
Well Hole Depth Units:	ft		

M35
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140012**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W32E007S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19290101	Well Depth:	307
Well Depth Units:	ft	Well Hole Depth:	363
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

K36
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000014650**

Well ID:	01S04W32E007S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W32E007S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S04W32E007S&store_num=		
GeoTracker Data:	Not Reported		

K37
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000026592**

Well ID:	01S04W32E011S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W32E011S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S04W32E011S&store_num=		
GeoTracker Data:	Not Reported		

K38
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000027847**

Well ID:	01S04W32E009S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W32E009S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S04W32E009S&store_num=		
GeoTracker Data:	Not Reported		

K39
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000014639**

Well ID:	01S04W32E002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W32E002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S04W32E002S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

K40
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000027776**

Well ID:	01S04W32E010S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W32E010S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S04W32E010S&store_num=		
GeoTracker Data:	Not Reported		

K41
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000024115**

Well ID:	01S04W32E012S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W32E012S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S04W32E012S&store_num=		
GeoTracker Data:	Not Reported		

N42
North
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000007407**

Well ID:	3310031-132	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	FLUME WELL 07	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-132&store_num=		
GeoTracker Data:	Not Reported		

N43
North
1/2 - 1 Mile
Lower

CA WELLS **CAPFAS000000280**

Well ID:	3310031-132	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	FLUME WELL 07	GAMA PFAS Testing:	Yes
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310031-132&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

O44
NNE
1/2 - 1 Mile
Lower

FED USGS **USGS40000140027**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W32G004S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19060101	Well Depth:	140
Well Depth Units:	ft	Well Hole Depth:	140
Well Hole Depth Units:	ft		

M45
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140019**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W32E006S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19200101	Well Depth:	209
Well Depth Units:	ft	Well Hole Depth:	209
Well Hole Depth Units:	ft		

K46
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140007**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W32E008S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19420101	Well Depth:	388
Well Depth Units:	ft	Well Hole Depth:	388
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

47
NNE
1/2 - 1 Mile
Lower

FED USGS **USGS40000140040**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W32H001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19340101	Well Depth:	160
Well Depth Units:	ft	Well Hole Depth:	162
Well Hole Depth Units:	ft		

O48
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000140051**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W32G00AS	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19340101	Well Depth:	172
Well Depth Units:	ft	Well Hole Depth:	192
Well Hole Depth Units:	ft		

P49
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140023**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W32E005S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19240101	Well Depth:	186
Well Depth Units:	ft	Well Hole Depth:	191
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

Q50
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000139990**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W31H002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19100101	Well Depth:	240
Well Depth Units:	ft	Well Hole Depth:	240
Well Hole Depth Units:	ft		

51
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000140054**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W32B001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19310101	Well Depth:	229
Well Depth Units:	ft	Well Hole Depth:	264
Well Hole Depth Units:	ft		

R52
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140013**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W32E003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19260101	Well Depth:	170
Well Depth Units:	ft	Well Hole Depth:	170
Well Hole Depth Units:	ft		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

Q53
NW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000018783**

Well ID:	3610057-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	LINDA VISTA 01 - ABANDONED		
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610057-001&store_num=		
GeoTracker Data:	Not Reported		

R54
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140028**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W32E002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19260101	Well Depth:	191
Well Depth Units:	ft	Well Hole Depth:	194
Well Hole Depth Units:	ft		

P55
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140041**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W32E012S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19620101	Well Depth:	190
Well Depth Units:	ft	Well Hole Depth:	200
Well Hole Depth Units:	ft		

56
NW
1/2 - 1 Mile
Lower

CA WELLS **971**

Seq:	971	Prim sta c:	01S/04W-32M01 S
Frds no:	3610057001	County:	36

District:	13	User id:	TAN
System no:	3610057	Water type:	G
Source nam:	LINDA VISTA 01	Station ty:	WELL/AMBNT
Latitude:	340230.0	Longitude:	1172000.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3610057	System nam:	Riverside Highland Water Co
Hqname:	Not Reported	Address:	1450 WASHINGTON ST
City:	COLTON	State:	CA
Zip:	92324	Zip ext:	Not Reported
Pop serv:	14542	Connection:	3873
Area serve:	GRAND TERR/HIGHGROVE-RIVERSIDE		

S57
North **CA WELLS** **CADWR0000014649**
1/2 - 1 Mile
Lower

Well ID:	01S04W32B001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W32B001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S04W32B001S&store_num=		
GeoTracker Data:	Not Reported		

S58
North **CA WELLS** **CADWR0000007428**
1/2 - 1 Mile
Lower

Well ID:	01S04W32B002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W32B002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S04W32B002S&store_num=		
GeoTracker Data:	Not Reported		

59
NNW **FED USGS** **USGS40000140045**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W32E001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19240101	Well Depth:	191
Well Depth Units:	ft	Well Hole Depth:	194
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

60
SSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000028276**

Well ID:	02S04W05N099S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S04W05N099S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S04W05N099S&store_num=		
GeoTracker Data:	Not Reported		

61
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000140039**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S004W33D002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19260101	Well Depth:	175
Well Depth Units:	ft	Well Hole Depth:	175
Well Hole Depth Units:	ft		

62
NNE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000022997**

Well ID:	01S04W32A002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S04W32A002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S04W32A002S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92313	4	0

Federal EPA Radon Zone for SAN BERNARDINO County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SAN BERNARDINO COUNTY, CA

Number of sites tested: 18

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.678 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX F
ASBESTOS SURVEY REPORT

PHASE I
ENVIRONMENTAL SITE ASSESSMENT REPORT
22115 Barton Road
Grand Terrace, California

Farallon PN: 2240-250

Nova Group

Inspired Solutions by Nova Group



ASBESTOS SURVEY REPORT

Property

Auto Repair Building
22115 Barton Road
Grand Terrace, California 92313

Prepared For

Farallon Consulting
4380 South Macadam Avenue, Suite 500
Portland, Oregon 97239

Prepared By

Nova Group, GBC
3901 Arlington Highlands Boulevard, Suite 200
Arlington, Texas 76018

Web: novagroupgbc.com

Vanessa Chambers
SVP - Southern Regional Manager

Nova Project No: V23-0877
Inspection Date: February 16, 2023

Nova Group Carbon Neutral Report

novagroupgbc.com/carbonneutral

Table of Contents

1.0 INTRODUCTION 1

1.1 Project Description 1

2.0 RESULTS 2

3.0 Conclusions and Recommendations 3

3.1 Conclusions 3

3.2 Recommendations 3

4.0 Standard of Care 4

APPENDICES

APPENDIX A: Laboratory Results

APPENDIX B: Sample Location Diagram

APPENDIX C: Photographic Documentation

APPENDIX D: Laboratory Credentials

APPENDIX E: Certifications

1.0 INTRODUCTION

Nova Group, GBC (Nova) completed the following report in accordance with applicable Federal and State regulations and the American Testing and Materials (ASTM) E2356-18 Standard Practice for Comprehensive Building Asbestos Surveys, Baseline Asbestos Survey. In addition, the following report was completed in accordance with Cal/OSHA quidelines.

The United States Environmental Protection Agency (USEPA) National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulation (40 CFR Part 61) requires building owners to inspect for Asbestos Containing Material (ACM) in areas of a building where renovation or demolition will take place.

Prior to renovation or demolition of a building, all regulated friable ACM must be removed from the affected area. In addition, non-friable materials that are in a damaged condition or are likely to become friable during the process of renovation or demolition also require removal. Non-friable materials that are in good condition at the time of inspection and most likely will not become friable during demolition may, under certain circumstances, remain in place prior to demolition. USEPA and Occupational Safety and Health Administration (OSHA) define any building material that contains greater than one percent asbestos to be an asbestos-containing material (ACM).

1.1 Project Description

Nova completed an ASTM E2356-18 baseline asbestos survey of the Auto Repair Building site located at 22115 Barton Road, Grand Terrace, California 92313.

Nova's survey was limited to readily accessible areas of the interior and exterior of the buildings. The buildings' wall cavities were not included as part of this limited pre-demolition survey.

The inspection was completed by USEPA and State of California Certified Asbestos Consultant Geoffrey Mere #11-4826. A total of 33 bulk samples and 44 analytical layers were collected and analyzed by EPA 600/R-93/116 Method using polarized light microscopy (PLM). Samples were analyzed by LA Testing, National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory located in South Pasadena, California.

2.0 RESULTS

No asbestos containing materials were identified.

Asbestos was not detected in the following materials:

Material Identification	Material Description
01, 02, 03	Main Office - black floor coating
04, 05, 06	Restroom Floor - beige stone
07, 08, 09	Exterior Parking - black asphalt
10, 11, 12	Main Office - gray 2' x 4' t-grid ceiling tile
13, 14, 15	Exterior West Wall - gray mortar
16, 17, 18	Main Office near south wall - beige drywall and joint compound
19, 20, 21	Rear Shed Roof - black roof core
22, 23, 24	Main Roof near southeast corner - gray shingle core
25, 26, 27	Main Roof near middle - black penetration mastic
28, 29, 30	Exterior Parking - gray concrete
31, 32, 33	Storage Room - gray vent wrap

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

Nova conducted a baseline asbestos survey of the Auto Repair Building site located at:

22115 Barton Road
Grand Terrace, California 92313

The inspection was completed on February 16, 2023.

No asbestos containing materials were identified.

3.2 Recommendations

- Obtain all required local building demolition permits.
- The areas of the building not inspected during this investigation must be inspected and sampled for asbestos prior to any renovation, demolition, or disturbance of potential ACM. The demolition or abatement contractor should assume any suspect and uncharacterized building materials are ACM or hazardous, and manage it appropriatel
- If, during the course of the demolition/renovation activity, additional suspect asbestos containing materials are uncovered proper procedures must be implemented to prevent damage to these materials until asbestos content has been verified. This procedure is typically identified in the EPA demolition notification form. All regulated asbestos containing materials (RACM) must be removed prior to being impacted by any renovation and/or demolition activity.

4.0 STANDARD OF CARE

This report summarizes the results of the thorough inspection completed by Nova. This survey and review of the subject property has been limited in scope. This investigation is undertaken with the knowledge that visual observations and random sampling methods alone would not reveal the presence, full nature, and extent of asbestos-containing materials. Nova makes no representations as to the asbestos content of materials not sampled or that were not accessible to our inspector(s) (i.e., between walls, beneath floors, in sealed pipe chases, etc.). The asbestos sample locations and building dimensions were measured/located in the field by visual estimation from existing features. Therefore, the sample locations, building dimensions and approximate square footages of ACM should be considered accurate only to the degree implied by the methods used.

This asbestos survey is not intended to be the sole basis for asbestos removal bids. Confirmation of the presence, condition, and quantity of the ACM's should be conducted by prospective removal contractors prior to accepting removal bids. This report is provided for the exclusive use of the client noted on the cover page and is subject to the terms and conditions in the applicable contract between the Client and Nova. The Client is the only party to whom Nova has explained the limitations of this survey and has been involved in the shaping of the scope of services. Any third party review of this report, including the use by the Client's lender, prospective purchaser, or lessee will be subject to the terms and conditions governing contractual work between the Client and Nova. The unauthorized use of, reliance on, or release of information contained in this report, without the expressed written consent of Nova is strictly prohibited and will be without risk or liability.

The services performed by Nova Group, GBC (Nova) on this project have been conducted with that level of care of skill ordinarily exercised by reputable members of the profession, practicing in the same locality under similar budget and time constraints. No other warranty is expressed or implied.

Prepared By:

NOVA GROUP, GBC



for



Geoffrey Mere #11-4826
Certified Asbestos Consultant

Vanessa Chambers
SVP - Southern Regional Manager

APPENDIX A: Laboratory Results

LA Testing

520 Mission Street South Pasadena, CA 91030
Tel/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 322304689
Customer ID: NOVA52
Customer PO:
Project ID:

Attention: Emily Stumpf-Kulla
Nova Group, GBC
5320 West 23rd Street Suite 270
St Louis Park, MN 55416

Phone: (952) 448-9393
Fax: (952) 448-9572
Received Date: 02/20/2023 9:40 AM
Analysis Date: 02/21/2023
Collected Date: 02/17/2023

Project: V23-0877/ Auto Repair Building - Project 2240-250 / 22115 Barton Road Grand Terrace CA 92313

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
01 *322304689-0001*	Main office - black floor coating	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02 *322304689-0002*	Main office - black floor coating	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03 *322304689-0003*	Main office - black floor coating	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04 *322304689-0004*	Restroom floor - beige stone	Black/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05 *322304689-0005*	Restroom floor - beige stone	Black/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06 *322304689-0006*	Restroom floor - beige stone	Black/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
07 *322304689-0007*	Exterior parking floor - black asphalt	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
08 *322304689-0008*	Exterior parking floor - black asphalt	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
09 *322304689-0009*	Exterior parking floor - black asphalt	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10 *322304689-0010*	Main office - gray 2x4 t-grid ceiling tile	Gray/White Fibrous Homogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
11 *322304689-0011*	Main office - gray 2x4 t-grid ceiling tile	Gray/White Fibrous Homogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
12 *322304689-0012*	Main office - gray 2x4 t-grid ceiling tile	Gray/White Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
13 *322304689-0013*	Exterior w. wall - gray mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14 *322304689-0014*	Exterior w. wall - gray mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
15 *322304689-0015*	Exterior w. wall - gray mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16-Drywall *322304689-0016*	Main office near s. wall - beige dw/jc	Brown/White Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected

Initial report from: 02/21/2023 14:48:06

LA Testing
520 Mission Street South Pasadena, CA 91030
Tel/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 322304689
Customer ID: NOVA52
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
16-Joint Compound *322304689-0016A*	Main office near s. wall - beige dw/jc	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17-Drywall *322304689-0017*	Main office near s. wall - beige dw/jc	Brown/White Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
17-Joint Compound *322304689-0017A*	Main office near s. wall - beige dw/jc	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18-Drywall *322304689-0018*	Main office near s. wall - beige dw/jc	Brown/White Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
18-Joint Compound *322304689-0018A*	Main office near s. wall - beige dw/jc	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
19-Shingle *322304689-0019*	Rear shed roof - black roof core	White/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
19-Felt *322304689-0019A*	Rear shed roof - black roof core	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
20-Shingle *322304689-0020*	Rear shed roof - black roof core	White/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
20-Felt *322304689-0020A*	Rear shed roof - black roof core	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
21-Shingle *322304689-0021*	Rear shed roof - black roof core	White/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
21-Felt *322304689-0021A*	Rear shed roof - black roof core	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
22-Shingle 1 *322304689-0022*	Main roof near s.e - gray shingle core	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
22-Shingle 2 *322304689-0022A*	Main roof near s.e - gray shingle core	White/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
22-Shingle 3 *322304689-0022B*	Main roof near s.e - gray shingle core	Gray/Black Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
23-Shingle 1 *322304689-0023*	Main roof near s.e - gray shingle core	White/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
23-Shingle 2 *322304689-0023A*	Main roof near s.e - gray shingle core	Gray/Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
24-Shingle 1 *322304689-0024*	Main roof near s.e - gray shingle core	White/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
24-Shingle 2 *322304689-0024A*	Main roof near s.e - gray shingle core	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
24-Shingle 3 *322304689-0024B*	Main roof near s.e - gray shingle core	Gray/White/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected

Initial report from: 02/21/2023 14:48:06

LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order:	322304689
Customer ID:	NOVA52
Customer PO:	
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
25 *322304689-0025*	Main roof near middle - black pen mastic	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
26 *322304689-0026*	Main roof near middle - black pen mastic	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
27 *322304689-0027*	Main roof near middle - black pen mastic	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
28 *322304689-0028*	Exterior parking floor - gray concrete	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29 *322304689-0029*	Exterior parking floor - gray concrete	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30 *322304689-0030*	Exterior parking floor - gray concrete	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
31 *322304689-0031*	Storage room - gray vent wrap	Beige Non-Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
32 *322304689-0032*	Storage room - gray vent wrap	Beige Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
33 *322304689-0033*	Storage room - gray vent wrap	Beige Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected

Analyst(s)

James Siepler (15)

Nahid Motamedi (29)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

LA Testing maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by LA Testing. LA Testing bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 “Interim Method”) but augmented with procedures outlined in the 1993 (”final”) version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore LA Testing recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0, CA ELAP 2283

Initial report from: 02/21/2023 14:48:06

OrderID: 322304689

CHAIN OF CUSTODY
ASBESTOS LAB SERVICES

#3223046 89

EMSL Analytical, Inc.
520 Mission Street
South Pasadena, CA 91030
PHONE: (800) 303-0047
FAX: (323) 254-9982
http://www.emsl.com

Please print all information legibly

Company:	**Nova Group, GBC**	Bill to:	**Nova Group, GBC**
Address1:	**5320 West 23rd Street**	Address1:	**5320 West 23rd Street**
Address2	**Suite 270**	Addresss2:	**Suite 270**
City, State	**St. Louis Park, MN**	City, State	**St. Louis Park, MN**
Zip:	**55416**	Zip:	**55416**
Contact Name:	**Emily Stumpf-Kulla**	Attn:	**Same**
Phone:	**952.448.9393**	Phone:	**952.448.9393**
Fax:	**952.448.9572**	Fax:	**952.448.9572**
Email:	**emily.stumpfkulla@novagroupgbc.com**	Email:	**jill.simons@novagroupgbc.com**
FM Email:	**lindy.breedon@novagroupgbc.com**	Tracking #:	**5744 5351 3184**
Project Name:	**Auto Repair Building - Project 2240-250**	PO Number:	**Not Applicable**
Project Address	**22115 Barton Road Grand Terrace CA 92313**	EMSL Rep:	
Project No.	**V23-0877**		

MATRIX			TURNAROUND (Nova Standard TAT is 72 hours)			
☐ Air	☐ Soil	☐ Micro-Vac	☐ 3 Hours	☐ 6 Hours	☐ Same Day or 12 Hours*	☐ 24 Hours 1 day)
☐ Bulk	☐ Drinking Water		☐ 48 Hours (2 days)	☒ 72 Hours (3 days)	☐ 96 Hours (4 days)	☐ 120 Hours (5 Days)
☐ Wipe	☐ Waste Water		☐ 144 + Hours (6-10 days)			

TEM AIR, 3 hours, 6 hours. Please call ahead to schedule. There is a premium charge for 3-hour TAT, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign an authorization for this service.

*12 Hours (must arrive by 11:00 am Mon-Fri). Please refer to Price Quote

PCM-AIR
- ☐ NIOSH 7400(A) Issue 2: Aug 1994
- ☐ OSHA w/ TWA
- ☐ Other

PLM BULK
- ☒ **EPA 600/R-93/116**
- ☐ EPA Point Count
- ☐ NY Stratified Point Count
- ☐ PLM NOB (Gravimetric) NYS 198.1
- ☐ NIOSH 9002:
- ☐ EMSL Standard Addition

SEM AIR OR BULK
- ☐ Qualitative
- ☐ Quantitative

TEM AIR
- ☐ AHERA 40 CRF, Part 763 Subpart E
- ☐ NIOSH 7402
- ☐ EPA LEVEL II

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield SOP-1988-02
- ☐ TEM NOB (Gravimetric) NYD 198.4
- ☐ EMSL Standard Addition: PLM SOIL
- ☐ EPA Protocol Qualitative
- ☐ EPS Protocol Quantitative
- ☐ EMSL MSD 9000 Method fibers/gram

TEM WATER
- ☐ EPA 100.1
- ☐ EPA 100.2
- ☐ NYS 198.2

TEM MIRCOVAC/WIPE
- ☐ ASTM D 5755-95 (quantative method)
- ☐ Wipe Qualitative

XRD
- ☐ Asbestos
- ☐ Silica NIOSH 7500

OTHER
- ☐ _____

OrderID: 322304689

CHAIN OF CUSTODY
ASBESTOS LAB SERVICES

EMSL Analytical, Inc.
520 Mission Street
South Pasadena, CA 91030
PHONE: (800) 303-0047
FAX: (323) 254-9982
http://www.emsl.com

Please print all information legibly

#322304689

Client Sample #(s)	Total Samples #	Nova Project No.
01-33	33	V23-0877

Project Address	City State Zip
22115 Barton Road	Grand Terrace CA 92313

Relinquished: G. M	Date: 2.17.23	Time 1300
Received Annette McKissack	Date: 02/20/23	Time 940 (Rx)
Relinquished:	Date:	Time
Received:	Date:	Time

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
01	Main Office - Black Floor Coating	~1000 SF
02	↓ ↓	↓
03	↓ ↓	↓
04	Restroom Floor - Beige stone	~50 SF
05	↓ ↓	↓
06	↓ ↓	↓
07	Exterior Parking Floor - Black Asphalt	~2000 SF
08	↓ ↓	↓
09	↓ ↓	↓
10	Main Office - Gray 2x4 T-grid Ceiling Tile	~1000 SF
11	↓ ↓	↓
12	↓ ↓	↓

OrderID: 322304689

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#322304689

Please print all information legibly

Client Sample #(s)	Total Samples #	Nova Project No.
01-33	33	V23-0877

Project Address	City State Zip
22115 Barton Road	Grand Terrace CA 92313

Relinquished: G. [illegible]	**Date:** 2-17-23	**Time** 1300
Received Annette McGissack	**Date:** 02/20/23	**Time** 940 (Fx)
Relinquished:	**Date:**	**Time**
Received:	**Date:**	**Time**

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
13	Exterior Wall - Gray Mortar	~100 SF
14	↓	↓
15	↓	↓
16	Main office near S. Wall - Beige DW/JC	~500SF
17	↓	↓
18	↓	↓
19	Rear Shed Roof - Black Roof Core	~200SF
20	↓	↓
21	↓	↓
22	Main Roof near S.E - Gray shingle Core	~1000SF
23	↓	↓
24	↓	↓

OrderID: 322304689

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Please print all information legibly

#322304689

Client Sample #(s)	Total Samples #	Nova Project No.
01 - 33	33	V23-0877

Project Address	City State Zip
22115 Barton Road	Grand Terrace CA 92313

Relinquished:	Date: 2-17-23	Time 1300
Received Annette McKissack	Date: 02/20/23	Time 940 (fx)
Relinquished:	Date:	Time
Received:	Date:	Time

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
25	Main Roof near middle - Black pen mastic	~ 20SF
26	↓	↓
27	↓	↓
28	Exterior Parking Floor - Gray Concrete	~ 1000 SF
29	↓	↓
30	↓	↓
31	Storage Room - Gray vent wrap	~ 6SF
32	↓	↓
33	↓	↓

2/21/2023

Asbestos Analysis Of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Special Instructions: Due Date 02/23/2023

For lead in drinking water analysis, the client only wants to have the first draw sample analyzed, and that the flush sample should be put on hold unless the results are above 15 ppb - JRB 4/28/2022. Client does not requite state certifications for 200.8 analysis - JRB 5/18/2022

Sample Number	**322304689-0001**	Analyst	nmotamedi
Customer Sample No.	01	Analysis Date	02/21/2023 12:56 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Gray/Black	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Dissolved	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**0.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**100.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction

Comment:

Sample Number	**322304689-0002**	Analyst	nmotamedi
Customer Sample No.	02	Analysis Date	02/21/2023 12:59 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Gray/Black	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Dissolved	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**0.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**100.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction

Comment:

Sample Number	**322304689-0003**	Analyst	jsiepler
Customer Sample No.	03	Analysis Date	02/21/2023 01:22 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Gray/Black	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Dissolved/Ashed	Stereo Asb. Est.	0	**% Non-Asb. Fibrous**	**0.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**100.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction

Comment:

Sample Number	**322304689-0004**	Analyst	nmotamedi
Customer Sample No.	04	Analysis Date	02/21/2023 01:01 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Black/Beige	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Crushed/Dissolved	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**0.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**100.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction

Comment:

Sample Number	**322304689-0005**	Analyst	nmotamedi
Customer Sample No.	05	Analysis Date	02/21/2023 01:02 PM
Matrix	Bulk	Status	None Detected

Asbestos Analysis Of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Special Instructions: Due Date 02/23/2023

For lead in drinking water analysis, the client only wants to have the first draw sample analyzed, and that the flush sample should be put on hold unless the results are above 15 ppb - JRB 4/28/2022. Client does not requite state certifications for 200.8 analysis - JRB 5/18/2022

Sample Colors	Black/Beige	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Crushed/Dissolved	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**0.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**100.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction

Comment:

Sample Number	**322304689-0006**	Analyst	jsiepler
Customer Sample No.	06	Analysis Date	02/21/2023 01:27 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Black/Beige	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Crushed/Dissolved	Stereo Asb. Est.	0	**% Non-Asb. Fibrous**	**0.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**100.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction

Comment:

Sample Number	**322304689-0007**	Analyst	nmotamedi
Customer Sample No.	07	Analysis Date	02/21/2023 01:06 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Black	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Crushed/Dissolved/Melted	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**0.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**100.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction

Comment:

Sample Number	**322304689-0008**	Analyst	nmotamedi
Customer Sample No.	08	Analysis Date	02/21/2023 01:06 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Black	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Crushed/Dissolved/Melted	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**0.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**100.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction

Comment:

Sample Number	**322304689-0009**	Analyst	jsiepler
Customer Sample No.	09	Analysis Date	02/21/2023 01:30 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Black	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Crushed/Melted	Stereo Asb. Est.	0	**% Non-Asb. Fibrous**	**0.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**100.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction

Comment:

Asbestos Analysis Of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Special Instructions: Due Date 02/23/2023

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Sample Number	**322304689-0010**	Analyst	nmotamedi
Customer Sample No.	10	Analysis Date	02/21/2023 01:08 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Gray/White	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Teased/Crushed	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**60.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**40.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Cellulose	40			Ribbon-Like					
Min. Wool	20			Exotic Shapes			None 0.00 or Isotro		
Perlite	20			Other					

Sample Number	**322304689-0011**	Analyst	nmotamedi
Customer Sample No.	11	Analysis Date	02/21/2023 01:10 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Gray/White	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Teased/Crushed	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**60.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**40.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Cellulose	40			Ribbon-Like					
Min. Wool	20			Exotic Shapes			None 0.00 or Isotro		
Perlite	20			Other					

Sample Number	**322304689-0012**	Analyst	jsiepler
Customer Sample No.	12	Analysis Date	02/21/2023 01:34 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Gray/White	Homogeneity	Heterogeneous	**% Asbestos**	**0.0**
Treatment	Teased/Crushed/Dissolved	Stereo Asb. Est.	0	**% Non-Asb. Fibrous**	**60.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**40.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Cellulose	40			Ribbon-Like					
Min. Wool	20			Exotic Shapes			None 0.00 or Isotro		
Perlite	20								

Sample Number	**322304689-0013**	Analyst	nmotamedi
Customer Sample No.	13	Analysis Date	02/21/2023 01:15 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Gray	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Crushed/Dissolved	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**0.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**100.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction

Comment:

Sample Number	**322304689-0014**	Analyst	nmotamedi
Customer Sample No.	14	Analysis Date	02/21/2023 01:16 PM
Matrix	Bulk	Status	None Detected

Asbestos Analysis Of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Special Instructions: Due Date 02/23/2023

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Sample Colors	Gray	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Crushed/Dissolved	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**0.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**100.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction

Comment:

Sample Number	**322304689-0015**	Analyst	jsiepler
Customer Sample No.	15	Analysis Date	02/21/2023 01:39 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Gray	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Crushed/Dissolved	Stereo Asb. Est.	0	**% Non-Asb. Fibrous**	**0.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**100.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction

Comment:

Sample Number	**322304689-0016**	Analyst	nmotamedi
Customer Sample No.	16-Drywall	Analysis Date	02/21/2023 01:17 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Brown/White	Homogeneity	Heterogeneous	**% Asbestos**	**0.0**
Treatment	Teased	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**10.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**90.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Cellulose	10			Ribbon-Like					

Sample Number	**322304689-0016A**	Analyst	nmotamedi
Customer Sample No.	16-Joint Compound	Analysis Date	02/21/2023 01:19 PM
Matrix	Bulk	Status	None Detected

Sample Colors	White	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Dissolved	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**0.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**100.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction

Comment:

Sample Number	**322304689-0017**	Analyst	nmotamedi
Customer Sample No.	17-Drywall	Analysis Date	02/21/2023 01:22 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Brown/White	Homogeneity	Heterogeneous	**% Asbestos**	**0.0**
Treatment	Teased/Crushed	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**10.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**90.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Cellulose	10			Ribbon-Like					

Asbestos Analysis Of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Special Instructions: Due Date 02/23/2023

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Sample Number	**322304689-0017A**	Analyst	nmotamedi
Customer Sample No.	17-Joint Compound	Analysis Date	02/21/2023 01:23 PM
Matrix	Bulk	Status	None Detected

Sample Colors	White	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Dissolved	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**0.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**100.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction

Comment:

Sample Number	**322304689-0018**	Analyst	jsiepler
Customer Sample No.	18-Drywall	Analysis Date	02/21/2023 01:43 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Brown/White	Homogeneity	Heterogeneous	**% Asbestos**	**0.0**
Treatment	Teased/Crushed	Stereo Asb. Est.	0	**% Non-Asb. Fibrous**	**10.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**90.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Cellulose	10			Ribbon-Like					

Sample Number	**322304689-0018A**	Analyst	jsiepler
Customer Sample No.	18-Joint Compound	Analysis Date	02/21/2023 01:45 PM
Matrix	Bulk	Status	None Detected

Sample Colors	White	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Crushed/Dissolved	Stereo Asb. Est.	0	**% Non-Asb. Fibrous**	**0.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**100.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction

Comment:

Sample Number	**322304689-0019**	Analyst	nmotamedi
Customer Sample No.	19-Shingle	Analysis Date	02/21/2023 01:24 PM
Matrix	Bulk	Status	None Detected

Sample Colors	White/Black	Homogeneity	Heterogeneous	**% Asbestos**	**0.0**
Treatment	Teased/Crushed	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**10.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**90.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Glass	10						None 0.00 or Isotro		

Sample Number	**322304689-0019A**	Analyst	nmotamedi
Customer Sample No.	19-Felt	Analysis Date	02/21/2023 01:27 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Black	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Teased/Melted	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**20.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**80.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Glass	20						None 0.00 or Isotro		

Asbestos Analysis Of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Special Instructions: Due Date 02/23/2023

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Sample Number	**322304689-0020**	Analyst	nmotamedi
Customer Sample No.	20-Shingle	Analysis Date	02/21/2023 01:29 PM
Matrix	Bulk	Status	None Detected

Sample Colors	White/Black	Homogeneity	Heterogeneous	**% Asbestos**	**0.0**
Treatment	Teased/Melted	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**10.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**90.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Glass	10						None 0.00 or Isotro		

Sample Number	**322304689-0020A**	Analyst	nmotamedi
Customer Sample No.	20-Felt	Analysis Date	02/21/2023 01:31 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Black	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Teased/Melted	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**20.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**80.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Glass	20						None 0.00 or Isotro		

Sample Number	**322304689-0021**	Analyst	jsiepler
Customer Sample No.	21-Shingle	Analysis Date	02/21/2023 01:50 PM
Matrix	Bulk	Status	None Detected

Sample Colors	White/Black	Homogeneity	Heterogeneous	**% Asbestos**	**0.0**
Treatment	Teased/Crushed/Melted	Stereo Asb. Est.	0	**% Non-Asb. Fibrous**	**10.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**90.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Glass	10			Uniform Diameter			None 0.00 or Isotro		

Sample Number	**322304689-0021A**	Analyst	jsiepler
Customer Sample No.	21-Felt	Analysis Date	02/21/2023 01:53 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Black	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Teased/Melted	Stereo Asb. Est.	0	**% Non-Asb. Fibrous**	**20.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**80.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Glass	20			Uniform Diameter			None 0.00 or Isotro		

Sample Number	**322304689-0022**	Analyst	nmotamedi
Customer Sample No.	22-Shingle 1	Analysis Date	02/21/2023 01:37 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Gray/Black	Homogeneity	Heterogeneous	**% Asbestos**	**0.0**
Treatment	Teased/Melted	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**10.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**90.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Glass	10						None 0.00 or Isotro		

Asbestos Analysis Of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Special Instructions: Due Date 02/23/2023

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Sample Number	**322304689-0022A**	Analyst	nmotamedi
Customer Sample No.	22-Shingle 2	Analysis Date	02/21/2023 01:41 PM
Matrix	Bulk	Status	None Detected

Sample Colors	White/Black	Homogeneity	Heterogeneous	**% Asbestos**	**0.0**
Treatment	Teased/Melted	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**10.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**90.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Glass	10						None 0.00 or Isotro		

Sample Number	**322304689-0022B**	Analyst	nmotamedi
Customer Sample No.	22-Shingle 3	Analysis Date	02/21/2023 01:41 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Gray/Black	Homogeneity	Heterogeneous	**% Asbestos**	**0.0**
Treatment	Teased/Melted	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**0.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**100.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction

Comment:

Sample Number	**322304689-0023**	Analyst	nmotamedi
Customer Sample No.	23-Shingle 1	Analysis Date	02/21/2023 01:44 PM
Matrix	Bulk	Status	None Detected

Sample Colors	White/Black	Homogeneity	Heterogeneous	**% Asbestos**	**0.0**
Treatment	Teased/Melted	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**10.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**90.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Glass	10						None 0.00 or Isotro		

Sample Number	**322304689-0023A**	Analyst	nmotamedi
Customer Sample No.	23-Shingle 2	Analysis Date	02/21/2023 01:46 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Gray/Black	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Melted	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**10.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**90.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Glass	10						None 0.00 or Isotro		

Sample Number	**322304689-0024**	Analyst	jsiepler
Customer Sample No.	24-Shingle 1	Analysis Date	02/21/2023 01:57 PM
Matrix	Bulk	Status	None Detected

Sample Colors	White/Black	Homogeneity	Heterogeneous	**% Asbestos**	**0.0**
Treatment	Teased/Crushed/Melted	Stereo Asb. Est.	0	**% Non-Asb. Fibrous**	**10.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**90.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Glass	10			Uniform Diameter			None 0.00 or Isotro		

Asbestos Analysis Of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Special Instructions: Due Date 02/23/2023

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Sample Number	**322304689-0024A**	Analyst	jsiepler
Customer Sample No.	24-Shingle 2	Analysis Date	02/21/2023 02:00 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Gray/Black	Homogeneity	Heterogeneous	**% Asbestos**	**0.0**
Treatment	Teased/Crushed/Melted	Stereo Asb. Est.	0	**% Non-Asb. Fibrous**	**10.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**90.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Glass	10			Uniform Diameter			None 0.00 or Isotro		

Sample Number	**322304689-0024B**	Analyst	jsiepler
Customer Sample No.	24-Shingle 3	Analysis Date	02/21/2023 02:02 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Gray/White/Black	Homogeneity	Heterogeneous	**% Asbestos**	**0.0**
Treatment	Teased/Crushed/Melted	Stereo Asb. Est.	0	**% Non-Asb. Fibrous**	**10.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**90.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Glass	10			Uniform Diameter			None 0.00 or Isotro		

Sample Number	**322304689-0025**	Analyst	nmotamedi
Customer Sample No.	25	Analysis Date	02/21/2023 01:48 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Black	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Melted	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**10.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**90.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Cellulose	10			Ribbon-Like					

Sample Number	**322304689-0026**	Analyst	nmotamedi
Customer Sample No.	26	Analysis Date	02/21/2023 01:51 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Black	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Melted	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**10.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**90.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Cellulose	10			Ribbon-Like					

Sample Number	**322304689-0027**	Analyst	jsiepler
Customer Sample No.	27	Analysis Date	02/21/2023 02:37 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Black	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Melted	Stereo Asb. Est.	0	**% Non-Asb. Fibrous**	**10.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**90.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Cellulose	10			Ribbon-Like					

Asbestos Analysis Of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Special Instructions: Due Date 02/23/2023

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Sample Number	**322304689-0028**	Analyst	nmotamedi
Customer Sample No.	28	Analysis Date	02/21/2023 02:04 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Gray	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Crushed/Dissolved	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**0.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**100.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction

Comment:

Sample Number	**322304689-0029**	Analyst	nmotamedi
Customer Sample No.	29	Analysis Date	02/21/2023 01:58 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Gray	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Crushed/Dissolved	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**0.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**100.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction

Comment:

Sample Number	**322304689-0030**	Analyst	jsiepler
Customer Sample No.	30	Analysis Date	02/21/2023 02:41 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Gray	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Crushed/Dissolved	Stereo Asb. Est.	0	**% Non-Asb. Fibrous**	**0.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**100.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction

Comment:

Sample Number	**322304689-0031**	Analyst	nmotamedi
Customer Sample No.	31	Analysis Date	02/21/2023 01:54 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Beige	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Teased	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**85.0**
Texture	Non-Fibrous	Temperature (C)	21	**% Non-fibrous**	**15.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Cellulose	85			Ribbon-Like					

Sample Number	**322304689-0032**	Analyst	nmotamedi
Customer Sample No.	32	Analysis Date	02/21/2023 01:56 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Beige	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Teased	Stereo Asb. Est.		**% Non-Asb. Fibrous**	**85.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**15.0**

Comments:

Asbestos Analysis Of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Special Instructions: Due Date 02/23/2023

For lead in drinking water analysis, the client only wants to have the first draw sample analyzed, and that the flush sample should be put on hold unless the results are above 15 ppb - JRB 4/28/2022. Client does not requite state certifications for 200.8 analysis - JRB 5/18/2022

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Cellulose	85			Ribbon-Like					

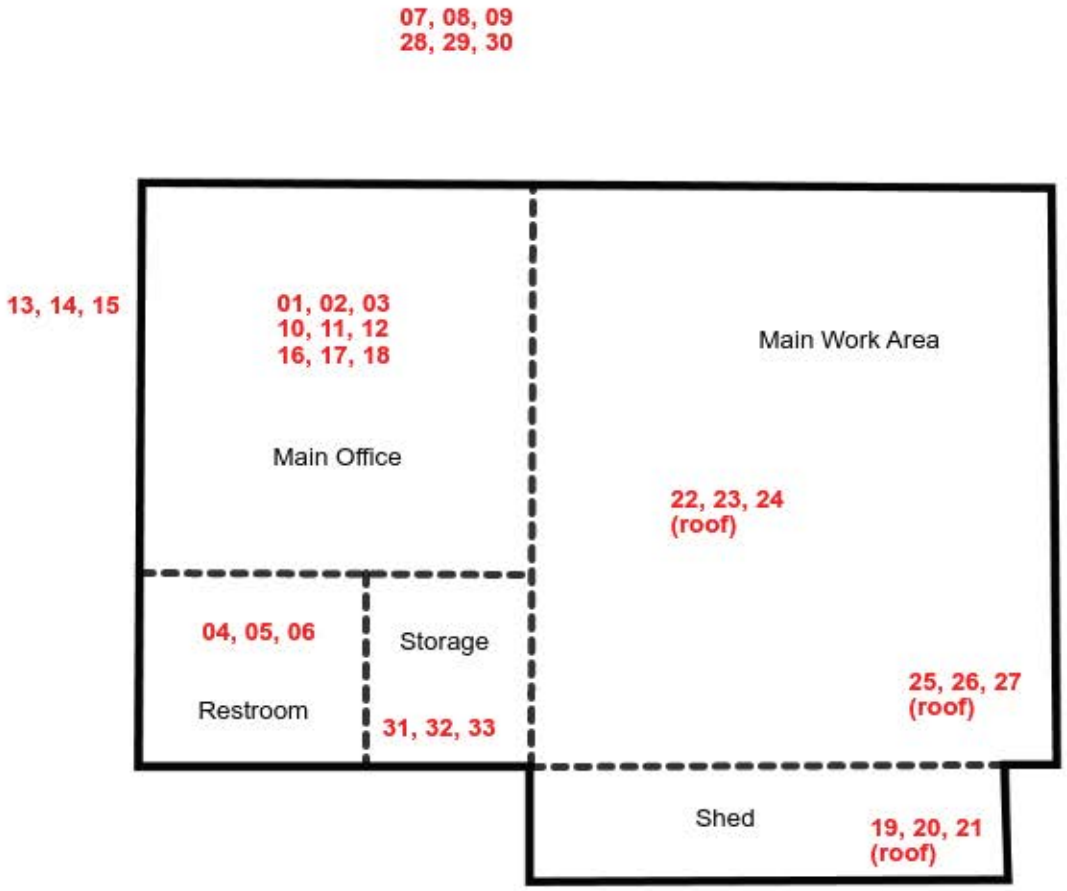
Sample Number	**322304689-0033**	Analyst	jsiepler
Customer Sample No.	33	Analysis Date	02/21/2023 02:45 PM
Matrix	Bulk	Status	None Detected

Sample Colors	Beige	Homogeneity	Homogeneous	**% Asbestos**	**0.0**
Treatment	Teased	Stereo Asb. Est.	0	**% Non-Asb. Fibrous**	**85.0**
Texture	Fibrous	Temperature (C)	21	**% Non-fibrous**	**15.0**

Comments:

Material	Pct	R.I. Perpend.	R.I. Parallel	Morphology	Elongation	Pleochroism	Birefringence	Fiber Color	Extinction
Cellulose	85			Ribbon-Like					

APPENDIX B: Sample Location Diagram



Sample Location Diagram

Auto Repair Building
22115 Barton Road
Grand Terrace, California 92313
Project#: V23-0877

Nova Group

APPENDIX C: Photographic Documentation



1. View of the roof



2. Roof penetration mastic



3. Rear shed



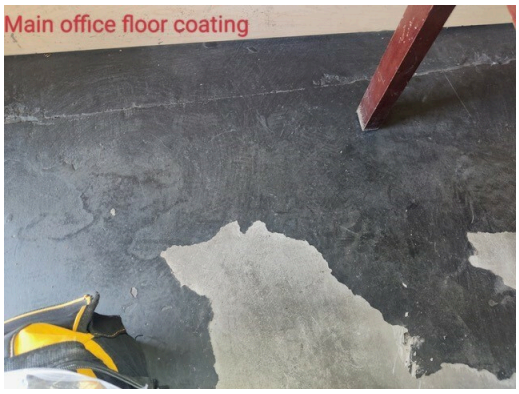
4. Parking area asphalt



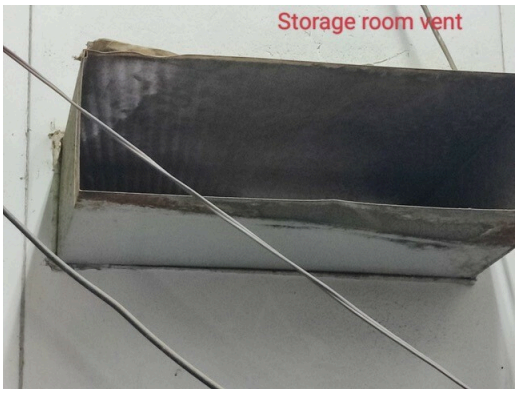
5. Main office ceiling tile



6. Main office drywall



7. Main office floor coating



8. Storage room vent



9. Restroom floor stone

APPENDIX D: Laboratory Credentials

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200232-0

LA Testing

South Pasadena, CA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2022-07-01 through 2023-06-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

LA Testing
520 Mission Street
South Pasadena, CA 91030
Mr. Jerry Drapala Ph.D.
Phone: (323) 254-9960 Fax: (323) 254-9982
Email: jdrapala@latesting.com
http://www.latesting.com

ASBESTOS FIBER ANALYSIS — NVLAP LAB CODE 200232-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code	*Description*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

APPENDIX E: Certifications

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant



Geoffrey O. Mere
Name

Certification No. **11-4826**

Expires on **01/18/24**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.


Nova
Group
Carbon
Neutral
Report
novagroupgbc.com/carbonneutral

APPENDIX G
LEAD BASED PAINT SUMMARY LETTER

PHASE I
ENVIRONMENTAL SITE ASSESSMENT REPORT
22115 Barton Road
Grand Terrace, California

Farallon PN: 2240-250

Nova Group

CORPORATE HEADQUARTERS
Minneapolis, MN

Inspired Solutions by Nova Group

February 23, 2023

Amanda Garcia
Farallon Consulting
4380 South Macadam Avenue, Suite 500
Portland, Oregon 97239

RE: **LEAD PAINT SUMMARY LETTER**

Auto Repair Building
22115 Barton Road
Grand Terrace, California 92313

Nova Project No.: V23-0877

Dear Ms. Garcia:

Per your request, Nova is preparing this letter to summarize the findings of our lead paint sampling at the Auto Repair Building property located at 22115 Barton Road in Grand Terrace, California. A summary of this report is as follows.

On February 16, 2023, Mr. Geoffrey Mere, a representative of Nova Group, GBC, conducted limited sampling for lead-based paint. Major paint groups throughout the interior and exterior of the building were identified and sampled. A total of three paint samples were collected and analyzed for total lead using Flame Atomic Absorption Spectrometry (AAS) method SW846-7000B. Paint samples were submitted to LA Testing / EMSL Analytical, Inc. (EMSL) for analysis. EMSL is an American Industrial Hygiene Association (AIHA) Environmental Microbiology Laboratory Accreditation Program (EMLAP) accredited laboratory.

Based on the results of the laboratory analysis, one of the three paint groups that were sampled was identified as lead-based paint. (Based on the definition of lead-containing paint listed at 15 USC § 2681(9) of greater than 0.5 percent by weight or 5,000 mg/Kg).

Sample Number	Material Description / Area	Location	Condition	Results (% wt, mg/Kg)
PB 34	Gray paint on wall	Exterior West Wall	Intact	0.044 % wt
PB 35	Red paint on fascia	Exterior South Roof	Intact	**1.6 % wt**
PB 36	Yellow paint on wall	Interior Main Work Area	Intact	0.029 % wt

Please note, this sampling effort is not to be considered a comprehensive inspection of the facility for lead.

Sincerely,

NOVA GROUP, GBC



for



Geoffrey Mere
CDPH Lead Inspector/Assessor

Vanessa L. Chambers
Senior Vice President

Attachments: Lab Report(s), Sample Location Diagram

LA Testing
5431 Industrial Drive, Huntington Beach, CA 92649
Phone: (714) 828-4999 Fax: (714) 828-4944 Email: gardengrovelab@latesting.com

Attn: **Emily Stumpf-Kulla**
Nova Group, GBC
5320 West 23rd Street Suite 270
St Louis Park, MN 55416

Phone: (952) 448-9393
Fax: (952) 448-9572

2/23/2023

The following analytical report covers the analysis performed on samples submitted to LA Testing on 2/20/2023. The results are tabulated on the attached data pages for the following client designated project:

LINDY BREEDON / V23-0877 / 22115 BARTON ROAD GRAND TERRACE CA 92313

The reference number for these samples is EMSL Order #332302986. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (714) 828-4999.

Approved By:

Michael Chapman, Laboratory Manager

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

LA Testing
5431 Industrial Drive, Huntington Beach, CA 92649
Phone/Fax: (714) 828-4999 / (714) 828-4944
http://www.LATesting.com gardengrovelab@latesting.com

LA Testing Order: 332302986
CustomerID: NOVA52
CustomerPO:
ProjectID:

Attn: **Emily Stumpf-Kulla**
Nova Group, GBC
5320 West 23rd Street Suite 270
St Louis Park, MN 55416

Phone: (952) 448-9393
Fax: (952) 448-9572
Received: 2/20/2023 12:30 PM
Collected: 2/17/2023

Project: **LINDY BREEDON / V23-0877 / 22115 BARTON ROAD GRAND TERRACE CA 92313**

Analytical Results

Client Sample Description PB 34
EXTERIOR W. WALL GRAY PAINT CHIP
Collected: 2/17/2023 ***Lab ID:*** *332302986-0001*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Time*		*Analysis Date & Time*	
METALS								
3050B/6010D	Lead	0.044	0.00049	% wt	2/21/2023	cc	2/22/2023	TH

Client Sample Description PB 35
SOUTH ROOF FASCIA - RED PAINT CHIP
Collected: 2/17/2023 ***Lab ID:*** *332302986-0002*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Time*		*Analysis Date & Time*	
METALS								
3050B/6010D	Lead	1.6 D	0.0050	% wt	2/21/2023	cc	2/22/2023	TH

Client Sample Description PB 36
MAIN WORK AREA - YELLOW PAINT CHIP
Collected: 2/17/2023 ***Lab ID:*** *332302986-0003*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Time*		*Analysis Date & Time*	
METALS								
3050B/6010D	Lead	0.029	0.00048	% wt	2/21/2023	cc	2/22/2023	TH

Definitions:

MDL - method detection limit
J - Result was below the reporting limit, but at or above the MDLND - indicates that the analyte was not detected at the reporting limit
RL - Reporting Limit (Analytical)
D - Dilution Sample required a dilution which was used to calculate final results

OrderID: 332302986

CHAIN OF CUSTODY
LEAD LAB SERVICES

#332302986

EMSL Analytical, Inc.
520 Mission Street
South Pasadena, CA 91030
PHONE: (800) 303-0047
FAX: (323) 254-9982
http://www.emsl.com

Please print all information legibly

Company:	Nova Group, GBC	Bill to:	Nova Group, GBC
Address1:	5320 West 23rd Street	Address1:	5320 West 23rd Street
Address2	Suite 270	Addresss2:	Suite 270
City, State	St. Louis Park, MN	City, State	St. Louis Park, MN
Zip:	55416	Zip:	55416
Contact Name	Emily Stumpf-Kulla	Attn:	Jill Simons
Phone:	952.448.9393	Phone:	952.448.9393
Fax:	952.448.9572	Fax:	952.448.9572
Email:	emily.stumpfkulla@novagroupgbc.com	Email:	Jill.simons@novagroupgbc.com
Field Manager:	Lindy Breedon	Tracking #:	5744 5351 3184
EMSL Rep:	Unknown	PO Number:	Not Applicable
Project Name:	**Lindy Breedon**	Project No.:	**V23-0877**

NOVA STANDARD TURNAROUND TIME IS 72 HOURS

MATRIX	METHOD	INSTRUMENT	RL(Reporting Limit)	TAT
Lead Chips*	SW846-7420, 3050b Mod.	Flame Atomic Absorption	0.01%++	
Lead Waste Water	SW846-7420	Flame Atomic Absorption	0.4 mg/1 water 40 mg/kg (ppm) soil	
Lead Soil+	or SW846-6010B	ICP	0.1 mg/1 water 10 mg/kg (ppm) soil	
	NIOSH 7082 Mod.	Flame Atomic Absorption	4 ug/filter	
Lead in Air ***	Or NOISH 7300 Mod.	ICP	30.ug/filter	
Lead in Wipe^ | -ASTM *List Wipe Type*	SW846-7420/ HUD Appendix 14.2 Digest	Flame Atomic Absorption	10up/wipe	
_____ | -non ASTM	or SW846-6010	ICP	3.0 ug/wipe	
	SW846-1311/ 7420	Flame Atomic Absorption	0.4 mg/1 (ppm)	
TCLP Lead **	Or SW846-6010B	ICP	0.1 mg/1 (ppm)	
	CA Title 22 66261.162/ SW846-7420	Flame Atomic Absorption	0.4 mg/1 (ppm)	
STLC Lead (California) #	or SW846-1610	ICP	0.1 mg/1 (ppm)	
Lead in Air ****	NIOSH 7105 Mod.	Graphite Furnace Atomic Absorption	0.03 ug/filter	
Lead WasteWater		Graphite Furnace Atomic Absorption	0.003 mg/1 (ppm)	
Lead Soil +	SW846-7421		0.03 mg/kg (ppm) soil	
Lead in Drinking Water (check state Certification requirements)	EPA 239.2 / 200.9	Graphite Furnace Atomic Absorption	0.003 mg/1 (ppm)	
Total Dust	NIOSH 0500-0600	Gravimetric Reduction	0.0001g	

TAT (Turnaround) – Same Day, 24hr – 1 Day, 2 Days, 3 Days, 4 Days, 5 Days, 6-10 Days

*, **, ***, ****, +, ++, # Please Refer to Price Quote

^ If no box is checked, non-ASTM is assumed

OrderID: 332302986

CHAIN OF CUSTODY
LEAD LAB SERVICES

#332302986

EMSL Analytical, Inc.
520 Mission Street
South Pasadena, CA 91030
PHONE: (800) 303-0047
FAX: (323) 254-9982
http://www.emsl.com

Please print all information legibly

Nova Project No.	Project Name:		
V23-0877	Lindy Breedon		
Project Address		City State Zip	
22115 Barton Road		Grand Terrace CA 92313	
SAMPLE #	**LOCATION**	**Air Volume, L Area, in²**	**LAB #**
Pb 34	Exterior W. Wall gray paint chip	~2"X2"	
Pb 35	South Roof fascia - Red paint chip	↓	
Pb 36	main work Area - Yellow paint chip	↓	

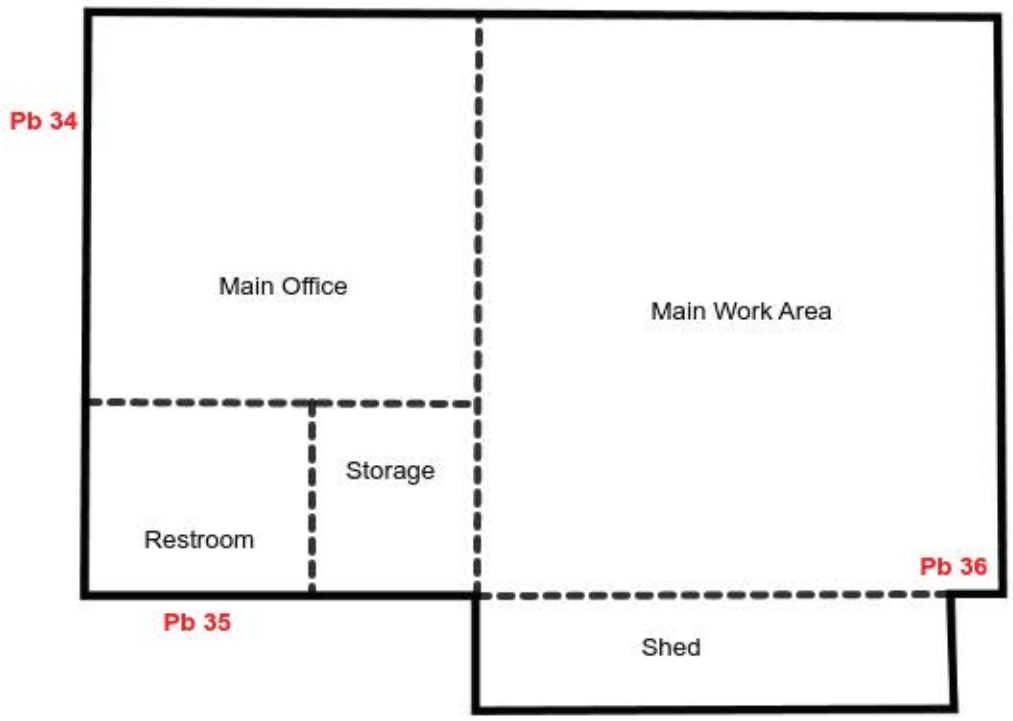
Relinquished by: _____ Date 2-17-23 1300

Received at EMSL by: Annette McKissack (fx) Date: 02/20/23 940

Received at EMSL by: Rocio Ochoa (pu) Date 2/20/23 12:30 pm

Note: Please duplicate this form and use additional sheets if necessary.

@ The individual signing and relinquishing these samples to the laboratory attests to the accuracy of the information reported on this chain of custody.



Sample Location Diagram

Auto Repair Building
22115 Barton Road
Grand Terrace, California 92313
Project#: V23-0877

Nova Group

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FARALLON CONSULTING

October 18, 2023

Marissa Mecca
BB Holdings CA, LLC
110 Southwest 4th Street
Grants Pass, Oregon 97256

RE: LIMITED SOIL GAS INVESTIGATION AND GROUND-PENETRATING RADAR SURVEY
DUTCH BROS PROJECT NO. CA-5204
22115 BARTON ROAD
GRAND TERRACE, CALIFORNIA
FARALLON PN: 2240-279

Dear Marissa Mecca:

Farallon Consulting, L.L.C. (Farallon) has prepared this letter to summarize the results from the limited Soil Gas Investigation (SGI) and ground-penetrating radar (GPR) survey conducted in September 2023, for DB Project No. CA-5204 at 22115 Barton Road in Grand Terrace, California (herein referred to as the Subject Property) (Figure 1). The SGI was conducted as part of environmental due diligence related to the potential redevelopment of the Subject Property as a Dutch Bros Coffee (Dutch Bros) outlet.

Farallon conducted a Phase I Environmental Site Assessment (ESA) in 2023 and prepared the *Phase I Environmental Site Assessment Report, 22115 Barton Road in Grand Terrace, California* dated March 6, 2023 for BB Holdings CA, LLC (2023 Phase I Report). During the Phase I ESA, Farallon identified preliminary environmental concerns and recommended a subsurface investigation to evaluate subsurface conditions at the Subject Property. The main elements of the subsurface investigation included conducting public and private utility locates, conducting a GPR survey, advancing borings, installing temporary soil gas probes, and collecting soil gas samples.

A summary of the Subject Property background; a description of the geology and hydrogeology of the Subject Property and its vicinity; a summary of activities conducted for the subsurface investigation; and Farallon's conclusions are provided below.

SITE DESCRIPTION AND BACKGROUND

Based on the 2023 Phase I Report, the Subject Property consists of a portion of San Bernardino County Parcel No. 1167-231-10-0000, the entire San Bernardino County Parcel

No. 1167-231-11-0000, and a portion of land that was previously owned by the City of Grand Terrace and recently sold to be developed as part of the Subject Property. The Subject Property totals 0.74 acre of land developed with a single-story 1,280-square-foot auto repair shop that was constructed in 1966. Remaining areas of the Subject Property consist of a paved parking lot and overgrown natural vegetation. The Subject Property features are depicted on Figure 2.

The 2023 Phase I Report identified the following environmental conditions in connection with the Subject Property:

- The current structure with a canopy was constructed in 1966, and the canopy was demolished by 2021. City directory listings for the Subject Property address included Jerry's Auto Service in 2000 and GT Pit Stop from 2005 through 2014. The potential release of hazardous substances associated with the long-term auto repair operations conducted at the Subject Property represents a recognized environmental condition in connection with the Subject Property.

- The *EDR Radius Map Report with GeoCheck* dated February 6, 2023 prepared for the Subject Property by Environmental Data Resources, Inc. (EDR) (EDR Report) identified the Subject Property address in several databases. According to the EDR Report, the Subject Property had three 7,500- or 8,000-gallon gasoline underground storage tanks (USTs) and a 550-gallon waste oil UST. The potential release of hazardous substances associated with three 7,500- or 8,000-gallon gasoline USTs and one 550-gallon waste oil UST at the Subject Property represents a recognized environmental condition in connection with the Subject Property.

- According to records provided by the South Coast Air Quality Management District, the Subject Property had two 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST. The potential release of hazardous substances associated with two 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST at the Subject Property represents a recognized environmental condition in connection with the Subject Property.

Additionally, according to the EDR Report, Grand Terrace Gas-Up #2603 and GT Pitstop are listed as having a gasoline release to soil that was closed by San Bernardino County and the Santa Ana Regional Water Quality Control Board on March 15, 2000. The historical release of gasoline impacting soil at the Subject Property that was granted regulatory closure

represents a historical recognized environmental condition in connection with the Subject Property.

GEOLOGY AND HYDROGEOLOGY

The Subject Property is in the San Bernardino Valley, a south-trending structural depression positioned south of the San Bernardino and the eastern San Gabriel Mountains in southern California. The San Bernardino Valley is characterized by quaternary alluvium and marine deposits consisting of unconsolidated and semi-consolidated alluvium, lake, playa, and terrace deposits. Alluvium deposits range in age from the Pliocene to the Holocene eras. Soil encountered during this SGI consisted primarily of well- to poorly graded silty sand and silt with sand to the maximum explored depth of 5.5 feet below ground surface (bgs). The Subject Property is in the Upper Santa Ana Valley Groundwater Basin San Bernardino/Bunker Hill subbasin. Based on Farallon's review of the California State Water Resource Control Board GeoTracker database (GeoTracker database), groundwater is expected to be encountered at depths of approximately 140 to 170 feet bgs and flow to the south-southwest. Groundwater was not encountered during this SGI to the maximum depth of exploration of approximately 5.5 feet bgs during the SGI.

SUBSURFACE INVESTIGATION

The subsurface investigation was conducted to evaluate the recognized environmental conditions identified in the 2023 Phase I Report. The constituents of potential concern (COPCs) identified for the subsurface investigation were volatile organic compounds (VOCs) including petroleum and chlorinated hydrocarbons.

The subsurface investigation consisted of:

- Preparing a Site-Specific Health and Safety Plan as required by U.S. Occupational Safety and Health Administration and Part 1910.120 of Title 29 of the Code of Federal Regulations;
- Conducting public and private utility locates to clear proposed boring locations, and to provide additional information pertaining to the locations of subsurface utilities at the Subject Property;
- Conducting a GPR survey to evaluate areas of suspected UST(s);

- Advancing four borings (SVP-1 through SVP-4) at areas where potential COPCs could have been used or stored and/or within the vicinity of the proposed Dutch Bros building; and
- Collecting soil gas samples from borings SVP-1 and SVP-4 at a depth of approximately 5 feet bgs to assess the subsurface for potential releases of COPCs.

The locations of the borings are shown on Figure 2.

SUBSURFACE UTILITY LOCATION AND GPR SURVEY

Prior to conducting subsurface investigation activities, Farallon retained public and private utility locating services to clear the proposed boring locations and provide additional information pertaining to the locations of subsurface utilities at the Subject Property. Ground Penetrating Radar Systems, LLC of California conducted a private utility locate at the Subject Property. In addition, each boring location was cleared to a depth of 5 feet bgs using a hand auger to verify that no utilities were present.

A GPR survey was conducted on September 20, 2023 to assess areas of the Subject Property where potential USTs could be present.

SOIL GAS SAMPLING

Following the GPR survey, Farallon completed four hand auger borings (SVP-1 through SVP-4) and installed soil vapor pins. The borings were advanced at the following locations, shown on Figure 2:

- Boring SVP-1 was situated inside the Subject Property building near the hazardous waste storage area;
- Borings SVP-2 and SVP-3 were situated within the proposed Dutch Bros building footprint and in the suspected vicinity of former pump islands; and
- Boring SVP-4 was situated within a backfill area west of the Subject Property building, the likely location of former UST(s).

Boring locations were based on the results from the GPR survey and field observations and to assess soil gas conditions underlying the Subject Property and in the vicinity of the proposed Dutch Bros building. The vapor pins were allowed to equilibrate for more than 48 hours before collecting soil gas samples.

Farallon collected soil gas samples on September 25, 2023. The soil gas samples were collected in accordance with Farallon's standard operation procedure for soil gas sampling, which is consistent with the *Advisory – Active Soil Gas Investigations* dated July 2015, prepared by the California Department of Toxic Substances Control (DTSC Advisory).[1] Prior to sampling, a shut-in test was conducted for 1 minute at 100 inches of water to check for leaks. Each soil gas probe was leak-tested using 1,1-difluoroethane gas as a tracer to ensure probe integrity and that the soil gas sample extracted was representative of subsurface conditions. The soil gas samples were collected in 1-liter Summa canisters with a flow regulator set to collect the sample at a rate of 200 milliliters per minute. Prior to collecting each soil gas sample, the probe and associated tubing were purged using a miniature air pump to ensure only formation soil gas was extracted into the Summa canister. The soil gas samples were transported under standard chain-of-custody protocols to Enthalpy Analytical in Orange, California for analysis of VOCs associated with the suspected current and historical sources of contamination (benzene, toluene, ethylbenzene, and total xylenes, naphthalene, tetrachloroethene [PCE], trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride) by U.S. Environmental Protection Agency Method TO-15.

SUBSURFACE INVESTIGATION RESULTS

Soil gas analytical results are presented in Table 1. Laboratory analytical reports are provided in Attachment A.

GPR SURVEY

The results from the GPR survey indicated three anomalies at the Subject Property, as shown on Figure 2:

- An anomaly located west of the Subject Property building, which was identified as a backfill area where former UST(s) are suspected to have been located.
- An anomaly located south of the Subject Property building, which is suspected to be an in-ground UST(s), possibly a waste oil tank.
- An anomaly located on the northeastern corner of the Subject Property, which is suspected to be an in-ground clarifier.

[1] Prepared by the California Environmental Protection Agency Department of Toxic Substances Control, Los Angeles Regional Water Quality Control Board, and San Francisco Regional Water Quality Control Board.

SOIL GAS ANALYTICAL RESULTS

Numerous COPCs were detected at concentrations exceeding laboratory limits in the soil gas samples collected from borings SVP-1 through SVP-4 (Table 2). However, with the exception of benzene and PCE in boring SVP-3, all the concentrations were less than the 2019 San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels, Vapor Summary (Water Board ESLs) for commercial/industrial receptor scenarios. Boring SVP-3 is located in the proposed Dutch Bros building footprint and in the suspected vicinity of former pump islands.

- Benzene was detected at a concentration of 16 micrograms per cubic meter ($\mu g/m^3$) exceeding the Water Board ESL of 14 $\mu g/m^3$.
- PCE was detected at a concentration of 170 $\mu g/m^3$ exceeding the Water Board ESL of 67 $\mu g/m^3$.

The soil gas results indicate the potential for impacted soil to be present in the vicinity of the boring locations.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the SGI, benzene and PCE were detected at concentrations exceeding Water Board ESLs for commercial/industrial receptor scenarios in soil gas. Therefore, Farallon recommends a vapor intrusion mitigation system (VIMS) be installed that meets current California regulatory requirements.

Localized areas of impacted soil may be present and could require special handling and disposal in accordance with local and state regulations, if excavated during redevelopment. Soil conditions should be evaluated during future development, and if signs of impacts are encountered, the soil should be tested to determine appropriate disposal alternatives. Farallon recommends preparation of an Environmental Media Management Plan.

The GPR survey results indicated the presence of a UST that appears to still be in-place south of the Subject Property building and the presence of a clarifier that appears to still be in-place on the northeastern corner of the Subject Property. The UST and clarifier will need to be decommissioned and removed in accordance with local and State regulations. At that time, soil conditions around the UST and clarifier can be assessed to evaluate whether releases have occurred.

CLOSING

Farallon appreciates the opportunity to provide environmental consulting services for this project. Please contact either of the undersigned at (425) 295-0800 if you have questions or need additional information.

Sincerely,

Farallon Consulting, L.L.C.

Beth Padgett, L.G.
Associate Geologist

Charles T. Esler, CHMM
Principal Environmental Scientist

Attachments: Figure 1, *Subject Property Vicinity Map*
Figure 2, *Subject Property Plan*
Table 1, *Soil Gas Analytical Results for Volatile Organic Compounds*
Attachment A, Laboratory Analytical Report

BAP/CTE:mbg

LIMITATIONS

The conclusions contained in this report/assessment are based on professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location. The conclusions contained herein are subject to the following inherent limitations:

- Accuracy of Information. Farallon reviewed certain information used in this report/assessment from sources that were believed to be reliable. Farallon's conclusions, opinions, and recommendations are based in part on such information. Farallon's services did not include verification of its accuracy. Should the information upon which Farallon relied prove to be inaccurate, Farallon may revise its conclusions, opinions, and/or recommendations.
- Reconnaissance and/or Characterization. Farallon performed a reconnaissance and/or characterization of the Site that is the subject of this report/assessment to document current conditions. Farallon focused on areas deemed more likely to exhibit hazardous materials conditions. Contamination may exist in other areas of the Site that were not investigated or were inaccessible. Site activities beyond Farallon's control could change at any time after the completion of this report/assessment.

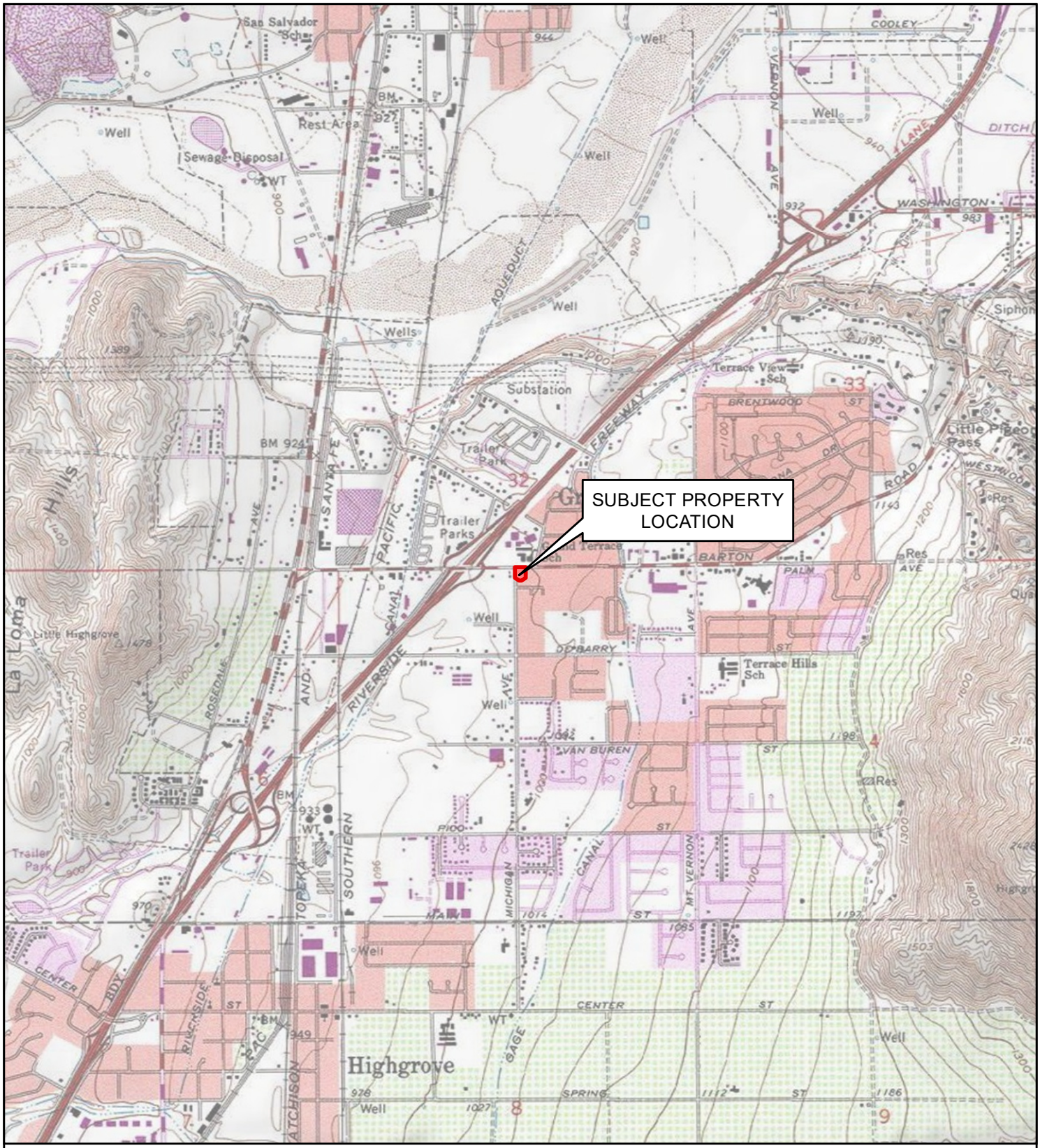
Farallon does not guarantee that the Site is free of hazardous or potentially hazardous substances or conditions, or that latent or undiscovered conditions will not become evident in the future. Farallon's observations, findings, and opinions are as of the date of the report.

This report/assessment has been prepared in accordance with the contract for services between Farallon and BB Holdings CA, LLC. No other warranties, representations, or certifications are made.

FIGURES

LIMITED SOIL GAS INVESTIGATION
AND GROUND-PENETRATING RADAR SURVEY
Dutch Bros Project No. CA-5204
22115 Barton Road
Grand Terrace, California

Farallon PN: 2240-279



REFERENCE: 7.5 MINUTE USGS QUADRANGLE SAN BERNARDINO SOUTH, CALIFORNIA, DATED 2013



N

0 2,000

SCALE IN FEET

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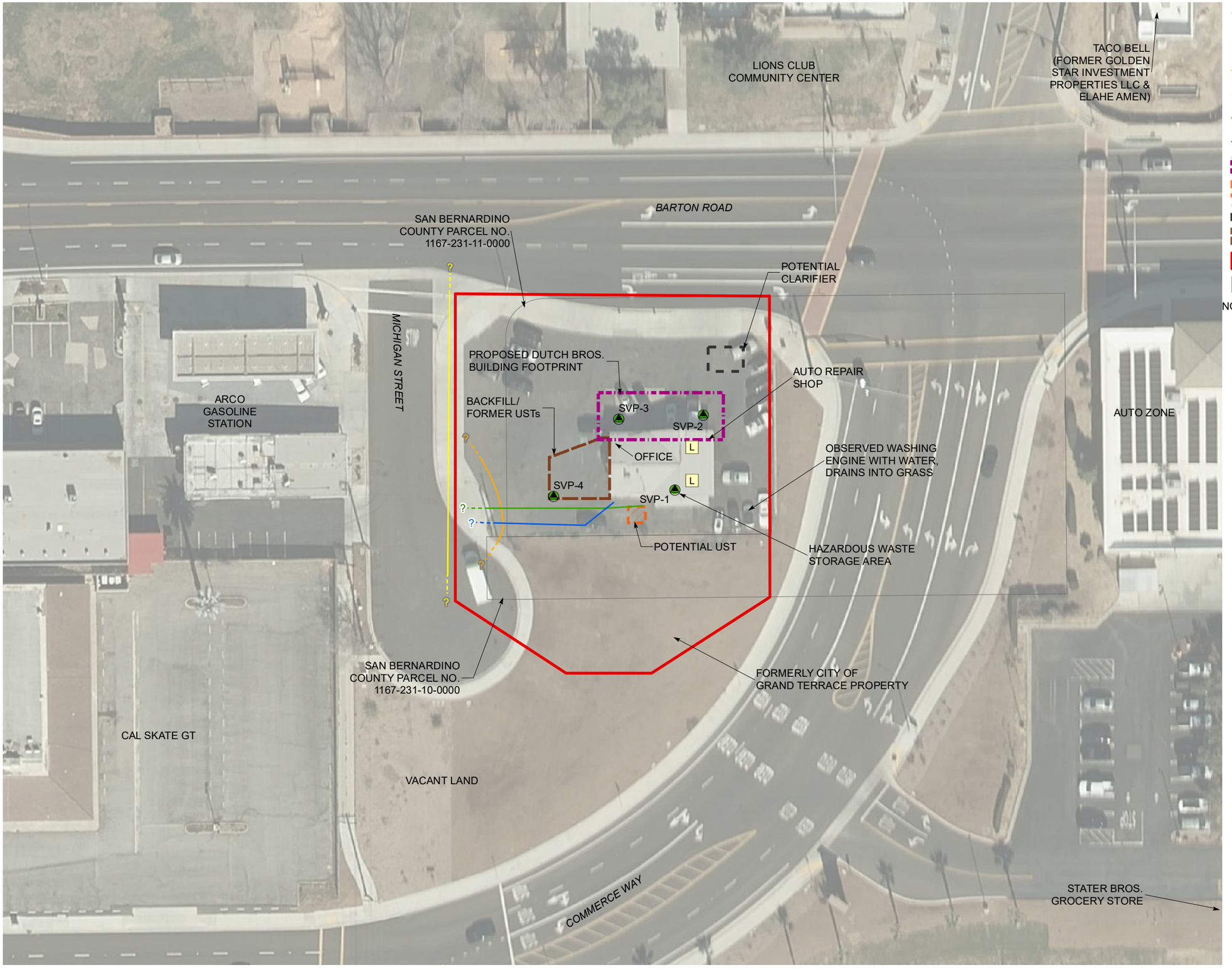
California
Oakland | Irvine

FIGURE 1

SUBJECT PROPERTY VICINITY MAP
22115 BARTON ROAD
GRAND TERRACE, CALIFORNIA

FARALLON PN: 2240-279

Drawn By: jjones | Checked By: NM | Date: 10/13/2023 | Disc Reference:
Q:\Projects\2240 Dutch Bros Coffee\279 CA5204 22115 Barton Rd\Mapfiles\001\Figure-01_SubjectPropertyVicinity.mxd



LEGEND

- SOIL VAPOR SAMPLE POINT (FARALLON, 2023)
- ABOVEGROUND HYDRAULIC LIFT
- COMMUNICATION LINE
- GAS LINE (3" STEEL)
- SEWER LINE
- WATER LINE
- PROPOSED DUTCH BROS. BUILDING FOOTPRINT
- POTENTIAL UST (DETECTED BY GPR)
- POTENTIAL CLARIFIER (DETECTED BY GPR)
- BACKFILL/FORMER USTs (DETECTED BY GPR)
- SUBJECT PROPERTY BOUNDARY
- SAN BERNARDINO COUNTY PARCEL BOUNDARY

NOTES:
GPR = GROUND-PENETRATING RADAR
UST = UNDERGROUND STORAGE TANK

N

0 50
SCALE IN FEET

FIGURE 2

SUBJECT PROPERTY PLAN
22115 BARTON ROAD
GRAND TERRACE, CALIFORNIA

FARALLON PN: 2240-279

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Drawn By: jjones Checked By: NM Date: 10/18/2023

Q:\Projects\2240 Dutch Bros Coffee\279 CA5204 22115 Barton Rd\Mapfiles\001\Figure-02_SubjectPropertyPlan.mxd

TABLE

LIMITED SOIL GAS INVESTIGATION
AND GROUND-PENETRATING RADAR SURVEY
Dutch Bros Project No. CA-5204
22115 Barton Road
Grand Terrace, California

Farallon PN: 2240-279

Table 1
Soil Gas Analytical Results for Volatile Organic Compounds
22115 Barton Road
Grand Terrace, California
Farallon PN: 2240-279

Sample Location	Sample Identification	Sample Depth (feet)[1]	Sample Date	Analytical Results (micrograms per cubic meter)[2]																					
				1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Butanone (Methyl Ethyl Ketone)	2-Propanol	4-Ethyltoluene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Carbon Disulfide	Chlorobenzene	Chloromethane	Dichlorodifluoromethane	Ethylbenzene	Hexane	Methylene Chloride	Styrene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	Trichlorofluoromethane	m,p-Xylene	o-Xylene	Xylenes
SVP-1	SVP-1	5.0	9/25/2023	2.0	< 1.3	8.4	4.1	< 1.3	1.3	17	< 0.83	4.2	< 1.2	< 0.54	3.8	2.1	0.93	3.9	< 1.1	6.6	2.1	< 1.0	14	11	5.2	16
SVP-2	SVP-2	5.0	9/25/2023	6.3	3.5	8.5	16	2.1	< 1.1	25	4.7	8.1	< 1.3	< 0.58	3.8	3.1	< 0.99	1.3	< 1.2	12	25	3.7	7.0	37	5.9	43
SVP-3	SVP-3	5.0	9/25/2023	2.0	< 1.5	7.4	7.9	< 1.5	2.3	44	**16**	6.1	5.0	1.2	2.4	2.1	1.9	5.7	3.9	**170**	6.3	< 1.2	< 1.7	5.3	2.5	7.7
SVP-4	SVP-4	5.0	9/25/2023	< 1.4	< 1.4	4.7	13	< 1.4	< 1.1	5.7	< 0.89	9.5	< 1.3	< 0.58	5.3	< 1.2	1.3	2.9	< 1.2	9.6	5.1	< 1.1	8.5	< 2.4	< 1.2	< 1.2
Water Board ESLs for Subslab/Soil Gas - Commercial/Industrial[3]				**NE**	**NE**	**730,000**	**NE**	**NE**	**440,000**	**4,500,000**	**14**	**NE**	**7,300**	**13,000**	**NE**	**160**	**NE**	**410**	**130,000**	**67**	**44,000**	**12,000**	**NE**	**15,000**		**15,000**

NOTES:

Results in **bold** and highlighted yellow denote concentrations exceeding applicable ESLs.

< denotes analyte not detected at or exceeding the reporting limit listed.

[1]Depth in feet below ground surface.

[2]Analyzed by U.S. Environmental Protection Agency Method TO-15. Only detected analytes shown in table; see laboratory report for full list of analytes.

[3]San Francisco Bay Regional Water Quality Control Board (Water Board) Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels, (Table SG-1), dated 2019 (Rev 2).

ESL = environmental screening level

NE = not established

ATTACHMENT A
LABORATORY ANALYTICAL REPORT

LIMITED SOIL GAS INVESTIGATION
AND GROUND-PENETRATING RADAR SURVEY
Dutch Bros Project No. CA-5204
22115 Barton Road
Grand Terrace, California

Farallon PN: 2240-279

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

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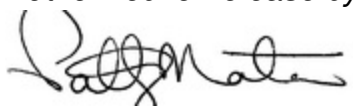
Lab Job Number: 492877
Report Level: II
Report Date: 10/02/2023

Analytical Report *prepared for:*

Beth Padgett
Farallon Consulting
27 Mauchy
Suite 213
Irvine, CA 92618

Location: 22115 Barton Road, 2240-250

Authorized for release by:



Patty Mata, Project Manager
patty.mata@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Beth Padgett
Farallon Consulting
27 Mauchy
Suite 213
Irvine, CA 92618

Lab Job #: 492877
Location: 22115 Barton Road, 2240-250
Date Received: 09/25/23

Sample ID	Lab ID	Collected	Matrix
SVP-4	492877-001	09/25/23 13:38	Air
SVP-3	492877-002	09/25/23 13:59	Air
SVP-2	492877-003	09/25/23 14:24	Air
SVP-1	492877-004	09/25/23 14:50	Air

ENTHALPY ANALYTICAL

Case Narrative

Farallon Consulting
27 Mauchy
Suite 213
Irvine, CA 92618
Beth Padgett

Lab Job Number: 492877
Location: 22115 Barton Road, 2240-250
Date Received: 09/25/23

This data package contains sample and QC results for four air samples, requested for the above referenced project on 09/25/23. The samples were received intact.

Volatile Organics in Air by MS (EPA TO-15):
No analytical problems were encountered.

931 W. Barkley Ave., Orange, CA 92868
Phone: (714) 771-6900 Fax: (714) 538-1209

ENTHALPY ANALYTICAL

Air Chain of Custody Record

Lab Job No. 492873

Page 1 of 1

CUSTOMER INFORMATION		PROJECT INFORMATION		PO Number:
Company:	FARALLON CONSULTING	Name:	22115 BARTON ROAD	
Report To:	BETH PADGETT	Number:	2240-250	Lab Quote Number:
Email:	BPADGETT@FARALLONCONSULTING.COM	Address:	22115 BARTON RD	
Address:	27 MAUCHLY SUITE 213		GRAND TERRACE, CA 92313	
	IRVINE, CA 92618	Global ID:		
Phone:	Fax:	Sampled By:	N. MONTOY	

Special Instructions: TRACER: 1,1 DFA

Analysis Request: TO-15

Required Turnaround Time: Standard ☑ | 5 Day ☐ | 3 Day ☐ | 2 Day ☐ | 1 Day ☐ | Custom TAT: ____

	Sample ID	Air Type (I) Indoor (A) Ambient (SV) Soil Vapor	Equipment Information: Canister ID	Canister Size (6L or 1L)	Flow Controller ID	Start Sampling Information: Date	Time	Canister Pressure (in. Hg)	Stop Sampling Information: Date	Time	Canister Pressure (in. Hg)	Comments
1	SVP-4	SV	C11043	1L	A10078	9/25/23	1328	-29	9/25/23	1338	-2	
2	SVP-3	"	C11582	"	A10137	"	1351	-24	"	1359	-1	
3	SVP-2	"	C10007	"	A10678	"	1415	-26	"	1424	-1	
4	SVP-1	"	C11625	"	A10691	"	1440	-28	"	1450	-2	
5												
6												
7												
8												
9												
10												

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE / TIME
RELINQUISHED BY:		N. MONTOY	FARALLON	9/25/23 1631
RECEIVED BY:			~~GT~~ EA	9/25/23 1605
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:				

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SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Farallon Consulting Project: 22115 Barton Road

Date Received: 9/22/23 Sampler's Name Present: ☐ Yes ☑ No

Section 2

Sample(s) received in a cooler? ☐ Yes, How many? _____ ☑ No (skip section 2) Sample Temp (°C) (No Cooler): ambient

Sample Temp (°C), One from each cooler: #1: _____ #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☐ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 9/22/23

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ENTHALPY ANALYTICAL

Analysis Results for 492877

Beth Padgett
Farallon Consulting
27 Mauchy
Suite 213
Irvine, CA 92618

Lab Job #: 492877
Location: 22115 Barton Road, 2240-250
Date Received: 09/25/23

Sample ID: SVP-4 **Lab ID: 492877-001** **Collected: 09/25/23 13:38**
Matrix: Air

492877-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA TO-15 Prep Method: METHOD									
1,1-Difluoroethane	ND		ppbv	1.4	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,1-Difluoroethane	ND		ug/m3	3.8	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Freon 12	**1.1**		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Freon 12	**5.3**		ug/m3	1.4	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Freon 114	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Freon 114	ND		ug/m3	2.0	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Chloromethane	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Chloromethane	ND		ug/m3	0.58	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Vinyl Chloride	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Vinyl Chloride	ND		ug/m3	0.72	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Bromomethane	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Bromomethane	ND		ug/m3	1.1	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Chloroethane	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Chloroethane	ND		ug/m3	0.74	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Trichlorofluoromethane	**1.5**		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Trichlorofluoromethane	**8.5**		ug/m3	1.6	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,1-Dichloroethene	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,1-Dichloroethene	ND		ug/m3	1.1	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Freon 113	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Freon 113	ND		ug/m3	2.1	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Acetone	**2.4**		ppbv	1.4	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Acetone	**5.7**		ug/m3	3.3	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Carbon Disulfide	**3.0**		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Carbon Disulfide	**9.5**		ug/m3	0.87	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Isopropanol (IPA)	**5.4**		ppbv	1.4	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Isopropanol (IPA)	**13**		ug/m3	3.4	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Methylene Chloride	**0.84**		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Methylene Chloride	**2.9**		ug/m3	0.97	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
trans-1,2-Dichloroethene	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
trans-1,2-Dichloroethene	ND		ug/m3	1.1	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
MTBE	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
MTBE	ND		ug/m3	1.0	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
n-Hexane	**0.37**		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
n-Hexane	**1.3**		ug/m3	0.99	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 492877

492877-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,1-Dichloroethane	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,1-Dichloroethane	ND		ug/m3	1.1	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Vinyl Acetate	ND		ppbv	1.4	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Vinyl Acetate	ND		ug/m3	4.9	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
cis-1,2-Dichloroethene	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
cis-1,2-Dichloroethene	ND		ug/m3	1.1	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
2-Butanone	**1.6**		ppbv	1.4	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
2-Butanone	**4.7**		ug/m3	4.1	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Chloroform	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Chloroform	ND		ug/m3	1.4	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,1,1-Trichloroethane	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,1,1-Trichloroethane	ND		ug/m3	1.5	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Carbon Tetrachloride	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Carbon Tetrachloride	ND		ug/m3	1.8	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Benzene	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Benzene	ND		ug/m3	0.89	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,2-Dichloroethane	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,2-Dichloroethane	ND		ug/m3	1.1	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Trichloroethene	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Trichloroethene	ND		ug/m3	1.5	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,2-Dichloropropane	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,2-Dichloropropane	ND		ug/m3	1.3	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Bromodichloromethane	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Bromodichloromethane	ND		ug/m3	1.9	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
cis-1,3-Dichloropropene	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
cis-1,3-Dichloropropene	ND		ug/m3	1.3	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
4-Methyl-2-Pentanone	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
4-Methyl-2-Pentanone	ND		ug/m3	1.1	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Toluene	**1.4**		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Toluene	**5.1**		ug/m3	1.1	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
trans-1,3-Dichloropropene	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
trans-1,3-Dichloropropene	ND		ug/m3	1.3	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,1,2-Trichloroethane	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,1,2-Trichloroethane	ND		ug/m3	1.5	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Tetrachloroethene	**1.4**		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Tetrachloroethene	**9.6**		ug/m3	1.9	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
2-Hexanone	ND		ppbv	0.70	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
2-Hexanone	ND		ug/m3	2.9	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Dibromochloromethane	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Dibromochloromethane	ND		ug/m3	2.4	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,2-Dibromoethane	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,2-Dibromoethane	ND		ug/m3	2.2	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Chlorobenzene	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Chlorobenzene	ND		ug/m3	1.3	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Ethylbenzene	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Ethylbenzene	ND		ug/m3	1.2	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 492877

492877-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
m,p-Xylenes	ND		ppbv	0.56	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
m,p-Xylenes	ND		ug/m3	2.4	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
o-Xylene	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
o-Xylene	ND		ug/m3	1.2	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Styrene	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Styrene	ND		ug/m3	1.2	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Bromoform	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Bromoform	ND		ug/m3	2.9	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,1,2,2-Tetrachloroethane	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,1,2,2-Tetrachloroethane	ND		ug/m3	1.9	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,1,1,2-Tetrachloroethane	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,1,1,2-Tetrachloroethane	ND		ug/m3	1.9	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
4-Ethyltoluene	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
4-Ethyltoluene	ND		ug/m3	1.4	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,3,5-Trimethylbenzene	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,3,5-Trimethylbenzene	ND		ug/m3	1.4	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,2,4-Trimethylbenzene	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,2,4-Trimethylbenzene	ND		ug/m3	1.4	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,3-Dichlorobenzene	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,3-Dichlorobenzene	ND		ug/m3	1.7	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,4-Dichlorobenzene	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,4-Dichlorobenzene	ND		ug/m3	1.7	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Benzyl chloride	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Benzyl chloride	ND		ug/m3	1.4	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,2-Dichlorobenzene	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,2-Dichlorobenzene	ND		ug/m3	1.7	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,2,4-Trichlorobenzene	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
1,2,4-Trichlorobenzene	ND		ug/m3	2.1	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Hexachlorobutadiene	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Hexachlorobutadiene	ND		ug/m3	3.0	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Xylene (total)	ND		ppbv	0.28	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Xylene (total)	ND		ug/m3	1.2	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC
Surrogates				**Limits**					
Bromofluorobenzene	101%		%REC	60-140	1.4	323152	09/26/23 19:46	09/26/23 19:46	MBC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 492877

Sample ID: SVP-3	Lab ID: 492877-002	Collected: 09/25/23 13:59
	Matrix: Air	

492877-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA TO-15 Prep Method: METHOD									
1,1-Difluoroethane	ND		ppbv	1.5	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,1-Difluoroethane	ND		ug/m3	4.1	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Freon 12	**0.49**		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Freon 12	**2.4**		ug/m3	1.5	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Freon 114	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Freon 114	ND		ug/m3	2.1	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Chloromethane	**0.56**		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Chloromethane	**1.2**		ug/m3	0.62	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Vinyl Chloride	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Vinyl Chloride	ND		ug/m3	0.77	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Bromomethane	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Bromomethane	ND		ug/m3	1.2	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Chloroethane	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Chloroethane	ND		ug/m3	0.79	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Trichlorofluoromethane	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Trichlorofluoromethane	ND		ug/m3	1.7	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,1-Dichloroethene	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,1-Dichloroethene	ND		ug/m3	1.2	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Freon 113	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Freon 113	ND		ug/m3	2.3	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Acetone	**19**		ppbv	1.5	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Acetone	**44**		ug/m3	3.6	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Carbon Disulfide	**2.0**		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Carbon Disulfide	**6.1**		ug/m3	0.93	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Isopropanol (IPA)	**3.2**		ppbv	1.5	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Isopropanol (IPA)	**7.9**		ug/m3	3.7	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Methylene Chloride	**1.6**		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Methylene Chloride	**5.7**		ug/m3	1.0	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
trans-1,2-Dichloroethene	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
trans-1,2-Dichloroethene	ND		ug/m3	1.2	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
MTBE	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
MTBE	ND		ug/m3	1.1	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
n-Hexane	**0.53**		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
n-Hexane	**1.9**		ug/m3	1.1	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,1-Dichloroethane	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,1-Dichloroethane	ND		ug/m3	1.2	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Vinyl Acetate	ND		ppbv	1.5	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Vinyl Acetate	ND		ug/m3	5.3	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
cis-1,2-Dichloroethene	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
cis-1,2-Dichloroethene	ND		ug/m3	1.2	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 492877

492877-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
2-Butanone	**2.5**		ppbv	1.5	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
2-Butanone	**7.4**		ug/m3	4.4	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Chloroform	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Chloroform	ND		ug/m3	1.5	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,1,1-Trichloroethane	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,1,1-Trichloroethane	ND		ug/m3	1.6	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Carbon Tetrachloride	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Carbon Tetrachloride	ND		ug/m3	1.9	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Benzene	**5.0**		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Benzene	**16**		ug/m3	0.96	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,2-Dichloroethane	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,2-Dichloroethane	ND		ug/m3	1.2	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Trichloroethene	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Trichloroethene	ND		ug/m3	1.6	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,2-Dichloropropane	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,2-Dichloropropane	ND		ug/m3	1.4	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Bromodichloromethane	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Bromodichloromethane	ND		ug/m3	2.0	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
cis-1,3-Dichloropropene	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
cis-1,3-Dichloropropene	ND		ug/m3	1.4	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
4-Methyl-2-Pentanone	**0.56**		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
4-Methyl-2-Pentanone	**2.3**		ug/m3	1.2	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Toluene	**1.7**		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Toluene	**6.3**		ug/m3	1.1	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
trans-1,3-Dichloropropene	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
trans-1,3-Dichloropropene	ND		ug/m3	1.4	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,1,2-Trichloroethane	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,1,2-Trichloroethane	ND		ug/m3	1.6	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Tetrachloroethene	**26**		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Tetrachloroethene	**170**		ug/m3	2.0	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
2-Hexanone	ND		ppbv	0.75	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
2-Hexanone	ND		ug/m3	3.1	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Dibromochloromethane	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Dibromochloromethane	ND		ug/m3	2.6	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,2-Dibromoethane	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,2-Dibromoethane	ND		ug/m3	2.3	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Chlorobenzene	**1.1**		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Chlorobenzene	**5.0**		ug/m3	1.4	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Ethylbenzene	**0.48**		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Ethylbenzene	**2.1**		ug/m3	1.3	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
m,p-Xylenes	**1.2**		ppbv	0.60	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
m,p-Xylenes	**5.3**		ug/m3	2.6	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
o-Xylene	**0.57**		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
o-Xylene	**2.5**		ug/m3	1.3	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Styrene	**0.92**		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Styrene	**3.9**		ug/m3	1.3	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 492877

492877-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Bromoform	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Bromoform	ND		ug/m3	3.1	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,1,2,2-Tetrachloroethane	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,1,2,2-Tetrachloroethane	ND		ug/m3	2.1	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,1,1,2-Tetrachloroethane	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,1,1,2-Tetrachloroethane	ND		ug/m3	2.1	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
4-Ethyltoluene	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
4-Ethyltoluene	ND		ug/m3	1.5	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,3,5-Trimethylbenzene	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,3,5-Trimethylbenzene	ND		ug/m3	1.5	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,2,4-Trimethylbenzene	**0.41**		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,2,4-Trimethylbenzene	**2.0**		ug/m3	1.5	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,3-Dichlorobenzene	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,3-Dichlorobenzene	ND		ug/m3	1.8	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,4-Dichlorobenzene	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,4-Dichlorobenzene	ND		ug/m3	1.8	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Benzyl chloride	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Benzyl chloride	ND		ug/m3	1.6	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,2-Dichlorobenzene	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,2-Dichlorobenzene	ND		ug/m3	1.8	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,2,4-Trichlorobenzene	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
1,2,4-Trichlorobenzene	ND		ug/m3	2.2	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Hexachlorobutadiene	ND		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Hexachlorobutadiene	ND		ug/m3	3.2	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Xylene (total)	**1.8**		ppbv	0.30	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Xylene (total)	**7.7**		ug/m3	1.3	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC
Surrogates				**Limits**					
Bromofluorobenzene	107%		%REC	60-140	1.5	323152	09/26/23 20:35	09/26/23 20:35	MBC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 492877

Sample ID: SVP-2	Lab ID: 492877-003	Collected: 09/25/23 14:24
	Matrix: Air	

492877-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA TO-15 Prep Method: METHOD									
1,1-Difluoroethane	ND		ppbv	1.4	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,1-Difluoroethane	ND		ug/m3	3.8	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Freon 12	**0.78**		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Freon 12	**3.8**		ug/m3	1.4	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Freon 114	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Freon 114	ND		ug/m3	2.0	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Chloromethane	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Chloromethane	ND		ug/m3	0.58	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Vinyl Chloride	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Vinyl Chloride	ND		ug/m3	0.72	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Bromomethane	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Bromomethane	ND		ug/m3	1.1	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Chloroethane	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Chloroethane	ND		ug/m3	0.74	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Trichlorofluoromethane	**1.2**		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Trichlorofluoromethane	**7.0**		ug/m3	1.6	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,1-Dichloroethene	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,1-Dichloroethene	ND		ug/m3	1.1	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Freon 113	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Freon 113	ND		ug/m3	2.1	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Acetone	**11**		ppbv	1.4	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Acetone	**25**		ug/m3	3.3	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Carbon Disulfide	**2.6**		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Carbon Disulfide	**8.1**		ug/m3	0.87	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Isopropanol (IPA)	**6.3**		ppbv	1.4	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Isopropanol (IPA)	**16**		ug/m3	3.4	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Methylene Chloride	**0.37**		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Methylene Chloride	**1.3**		ug/m3	0.97	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
trans-1,2-Dichloroethene	**0.94**		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
trans-1,2-Dichloroethene	**3.7**		ug/m3	1.1	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
MTBE	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
MTBE	ND		ug/m3	1.0	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
n-Hexane	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
n-Hexane	ND		ug/m3	0.99	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,1-Dichloroethane	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,1-Dichloroethane	ND		ug/m3	1.1	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Vinyl Acetate	ND		ppbv	1.4	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Vinyl Acetate	ND		ug/m3	4.9	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
cis-1,2-Dichloroethene	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
cis-1,2-Dichloroethene	ND		ug/m3	1.1	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 492877

492877-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
2-Butanone	**2.9**		ppbv	1.4	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
2-Butanone	**8.5**		ug/m3	4.1	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Chloroform	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Chloroform	ND		ug/m3	1.4	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,1,1-Trichloroethane	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,1,1-Trichloroethane	ND		ug/m3	1.5	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Carbon Tetrachloride	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Carbon Tetrachloride	ND		ug/m3	1.8	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Benzene	**1.5**		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Benzene	**4.7**		ug/m3	0.89	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,2-Dichloroethane	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,2-Dichloroethane	ND		ug/m3	1.1	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Trichloroethene	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Trichloroethene	ND		ug/m3	1.5	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,2-Dichloropropane	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,2-Dichloropropane	ND		ug/m3	1.3	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Bromodichloromethane	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Bromodichloromethane	ND		ug/m3	1.9	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
cis-1,3-Dichloropropene	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
cis-1,3-Dichloropropene	ND		ug/m3	1.3	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
4-Methyl-2-Pentanone	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
4-Methyl-2-Pentanone	ND		ug/m3	1.1	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Toluene	**6.6**		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Toluene	**25**		ug/m3	1.1	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
trans-1,3-Dichloropropene	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
trans-1,3-Dichloropropene	ND		ug/m3	1.3	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,1,2-Trichloroethane	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,1,2-Trichloroethane	ND		ug/m3	1.5	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Tetrachloroethene	**1.8**		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Tetrachloroethene	**12**		ug/m3	1.9	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
2-Hexanone	ND		ppbv	0.70	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
2-Hexanone	ND		ug/m3	2.9	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Dibromochloromethane	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Dibromochloromethane	ND		ug/m3	2.4	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,2-Dibromoethane	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,2-Dibromoethane	ND		ug/m3	2.2	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Chlorobenzene	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Chlorobenzene	ND		ug/m3	1.3	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Ethylbenzene	**0.71**		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Ethylbenzene	**3.1**		ug/m3	1.2	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
m,p-Xylenes	**8.5**		ppbv	0.56	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
m,p-Xylenes	**37**		ug/m3	2.4	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
o-Xylene	**1.3**		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
o-Xylene	**5.9**		ug/m3	1.2	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Styrene	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Styrene	ND		ug/m3	1.2	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC

Results for any subcontracted analyses are not included in this section.

Analysis Results for 492877

492877-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Bromoform	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Bromoform	ND		ug/m3	2.9	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,1,2,2-Tetrachloroethane	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,1,2,2-Tetrachloroethane	ND		ug/m3	1.9	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,1,1,2-Tetrachloroethane	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,1,1,2-Tetrachloroethane	ND		ug/m3	1.9	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
4-Ethyltoluene	**0.43**		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
4-Ethyltoluene	**2.1**		ug/m3	1.4	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,3,5-Trimethylbenzene	**0.70**		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,3,5-Trimethylbenzene	**3.5**		ug/m3	1.4	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,2,4-Trimethylbenzene	**1.3**		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,2,4-Trimethylbenzene	**6.3**		ug/m3	1.4	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,3-Dichlorobenzene	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,3-Dichlorobenzene	ND		ug/m3	1.7	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,4-Dichlorobenzene	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,4-Dichlorobenzene	ND		ug/m3	1.7	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Benzyl chloride	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Benzyl chloride	ND		ug/m3	1.4	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,2-Dichlorobenzene	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,2-Dichlorobenzene	ND		ug/m3	1.7	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,2,4-Trichlorobenzene	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
1,2,4-Trichlorobenzene	ND		ug/m3	2.1	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Hexachlorobutadiene	ND		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Hexachlorobutadiene	ND		ug/m3	3.0	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Xylene (total)	**9.9**		ppbv	0.28	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Xylene (total)	**43**		ug/m3	1.2	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC
Surrogates				**Limits**					
Bromofluorobenzene	103%		%REC	60-140	1.4	323152	09/26/23 21:24	09/26/23 21:24	MBC

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 492877

Sample ID: SVP-1	Lab ID: 492877-004	Collected: 09/25/23 14:50
	Matrix: Air	

492877-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA TO-15 Prep Method: METHOD									
1,1-Difluoroethane	ND		ppbv	1.3	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,1-Difluoroethane	ND		ug/m3	3.5	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Freon 12	**0.77**		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Freon 12	**3.8**		ug/m3	1.3	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Freon 114	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Freon 114	ND		ug/m3	1.8	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Chloromethane	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Chloromethane	ND		ug/m3	0.54	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Vinyl Chloride	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Vinyl Chloride	ND		ug/m3	0.66	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Bromomethane	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Bromomethane	ND		ug/m3	1.0	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Chloroethane	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Chloroethane	ND		ug/m3	0.69	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Trichlorofluoromethane	**2.5**		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Trichlorofluoromethane	**14**		ug/m3	1.5	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,1-Dichloroethene	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,1-Dichloroethene	ND		ug/m3	1.0	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Freon 113	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Freon 113	ND		ug/m3	2.0	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Acetone	**7.0**		ppbv	1.3	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Acetone	**17**		ug/m3	3.1	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Carbon Disulfide	**1.3**		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Carbon Disulfide	**4.2**		ug/m3	0.81	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Isopropanol (IPA)	**1.7**		ppbv	1.3	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Isopropanol (IPA)	**4.1**		ug/m3	3.2	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Methylene Chloride	**1.1**		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Methylene Chloride	**3.9**		ug/m3	0.90	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
trans-1,2-Dichloroethene	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
trans-1,2-Dichloroethene	ND		ug/m3	1.0	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
MTBE	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
MTBE	ND		ug/m3	0.94	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
n-Hexane	**0.26**		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
n-Hexane	**0.93**		ug/m3	0.92	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,1-Dichloroethane	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,1-Dichloroethane	ND		ug/m3	1.1	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Vinyl Acetate	ND		ppbv	1.3	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Vinyl Acetate	ND		ug/m3	4.6	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
cis-1,2-Dichloroethene	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
cis-1,2-Dichloroethene	ND		ug/m3	1.0	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 492877

492877-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
2-Butanone	**2.9**		ppbv	1.3	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
2-Butanone	**8.4**		ug/m3	3.8	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Chloroform	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Chloroform	ND		ug/m3	1.3	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,1,1-Trichloroethane	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,1,1-Trichloroethane	ND		ug/m3	1.4	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Carbon Tetrachloride	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Carbon Tetrachloride	ND		ug/m3	1.6	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Benzene	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Benzene	ND		ug/m3	0.83	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,2-Dichloroethane	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,2-Dichloroethane	ND		ug/m3	1.1	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Trichloroethene	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Trichloroethene	ND		ug/m3	1.4	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,2-Dichloropropane	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,2-Dichloropropane	ND		ug/m3	1.2	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Bromodichloromethane	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Bromodichloromethane	ND		ug/m3	1.7	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
cis-1,3-Dichloropropene	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
cis-1,3-Dichloropropene	ND		ug/m3	1.2	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
4-Methyl-2-Pentanone	**0.33**		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
4-Methyl-2-Pentanone	**1.3**		ug/m3	1.1	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Toluene	**0.56**		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Toluene	**2.1**		ug/m3	0.98	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
trans-1,3-Dichloropropene	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
trans-1,3-Dichloropropene	ND		ug/m3	1.2	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,1,2-Trichloroethane	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,1,2-Trichloroethane	ND		ug/m3	1.4	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Tetrachloroethene	**0.97**		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Tetrachloroethene	**6.6**		ug/m3	1.8	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
2-Hexanone	ND		ppbv	0.65	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
2-Hexanone	ND		ug/m3	2.7	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Dibromochloromethane	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Dibromochloromethane	ND		ug/m3	2.2	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,2-Dibromoethane	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,2-Dibromoethane	ND		ug/m3	2.0	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Chlorobenzene	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Chlorobenzene	ND		ug/m3	1.2	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Ethylbenzene	**0.48**		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Ethylbenzene	**2.1**		ug/m3	1.1	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
m,p-Xylenes	**2.5**		ppbv	0.52	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
m,p-Xylenes	**11**		ug/m3	2.3	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
o-Xylene	**1.2**		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
o-Xylene	**5.2**		ug/m3	1.1	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Styrene	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Styrene	ND		ug/m3	1.1	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 492877

492877-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Bromoform	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Bromoform	ND		ug/m3	2.7	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,1,2,2-Tetrachloroethane	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,1,2,2-Tetrachloroethane	ND		ug/m3	1.8	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,1,1,2-Tetrachloroethane	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,1,1,2-Tetrachloroethane	ND		ug/m3	1.8	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
4-Ethyltoluene	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
4-Ethyltoluene	ND		ug/m3	1.3	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,3,5-Trimethylbenzene	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,3,5-Trimethylbenzene	ND		ug/m3	1.3	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,2,4-Trimethylbenzene	**0.40**		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,2,4-Trimethylbenzene	**2.0**		ug/m3	1.3	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,3-Dichlorobenzene	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,3-Dichlorobenzene	ND		ug/m3	1.6	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,4-Dichlorobenzene	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,4-Dichlorobenzene	ND		ug/m3	1.6	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Benzyl chloride	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Benzyl chloride	ND		ug/m3	1.3	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,2-Dichlorobenzene	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,2-Dichlorobenzene	ND		ug/m3	1.6	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,2,4-Trichlorobenzene	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
1,2,4-Trichlorobenzene	ND		ug/m3	1.9	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Hexachlorobutadiene	ND		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Hexachlorobutadiene	ND		ug/m3	2.8	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Xylene (total)	**3.7**		ppbv	0.26	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Xylene (total)	**16**		ug/m3	1.1	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC
Surrogates				**Limits**					
Bromofluorobenzene	102%		%REC	60-140	1.3	323152	09/26/23 22:13	09/26/23 22:13	MBC

ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample**	**Lab ID:**	**QC1095965**	**Batch:**	**323152**
Matrix:	**Air**	**Method:**	**EPA TO-15**	**Prep Method:**	**METHOD**

QC1095965 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Difluoroethane	10.34	10.00	ppbv	103%		70-130
Freon 12	9.708	10.00	ppbv	97%		70-130
Freon 114	9.838	10.00	ppbv	98%		70-130
Chloromethane	9.817	10.00	ppbv	98%		70-130
Vinyl Chloride	9.824	10.00	ppbv	98%		70-130
Bromomethane	9.554	10.00	ppbv	96%		70-130
Chloroethane	9.787	10.00	ppbv	98%		70-130
Trichlorofluoromethane	9.897	10.00	ppbv	99%		70-130
1,1-Dichloroethene	10.02	10.00	ppbv	100%		70-130
Freon 113	9.896	10.00	ppbv	99%		70-130
Acetone	9.786	10.00	ppbv	98%		70-130
Carbon Disulfide	10.09	10.00	ppbv	101%		70-130
Isopropanol (IPA)	10.32	10.00	ppbv	103%		70-130
Methylene Chloride	9.862	10.00	ppbv	99%		70-130
trans-1,2-Dichloroethene	10.03	10.00	ppbv	100%		70-130
MTBE	10.13	10.00	ppbv	101%		70-130
n-Hexane	9.883	10.00	ppbv	99%		70-130
1,1-Dichloroethane	10.04	10.00	ppbv	100%		70-130
Vinyl Acetate	9.626	10.00	ppbv	96%		70-130
cis-1,2-Dichloroethene	10.20	10.00	ppbv	102%		70-130
2-Butanone	10.48	10.00	ppbv	105%		70-130
Chloroform	9.890	10.00	ppbv	99%		70-130
1,1,1-Trichloroethane	10.00	10.00	ppbv	100%		70-130
Carbon Tetrachloride	9.941	10.00	ppbv	99%		70-130
Benzene	9.777	10.00	ppbv	98%		70-130
1,2-Dichloroethane	9.946	10.00	ppbv	99%		70-130
Trichloroethene	10.19	10.00	ppbv	102%		70-130
1,2-Dichloropropane	9.485	10.00	ppbv	95%		70-130
Bromodichloromethane	10.52	10.00	ppbv	105%		70-130
cis-1,3-Dichloropropene	10.58	10.00	ppbv	106%		70-130
4-Methyl-2-Pentanone	11.06	10.00	ppbv	111%		70-130
Toluene	10.18	10.00	ppbv	102%		70-130
trans-1,3-Dichloropropene	11.05	10.00	ppbv	111%		70-130
1,1,2-Trichloroethane	10.34	10.00	ppbv	103%		70-130
Tetrachloroethene	10.21	10.00	ppbv	102%		70-130
2-Hexanone	12.59	10.00	ppbv	126%		70-130
Dibromochloromethane	10.54	10.00	ppbv	105%		70-130
1,2-Dibromoethane	10.86	10.00	ppbv	109%		70-130
Chlorobenzene	10.03	10.00	ppbv	100%		70-130
Ethylbenzene	10.36	10.00	ppbv	104%		70-130
m,p-Xylenes	21.11	20.00	ppbv	106%		70-130
o-Xylene	10.53	10.00	ppbv	105%		70-130

ENTHALPY ANALYTICAL

Batch QC

QC1095965 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Styrene	11.57	10.00	ppbv	116%		70-130
Bromoform	11.08	10.00	ppbv	111%		70-130
1,1,2,2-Tetrachloroethane	11.15	10.00	ppbv	112%		70-130
1,1,1,2-Tetrachloroethane	10.32	10.00	ppbv	103%		70-130
4-Ethyltoluene	11.18	10.00	ppbv	112%		70-130
1,3,5-Trimethylbenzene	10.97	10.00	ppbv	110%		70-130
1,2,4-Trimethylbenzene	11.42	10.00	ppbv	114%		70-130
1,3-Dichlorobenzene	10.66	10.00	ppbv	107%		70-130
1,4-Dichlorobenzene	10.48	10.00	ppbv	105%		70-130
Benzyl chloride	11.27	10.00	ppbv	113%		70-130
1,2-Dichlorobenzene	10.77	10.00	ppbv	108%		70-130
1,2,4-Trichlorobenzene	10.75	10.00	ppbv	107%		70-130
Hexachlorobutadiene	10.44	10.00	ppbv	104%		70-130
Surrogates						
Bromofluorobenzene	10.02	10.00	ppbv	100%		60-140

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC1095966**	**Batch:**	**323152**
Matrix:	**Air**	**Method:**	**EPA TO-15**	**Prep Method:**	**METHOD**

QC1095966 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Difluoroethane	10.49	10.00	ppbv	105%		70-130	1	25
Freon 12	9.744	10.00	ppbv	97%		70-130	0	25
Freon 114	9.968	10.00	ppbv	100%		70-130	1	25
Chloromethane	9.829	10.00	ppbv	98%		70-130	0	25
Vinyl Chloride	9.917	10.00	ppbv	99%		70-130	1	25
Bromomethane	9.683	10.00	ppbv	97%		70-130	1	25
Chloroethane	9.963	10.00	ppbv	100%		70-130	2	25
Trichlorofluoromethane	9.898	10.00	ppbv	99%		70-130	0	25
1,1-Dichloroethene	10.09	10.00	ppbv	101%		70-130	1	25
Freon 113	10.00	10.00	ppbv	100%		70-130	1	25
Acetone	10.07	10.00	ppbv	101%		70-130	3	25
Carbon Disulfide	10.12	10.00	ppbv	101%		70-130	0	25
Isopropanol (IPA)	10.69	10.00	ppbv	107%		70-130	4	25
Methylene Chloride	9.949	10.00	ppbv	99%		70-130	1	25
trans-1,2-Dichloroethene	9.797	10.00	ppbv	98%		70-130	2	25
MTBE	9.998	10.00	ppbv	100%		70-130	1	25
n-Hexane	9.972	10.00	ppbv	100%		70-130	1	25
1,1-Dichloroethane	9.812	10.00	ppbv	98%		70-130	2	25
Vinyl Acetate	9.582	10.00	ppbv	96%		70-130	0	25
cis-1,2-Dichloroethene	9.975	10.00	ppbv	100%		70-130	2	25
2-Butanone	10.62	10.00	ppbv	106%		70-130	1	25
Chloroform	10.07	10.00	ppbv	101%		70-130	2	25
1,1,1-Trichloroethane	10.10	10.00	ppbv	101%		70-130	1	25
Carbon Tetrachloride	10.20	10.00	ppbv	102%		70-130	3	25
Benzene	9.935	10.00	ppbv	99%		70-130	2	25
1,2-Dichloroethane	10.00	10.00	ppbv	100%		70-130	1	25
Trichloroethene	10.36	10.00	ppbv	104%		70-130	2	25
1,2-Dichloropropane	9.531	10.00	ppbv	95%		70-130	0	25
Bromodichloromethane	10.51	10.00	ppbv	105%		70-130	0	25
cis-1,3-Dichloropropene	10.86	10.00	ppbv	109%		70-130	3	25
4-Methyl-2-Pentanone	11.22	10.00	ppbv	112%		70-130	1	25
Toluene	10.45	10.00	ppbv	104%		70-130	3	25
trans-1,3-Dichloropropene	11.45	10.00	ppbv	115%		70-130	4	25
1,1,2-Trichloroethane	10.23	10.00	ppbv	102%		70-130	1	25
Tetrachloroethene	10.50	10.00	ppbv	105%		70-130	3	25
2-Hexanone	12.80	10.00	ppbv	128%		70-130	2	25
Dibromochloromethane	10.74	10.00	ppbv	107%		70-130	2	25
1,2-Dibromoethane	11.26	10.00	ppbv	113%		70-130	4	25
Chlorobenzene	10.44	10.00	ppbv	104%		70-130	4	25
Ethylbenzene	10.48	10.00	ppbv	105%		70-130	1	25
m,p-Xylenes	21.35	20.00	ppbv	107%		70-130	1	25

ENTHALPY ANALYTICAL

Batch QC

QC1095966 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
o-Xylene	10.76	10.00	ppbv	108%		70-130	2	25
Styrene	11.91	10.00	ppbv	119%		70-130	3	25
Bromoform	11.42	10.00	ppbv	114%		70-130	3	25
1,1,2,2-Tetrachloroethane	11.05	10.00	ppbv	110%		70-130	1	25
1,1,1,2-Tetrachloroethane	10.50	10.00	ppbv	105%		70-130	2	25
4-Ethyltoluene	11.16	10.00	ppbv	112%		70-130	0	25
1,3,5-Trimethylbenzene	10.93	10.00	ppbv	109%		70-130	0	25
1,2,4-Trimethylbenzene	11.26	10.00	ppbv	113%		70-130	1	25
1,3-Dichlorobenzene	10.47	10.00	ppbv	105%		70-130	2	25
1,4-Dichlorobenzene	10.25	10.00	ppbv	103%		70-130	2	25
Benzyl chloride	11.04	10.00	ppbv	110%		70-130	2	25
1,2-Dichlorobenzene	10.69	10.00	ppbv	107%		70-130	1	25
1,2,4-Trichlorobenzene	10.11	10.00	ppbv	101%		70-130	6	25
Hexachlorobutadiene	10.03	10.00	ppbv	100%		70-130	4	25
Surrogates								
Bromofluorobenzene	9.853	10.00	ppbv	99%		60-140		

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC1095967**	**Batch:**	**323152**
Matrix:	**Air**	**Method:**	**EPA TO-15**	**Prep Method:**	**METHOD**

QC1095967 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
1,1-Difluoroethane	ND		ppbv	1.0	09/26/23 15:22	09/26/23 15:22
Freon 12	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Freon 114	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Chloromethane	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Vinyl Chloride	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Bromomethane	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Chloroethane	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Trichlorofluoromethane	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
1,1-Dichloroethene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Freon 113	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Acetone	ND		ppbv	1.0	09/26/23 15:22	09/26/23 15:22
Carbon Disulfide	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Isopropanol (IPA)	ND		ppbv	1.0	09/26/23 15:22	09/26/23 15:22
Methylene Chloride	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
trans-1,2-Dichloroethene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
MTBE	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
n-Hexane	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
1,1-Dichloroethane	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Vinyl Acetate	ND		ppbv	1.0	09/26/23 15:22	09/26/23 15:22
cis-1,2-Dichloroethene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
2-Butanone	ND		ppbv	1.0	09/26/23 15:22	09/26/23 15:22
Chloroform	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
1,1,1-Trichloroethane	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Carbon Tetrachloride	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Benzene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
1,2-Dichloroethane	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Trichloroethene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
1,2-Dichloropropane	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Bromodichloromethane	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
cis-1,3-Dichloropropene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
4-Methyl-2-Pentanone	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Toluene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
trans-1,3-Dichloropropene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
1,1,2-Trichloroethane	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Tetrachloroethene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
2-Hexanone	ND		ppbv	0.50	09/26/23 15:22	09/26/23 15:22
Dibromochloromethane	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
1,2-Dibromoethane	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Chlorobenzene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Ethylbenzene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
m,p-Xylenes	ND		ppbv	0.40	09/26/23 15:22	09/26/23 15:22
o-Xylene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22

ENTHALPY ANALYTICAL

Batch QC

QC1095967 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Styrene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Bromoform	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
1,1,2,2-Tetrachloroethane	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
1,1,1,2-Tetrachloroethane	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
4-Ethyltoluene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
1,3,5-Trimethylbenzene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
1,2,4-Trimethylbenzene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
1,3-Dichlorobenzene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
1,4-Dichlorobenzene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Benzyl chloride	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
1,2-Dichlorobenzene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
1,2,4-Trichlorobenzene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Hexachlorobutadiene	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Xylene (total)	ND		ppbv	0.20	09/26/23 15:22	09/26/23 15:22
Surrogates				**Limits**		
Bromofluorobenzene	98%		%REC	60-140	09/26/23 15:22	09/26/23 15:22

ND Not Detected

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Preliminary Water Quality Management Plan

For:

Dutch Bros Coffee CA5204

22115 Barton Road, Grand Terrace CA 92313

APNS 1167-231-10, 1167-231-11, AND VACANT LOT LOCATED DIRECTLY ADJACENT TO THE SOUTH

Prepared for:

Dutch Bros Coffee

110 SW 4th Street

Grants Pass, OR 97526

916-765-7270

Prepared by:

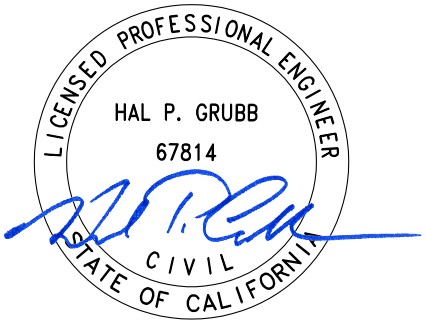
Barghausen Consulting Engineers, Inc.

18215 72nd Ave. South

Kent, WA 98032

425-251-6222

BCE#22144



05/08/2024

Submittal Date: 2/16/24

Revision Date: 5/9/24_____

Approval Date:_____

Project Owner's Certification

This Water Quality Management Plan (WQMP) has been prepared for Dutch Bros Coffee by Barghausen Consulting Engineers, Inc. . The WQMP is intended to comply with the requirements of the City of Grand Terrace and San Bernardino County and the NPDES Areawide Stormwater Program requiring the preparation of a WQMP. The undersigned, while it owns the subject property, is responsible for the implementation of the provisions of this plan and will ensure that this plan is amended as appropriate to reflect up-to-date conditions on the site consistent with San Bernardino County's Municipal Storm Water Management Program and the intent of the NPDES Permit for San Bernardino County and the incorporated cities of San Bernardino County within the Santa Ana Region. Once the undersigned transfers its interest in the property, its successors in interest and the city/county shall be notified of the transfer. The new owner will be informed of its responsibility under this WQMP. A copy of the approved WQMP shall be available on the subject site in perpetuity.

"I certify under a penalty of law that the provisions (implementation, operation, maintenance, and funding) of the WQMP have been accepted and that the plan will be transferred to future successors."

.

Project Data			
Permit/Application Number(s):		Grading Permit Number(s):	
Tract/Parcel Map Number(s):		Building Permit Number(s):	
CUP, SUP, and/or APN (Specify Lot Numbers if Portions of Tract):			APNs 1167-231-10, 1167-231-11, and vacant lot located directly adjacent to the south

Owner's Signature			
Owner Name: Mike Yasin (Salam Yasin Living Trust)			
Title			
Company			
Address	22087 Barton Road, Grand Terrace CA, 92313		
Email	m1yasin@yahoo.com		
Telephone #	949-701-1769		
Signature		Date	5/9/24

Preparer's Certification

Project Data			
Permit/Application Number(s):		Grading Permit Number(s):	
Tract/Parcel Map Number(s):	APNs 1167-231-10, 1167-231-11, and vacant lot located directly adjacent to the south	Building Permit Number(s):	
CUP, SUP, and/or APN (Specify Lot Numbers if Portions of Tract):			APNs 1167-231-10, 1167-231-12, 1167-231-11

"The selection, sizing and design of stormwater treatment and other stormwater quality and quantity control measures in this plan were prepared under my oversight and meet the requirements of Regional Water Quality Control Board Order No. R8-2010-0036."

Engineer: Hal P. Grubb, PE		PE Stamp Below
Title	Director of Engineering Services	
Company	Barghausen Consulting Engineers, Inc.	
Address	18215 72nd Ave. South, Kent WA, 98032	
Email	hgrubb@barghausen.com	
Telephone #	425-251-6222	
Signature		
Date	05/08/2024	05/08/2024

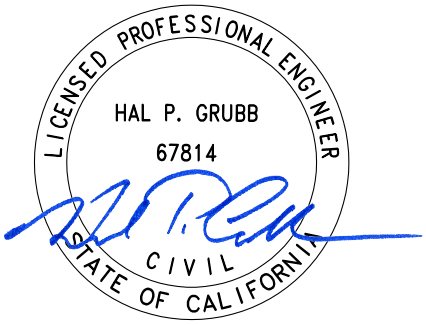


Table of Contents

Section 1 Discretionary Permits 1-1

Section 2 Project Description 2-1

2.1 Project Information 2-1
2.2 Property Ownership / Management 2-2
2.3 Potential Stormwater Pollutants 2-3
2.4 Water Quality Credits 2-4

Section 3 Site and Watershed Description 3-1

Section 4 Best Management Practices 4-1

4.1 Source Control BMP 4-1
4.1.1 Pollution Prevention 4-1
4.1.2 Preventative LID Site Design Practices 4-6
4.2 Project Performance Criteria 4-7
4.3 Project Conformance Analysis 4-12
4.3.1 Site Design Hydrologic Source Control BMP 4-14
4.3.2 Infiltration BMP 4-16
4.3.3 Harvest and Use BMP 4-18
4.3.4 Biotreatment BMP 4.19
4.3.5 Conformance Summary 4-23
4.3.6 Hydromodification Control BMP 4-24
4.4 Alternative Compliance Plan (if applicable) 4-25

Section 5 Inspection & Maintenance Responsibility Post Construction BMPs 5-1

Section 6 Site Plan and Drainage Plan 6-1

6.1. Site Plan and Drainage Plan 6-1
6.2 Electronic Data Submittal 6-1

Forms

Form 1-1 Project Information 1-1
Form 2.1-1 Description of Proposed Project 2-1
Form 2.2-1 Property Ownership/Management 2-2
Form 2.3-1 Pollutants of Concern 2-3
Form 2.4-1 Water Quality Credits 2-4
Form 3-1 Site Location and Hydrologic Features 3-1
Form 3-2 Hydrologic Characteristics 3-2
Form 3-3 Watershed Description 3-3
Form 4.1-1 Non-Structural Source Control BMP 4-2
Form 4.1-2 Structural Source Control BMP 4-4
Form 4.1-3 Site Design Practices Checklist 4-6
Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume 4-7
Form 4.2-2 Summary of HCOC Assessment 4-8
Form 4.2-3 HCOC Assessment for Runoff Volume 4-9
Form 4.2-4 HCOC Assessment for Time of Concentration 4-10

Form 4.2-5 HCOC Assessment for Peak Runoff..... 4-11
Form 4.3-1 Infiltration BMP Feasibility 4-13
Form 4.3-2 Site Design Hydrologic Source Control BMP 4-14
Form 4.3-3 Infiltration LID BMP..... 4-17
Form 4.3-4 Harvest and Use BMP 4-18
Form 4.3-5 Selection and Evaluation of Biotreatment BMP 4-19
Form 4.3-6 Volume Based Biotreatment – Bioretention and Planter Boxes w/Underdrains 4-20
Form 4.3-7 Volume Based Biotreatment- Constructed Wetlands and Extended Detention 4-21
Form 4.3-8 Flow Based Biotreatment 4-22
Form 4.3-9 Conformance Summary and Alternative Compliance Volume Estimate 4-23
Form 4.3-10 Hydromodification Control BMP 4-24
Form 5-1 BMP Inspection and Maintenance 5-1

Appendix A – ALTA Survey

Appendix B – Site Photos

Appendix C – Land Usage Characteristics Pre and Post Development Maps with Proposed Structural BMP Layout

Appendix D – Geotechnical Report

Appendix E – Preliminary Site Plan and Preliminary Grading Plan

Appendix F – Modular Wetland Design Calculation

Appendix G – Modular Wetlands System Product Data

Appendix H – BMP Maintenance Documentation

Appendix I – Modular Wetlands Washington State TAPE Approval

Section 1 Discretionary Permit(s)

Form 1-1 Project Information					
Project Name	Dutch Bros - CA5204				
Project Owner Contact Name:	Mike Yasin (Salam Yasin Living Trust)				
Mailing Address:	22087 Barton Road, Grand Terrace CA, 92313	E-mail Address:	m1yasin@yahoo.com	Telephone:	949-701-1769
Permit/Application Number(s):		Tract/Parcel Map Number(s):	APNs 1167-231-10, 1167-231-11, and vacant lot located directly adjacent to the south		
Additional Information/ Comments:					
Description of Project:	Demolition of the existing auto repair structure and removal of existing Barton Road driveways and the southern driveway on Michigan Street (replacement with full curb, gutter, and sidewalk). Construction of a 950sf building to establish a Dutch Bros. Coffee with one drive-through window, dual queuing lanes for 29 vehicles, on-site parking for 9 vehicles, a pedestrian/walk-up window with canopy, interior and perimeter landscaping, and covered waste/recycle enclosure. Vehicular access is proposed on Michigan Street.				
Provide summary of Conceptual WQMP conditions (if previously submitted and approved). Attach complete copy.					

Section 2 Project Description

2.1 Project Information

This section of the WQMP should provide the information listed below. The information provided for Conceptual/ Preliminary WQMP should give sufficient detail to identify the major proposed site design and LID BMPs and other anticipated water quality features that impact site planning. Final Project WQMP must specifically identify all BMP incorporated into the final site design and provide other detailed information as described herein.

The purpose of this information is to help determine the applicable development category, pollutants of concern, watershed description, and long term maintenance responsibilities for the project, and any applicable water quality credits. This information will be used in conjunction with the information in Section 3, Site Description, to establish the performance criteria and to select the LID BMP or other BMP for the project or other alternative programs that the project will participate in, which are described in Section 4.

Form 2.1-1 Description of Proposed Project

1 Development Category (Select all that apply):

☒ Significant re-development involving the addition or replacement of 5,000 ft² or more of impervious surface on an already developed site	☐ New development involving the creation of 10,000 ft² or more of impervious surface collectively over entire site	☐ Automotive repair shops with standard industrial classification (SIC) codes 5013, 5014, 5541, 7532- 7534, 7536-7539	☒ Restaurants (with SIC code 5812) where the land area of development is 5,000 ft² or more
☐ Hillside developments of 5,000 ft² or more which are located on areas with known erosive soil conditions or where the natural slope is 25 percent or more	☐ Developments of 2,500 ft² of impervious surface or more adjacent to (within 200 ft) or discharging directly into environmentally sensitive areas or waterbodies listed on the CWA Section 303(d) list of impaired waters.	☐ Parking lots of 5,000 ft² or more exposed to storm water	☐ Retail gasoline outlets that are either 5,000 ft² or more, or have a projected average daily traffic of 100 or more vehicles per day

☐ Non-Priority / Non-Category Project *May require source control LID BMPs and other LIP requirements. Please consult with local jurisdiction on specific requirements*.

2 Project Area (ft2):	35,381	**3** Number of Dwelling Units:	0	**4** SIC Code:	5812

5 Is Project going to be phased? Yes ☐ No ☒ *If yes, ensure that the WQMP evaluates each phase as a distinct DA, requiring LID BMPs to address runoff at time of completion.*

6 Does Project include roads? Yes ☐ No ☒ *If yes, ensure that applicable requirements for transportation projects are addressed (see Appendix A of TGD for WQMP)*

2.2 Property Ownership/Management

Describe the ownership/management of all portions of the project and site. State whether any infrastructure will transfer to public agencies (City, County, Caltrans, etc.) after project completion. State if a homeowners or property owners association will be formed and be responsible for the long-term maintenance of project stormwater facilities. Describe any lot-level stormwater features that will be the responsibility of individual property owners.

Form 2.2-1 Property Ownership/Management

Describe property ownership/management responsible for long-term maintenance of WQMP stormwater facilities:

The Salam Yasin Living Trust is the owner of the entire subject site. The site will be developed by Dutch Bros Coffee, LLC. Upon completion of construction, the site operator will be responsible for the long-term maintenance of the WQMP stormwater facilities. To assure long-term maintenance of the facilities, a "COVENANT AND AGREEMENT REGARDING WATER QUALITY MANAGEMENT PLAN AND STORMWATER BEST MANAGEMENT PRACTICES TRANSFER, ACCESS AND MAINTENANCE" will be recorded. This document will be recorded and run with the property and will be subject to any future owners of the property.

2.3 Potential Stormwater Pollutants

Determine and describe expected stormwater pollutants of concern based on land uses and site activities (refer to Table 3-3 in the TGD for WQMP).

Form 2.3-1 Pollutants of Concern			
Pollutant	Please check: E=Expected, N=Not Expected		Additional Information and Comments
Pathogens (Bacterial / Virus)	E ☒	N ☐	
Nutrients - Phosphorous	E ☒	N ☐	Nutrients are a concern at this site due to the risk of overuse of landscaping fertilizer. This will be mitigated by utilizing non-structural source control BMPs such as prevention of selection of qualified landscaping professionals and stenciling of catch-basins.
Nutrients - Nitrogen	E ☒	N ☐	Nutrients are a concern at this site due to the risk of overuse of landscaping fertilizer. This will be mitigated by utilizing non-structural source control BMPs such as prevention of selection of qualified landscaping professionals and stenciling of catch-basins.
Noxious Aquatic Plants	E ☒	N ☐	Noxious aquatic plants are a potential threat in landscaped areas. Will be mitigated by effective drainage of landscaping through grading.
Sediment	E ☒	N ☐	
Metals	E ☒	N ☐	
Oil and Grease	E ☒	N ☐	
Trash/Debris	E ☒	N ☐	
Pesticides / Herbicides	E ☒	N ☐	
Organic Compounds	E ☒	N ☐	
Other:	E ☐	N ☐	
Other:	E ☐	N ☐	
Other:	E ☐	N ☐	
Other:	E ☐	N ☐	
Other:	E ☐	N ☐	

2.4 Water Quality Credits

A water quality credit program is applicable for certain types of development projects if it is not feasible to meet the requirements for on-site LID. Proponents for eligible projects, as described below, can apply for water quality credits that would reduce project obligations for selecting and sizing other treatment BMP or participating in other alternative compliance programs. Refer to Section 6.2 in the TGD for WQMP to determine if water quality credits are applicable for the project.

Form 2.4-1 Water Quality Credits

1 Project Types that Qualify for Water Quality Credits: *Select all that apply*			
☐ Redevelopment projects that reduce the overall impervious footprint of the project site. [Credit = % impervious reduced]	Higher density development projects ☐ Vertical density [20%] ☐ 7 units/ acre [5%]	☐ Mixed use development, (combination of residential, commercial, industrial, office, institutional, or other land uses which incorporate design principles that demonstrate environmental benefits not realized through single use projects) [20%]	☐ Brownfield redevelopment (redevelop real property complicated by presence or potential of hazardous contaminants) [25%]
☐ Redevelopment projects in established historic district, historic preservation area, or similar significant core city center areas [10%]	☐ Transit-oriented developments (mixed use residential or commercial area designed to maximize access to public transportation) [20%]	☐ In-fill projects (conversion of empty lots & other underused spaces < 5 acres, substantially surrounded by urban land uses, into more beneficially used spaces, such as residential or commercial areas) [10%]	☐ Live-Work developments (variety of developments designed to support residential and vocational needs) [20%]
2 Total Credit % *(Total all credit percentages up to a maximum allowable credit of 50 percent)*			
Description of Water Quality Credit Eligibility (if applicable)	Not Applicable		

Section 3 Site and Watershed Description

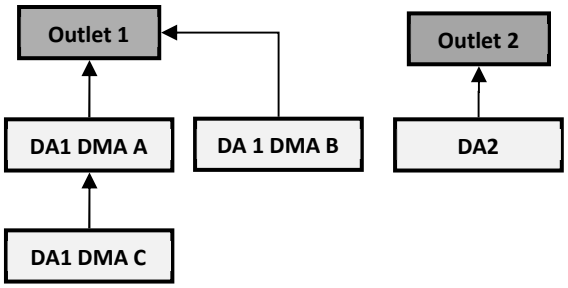
Describe the project site conditions that will facilitate the selection of BMP through an analysis of the physical conditions and limitations of the site and its receiving waters. Identify distinct drainage areas (DA) that collect flow from a portion of the site and describe how runoff from each DA (and sub-watershed DMAs) is conveyed to the site outlet(s). Refer to Section 3.2 in the TGD for WQMP. The form below is provided as an example. Then complete Forms 3.2 and 3.3 for each DA on the project site. ***If the project has more than one drainage area for stormwater management, then complete additional versions of these forms for each DA / outlet.***

Form 3-1 Site Location and Hydrologic Features

Site coordinates *take GPS measurement at approximate center of site*	Latitude 34.03350	Longitude -117.32199	Thomas Bros Map page 646

1 San Bernardino County climatic region: ☒ Valley ☐ Mountain

2 Does the site have more than one drainage area (DA): Yes☐ No☒ *If no, proceed to Form 3-2. If yes, then use this form to show a conceptual schematic describing DMAs and hydrologic feature connecting DMAs to the site outlet(s). An example is provided below that can be modified for proposed project or a drawing clearly showing DMA and flow routing may be attached*



Example only – modify for project specific WQMP using additional form

Conveyance	Briefly describe on-site drainage features to convey runoff that is not retained within a DMA
DA1 DMA C flows to DA1 DMA A	*Ex. Bioretention overflow to vegetated bioswale with 4' bottom width, 5:1 side slopes and bed slope of 0.01. Conveys runoff for 1000' through DMA 1 to existing catch basin on SE corner of property*
DA1 DMA A to Outlet 1	
DA1 DMA B to Outlet 1	
DA2 to Outlet 2	

Form 3-2 Existing Hydrologic Characteristics for Drainage Area 1

For Drainage Area 1's sub-watershed DMA, provide the following characteristics	DMA A	DMA B	DMA C	DMA D
1 DMA drainage area (ft^2)	43,731			
2 Existing site impervious area (ft^2)	17,156			
3 Antecedent moisture condition *For desert areas, use http://www.sbcounty.gov/dpw/floodcontrol/pdf/20100412_map.pdf*	AMC 2			
4 Hydrologic soil group *Refer to Watershed Mapping Tool – http://permitrack.sbcounty.gov/wap/*	C			
5 Longest flowpath length (ft)	180			
6 Longest flowpath slope (ft/ft)	0.02			
7 Current land cover type(s) *Select from Fig C-3 of Hydrology Manual (Grass – Soil C-Fair)*	79			
8 Pre-developed pervious area condition: *Based on the extent of wet season vegetated cover good >75%; Fair 50-75%; Poor <50% Attach photos of site to support rating*	Fair SEE PHOTOS IN APPENDIX B			

Form 3-2 Existing Hydrologic Characteristics for Drainage Area 1 (use only as needed for additional DMA w/in DA 1)				
For Drainage Area 1's sub-watershed DMA, provide the following characteristics	DMA E	DMA F	DMA G	DMA H
1 DMA drainage area (ft^2)				
2 Existing site impervious area (ft^2)				
3 Antecedent moisture condition *For desert areas, use http://www.sbcounty.gov/dpw/floodcontrol/pdf/20100412_map.pdf*				
4 Hydrologic soil group *Refer to Watershed Mapping Tool – http://permitrack.sbcounty.gov/wap/*				
5 Longest flowpath length (ft)				
6 Longest flowpath slope (ft/ft)				
7 Current land cover type(s) *Select from Fig C-3 of Hydrology Manual*				
8 Pre-developed pervious area condition: *Based on the extent of wet season vegetated cover good >75%; Fair 50-75%; Poor <50% Attach photos of site to support rating*				

Form 3-3 Watershed Description for Drainage Area

Receiving waters *Refer to Watershed Mapping Tool - http://permitrack.sbcounty.gov/wap/ See 'Drainage Facilities" link at this website*	Santa Ana River Reach 4, Santa Ana River Reach 3, Prado Dam, Santa Ana River Reach 2, Santa Ana River Reach 1, Pacific Ocean
Applicable TMDLs *Refer to Local Implementation Plan*	Santa Ana River Reach 3: Indicator Bacteria
303(d) listed impairments *Refer to Local Implementation Plan and Watershed Mapping Tool – http://permitrack.sbcounty.gov/wap/ and State Water Resources Control Board website – http://www.waterboards.ca.gov/santaana/water_issues/programs/tmdl/index.shtml*	Santa Ana River Reach 4: Indicator Bacteria Santa Ana River Reach 3: Metals, Indicator Bacteria
Environmentally Sensitive Areas (ESA) *Refer to Watershed Mapping Tool – http://permitrack.sbcounty.gov/wap/*	Santa Ana River Riparian/Wetland
Unlined Downstream Water Bodies *Refer to Watershed Mapping Tool – http://permitrack.sbcounty.gov/wap/*	Santa Ana River
Hydrologic Conditions of Concern	☐ Yes *Complete Hydrologic Conditions of Concern (HCOC) Assessment. Include Forms 4.2-2 through Form 4.2-5 and Hydromodification BMP Form 4.3-10 in submittal* ☒ No
Watershed–based BMP included in a RWQCB approved WAP	☐ Yes *Attach verification of regional BMP evaluation criteria in WAP* • *More Effective than On-site LID* • *Remaining Capacity for Project DCV* • *Upstream of any Water of the US* • *Operational at Project Completion* • *Long-Term Maintenance Plan* ☒ No

Section 4 Best Management Practices (BMP)

4.1 Source Control BMP

4.1.1 Pollution Prevention

Non-structural and structural source control BMP are required to be incorporated into all new development and significant redevelopment projects. Form 4.1-1 and 4.1-2 are used to describe specific source control BMPs used in the WQMP or to explain why a certain BMP is not applicable. Table 7-3 of the TGD for WQMP provides a list of applicable source control BMP for projects with specific types of potential pollutant sources or activities. The source control BMP in this table must be implemented for projects with these specific types of potential pollutant sources or activities.

The preparers of this WQMP have reviewed the source control BMP requirements for new development and significant redevelopment projects. The preparers have also reviewed the specific BMP required for project as specified in Forms 4.1-1 and 4.1-2. All applicable non-structural and structural source control BMP shall be implemented in the project.

Form 4.1-1 Non-Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
N1	Education of Property Owners, Tenants and Occupants on Stormwater BMPs	☒	☐	Owner, tenants and employees will receive educational material concerning water quality management as well as proper operations and management of BMPs. See Appendix H
N2	Activity Restrictions	☒	☐	Owner, tenants and employees will receive education about proper disposal of potential pollutants such as cleaning chemicals or grease from food preparation
N3	Landscape Management BMPs	☒	☐	Onsite landscaping will be coordinated by the site operator. Operator to contract with a reputable landscaping company with familiarity with California and specifically Grand Terrace standards, to avoid overuse of fertilizers or pesticides which could result in hazardous discharge.
N4	BMP Maintenance	☒	☐	BMP will be maintained per the provided documentation (Appendix H).
N5	Title 22 CCR Compliance (How development will comply)	☐	☒	No hazardous chemicals will be stored on-site.
N6	Local Water Quality Ordinances	☒	☐	This project will comply with the City of Grand Terrace and San Bernardino County's stormwater ordinances.
N7	Spill Contingency Plan	☐	☒	No hazardous materials stored on site
N8	Underground Storage Tank Compliance	☐	☒	No underground storage tank on site
N9	Hazardous Materials Disclosure Compliance	☐	☒	No hazardous materials stored on site

Form 4.1-1 Non-Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
N10	Uniform Fire Code Implementation	☒	☐	This project will receive fire department approval and inspection to ensure applicable codes are implemented
N11	Litter/Debris Control Program	☒	☐	Site will be inspected regularly by employees to keep litter and debris from accumulating. Trash enclosure will be enclosed and have a roof
N12	Employee Training	☒	☐	Employees will be provided with the documentation shown in Appendix H
N13	Housekeeping of Loading Docks	☐	☒	No loading dock to be constructed at this project.
N14	Catch Basin Inspection Program	☒	☐	Catch basins to be inspected monthly and before and after every storm.
N15	Vacuum Sweeping of Private Streets and Parking Lots	☒	☐	Parking lot to be swept once monthly to prevent sediment, garden waste, trash and pollutants from entering stormwater management system.
N16	Other Non-structural Measures for Public Agency Projects	☐	☒	This is not a public agency project.
N17	Comply with all other applicable NPDES permits	☒	☐	This project will be constructed under all applicable Grand Terrace and San Bernardino County standards.

Form 4.1-2 Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, If not applicable, state reason
		Included	Not Applicable	
S1	Provide storm drain system stencilling and signage (CASQA New Development BMP Handbook SD-13)	☒	☐	All catch basins and drop inlets will include stenciling or signage to read "No Dumping Drains to River". Lettering shall comply to City of Grand Terrace standards.
S2	Design and construct outdoor material storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-34)	☐	☒	There are no outdoor material storage areas proposed.
S3	Design and construct trash and waste storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-32)	☒	☐	Trash enclosure will have a roof and also be enclosed and locked. Trash enclosure area will be designed to divert storm flows away from trash area, and will have a concrete slab to prevent infiltration. Dumpster lids to be closed at all times.
S4	Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control (Statewide Model Landscape Ordinance; CASQA New Development BMP Handbook SD-12)	☒	☐	Landscaping and irrigation to be designed by a California licensed Landscape Architect to City of Grand Terrace Standards, Statewide Model Landscape Ordinance, and CASQA New Development BMP Handbook SD-12
S5	Finish grade of landscaped areas at a minimum of 1-2 inches below top of curb, sidewalk, or pavement	☒	☐	A note to this effect will be included on the grading drawings.
S6	Protect slopes and channels and provide energy dissipation (CASQA New Development BMP Handbook SD-10)	☒	☐	Site will be designed to maintain existing contours as much as is practicable. Impervious areas have been minimized. Slopes to be landscaped to CASQA New Development BMP Handbook SD-10, with an emphasis on slowing runoff.
S7	Covered dock areas (CASQA New Development BMP Handbook SD-31)	☐	☒	No dock areas are proposed at this site.
S8	Covered maintenance bays with spill containment plans (CASQA New Development BMP Handbook SD-31)	☐	☒	No maintenance bays are proposed at this site.
S9	Vehicle wash areas with spill containment plans (CASQA New Development BMP Handbook SD-33)	☐	☒	No vehicle wash areas are proposed at this site.

S10	Covered outdoor processing areas (CASQA New Development BMP Handbook SD-36)	☐	☒	No outdoor processing areas are proposed.

Form 4.1-2 Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, If not applicable, state reason
		Included	Not Applicable	
S11	Equipment wash areas with spill containment plans (CASQA New Development BMP Handbook SD-33)	☐	☒	No equipment wash areas are proposed at this site.
S12	Fueling areas (CASQA New Development BMP Handbook SD-30)	☐	☒	No fueling areas are proposed at this site.
S13	Hillside landscaping (CASQA New Development BMP Handbook SD-10)	☐	☒	This is not a hillside development project.
S14	Wash water control for food preparation areas	☒	☐	Interiors floors to slope to floor drains to prevent risk of pollutant infiltration.
S15	Community car wash racks (CASQA New Development BMP Handbook SD-33)	☐	☒	No car washing areas are proposed at this site.

4.1.2 Preventative LID Site Design Practices

Site design practices associated with new LID requirements in the MS4 Permit should be considered in the earliest phases of a project. Preventative site design practices can result in smaller DCV for LID BMP and hydromodification control BMP by reducing runoff generation. Describe site design and drainage plan including:

- A narrative of site design practices utilized or rationale for not using practices
- A narrative of how site plan incorporates preventive site design practices
- Include an attached Site Plan layout which shows how preventative site design practices are included in WQMP

Refer to Section 5.2 of the TGD for WQMP for more details.

Form 4.1-3 Preventative LID Site Design Practices Checklist

Site Design Practices *If yes, explain how preventative site design practice is addressed in project site plan. If no, other LID BMPs must be selected to meet targets*
Minimize impervious areas: Yes ☒ No ☐ **Explanation: Pervious surface area was maximized where possible and landscaping designed to minimize off-site run-off. The proposed site is nearly 50% pervious surface.**
Maximize natural infiltration capacity: Yes ☐ No ☒ **Explanation: The infiltration rate for this site is 0.16 in/hr (without factor of safety) so infiltration is not feasible. See Geotechnical drawings (Appendix D)**
Preserve existing drainage patterns and time of concentration: Yes ☒ No ☐ **Explanation: Existing drainage patterns have been changed only as required route stormwater runoff to the modular wetlands system on site before discharging to the city storm drain.**
Disconnect impervious areas: Yes ☒ No ☐ **Explanation: Runoff from proposed site's impervious surfaces is directed to catchbasins and then to the modular wetlands system.**
Protect existing vegetation and sensitive areas: Yes ☒ No ☐ **Explanation: Existing vegetation is being protected where possible or replaced with new planting more suitable for the area.**
Re-vegetate disturbed areas: Yes ☒ No ☐ **Explanation: Disturbed areas will be re-vegetated wherever possible.**
Minimize unnecessary compaction in stormwater retention/infiltration basin/trench areas: Yes ☐ No ☒ **Explanation: No retention areas on site.**
Utilize vegetated drainage swales in place of underground piping or imperviously lined swales: Yes ☒ No ☐ **Explanation: Vegetated drainage swales are utilized where feasible in lieu of underground piping to route building downspout runoff to catchbasins and then to the modular wetlands system.**
Stake off areas that will be used for landscaping to minimize compaction during construction : Yes ☒ No ☐ **Explanation: During site preparation work, including compaction, areas to be used for landscaping will be staked off.**

4.2 Project Performance Criteria

The purpose of this section of the Project WQMP is to establish targets for post-development hydrology based on performance criteria specified in the MS4 Permit. These targets include runoff volume for water quality control (referred to as LID design capture volume), and runoff volume, time of concentration, and peak runoff for protection of any downstream waterbody segments with a HCOC. ***If the project has more than one outlet for stormwater runoff, then complete additional versions of these forms for each DA / outlet.***

Methods applied in the following forms include:

- For LID BMP Design Capture Volume (DCV), the San Bernardino County Stormwater Program requires use of the P_6 method (MS4 Permit Section XI.D.6a.ii) – Form 4.2-1
- For HCOC pre- and post-development hydrologic calculation, the San Bernardino County Stormwater Program requires the use of the Rational Method (San Bernardino County Hydrology Manual Section D). Forms 4.2-2 through Form 4.2-5 calculate hydrologic variables including runoff volume, time of concentration, and peak runoff from the project site pre- and post-development using the Hydrology Manual Rational Method approach. For projects greater than 640 acres (1.0 mi^2), the Rational Method and these forms should not be used. For such projects, the Unit Hydrograph Method (San Bernardino County Hydrology Manual Section E) shall be applied for hydrologic calculations for HCOC performance criteria.

Refer to Section 4 in the TGD for WQMP for detailed guidance and instructions.

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume (DA 1)

1 Project area DA 1 (ft^2):	**2** Imperviousness after applying preventative site design practices (Imp%):	**3** Runoff Coefficient (Rc): _ *$R_c = 0.858(Imp\%)^3-0.78(Imp\%)^2+0.774(Imp\%)+0.04$*
4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr-1hr}$ (in): *http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html*		
5 Compute P_6, Mean 6-hr Precipitation (inches): *P_6 = Item 4 *C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*		
6 Drawdown Rate *Use 48 hours as the default condition. Selection and use of the 24 hour drawdown time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.*		24-hrs ☐ 48-hrs ☐
7 Compute design capture volume, DCV (ft^3): *DCV = 1/12 * [Item 1* Item 3 *Item 5 * C_2], where C_2 is a function of drawdown rate (24-hr = 1.582; 48-hr = 1.963)* *Compute separate DCV for each outlet from the project site per schematic drawn in Form 3-1 Item 2*		

Form 4.2-2 Summary of HCOC Assessment (DA 1)

Does project have the potential to cause or contribute to an HCOC in a downstream channel: Yes ☐ No ☒

Go to: *http://permitrack.sbcounty.gov/wap/.*

If "Yes", then complete HCOC assessment of site hydrology for 2yr storm event using Forms 4.2-3 through 4.2-5 and insert results below

(Forms 4.2-3 through 4.2-5 may be replaced by computer software analysis based on the San Bernardino County Hydrology Manual)

If "No," then proceed to Section 4.3 Project Conformance Analysis

Condition	Runoff Volume (ft^3)	Time of Concentration (min)	Peak Runoff (cfs)
Pre-developed	**1** *Form 4.2-3 Item 12*	**2** *Form 4.2-4 Item 13*	**3** *Form 4.2-5 Item 10*
Post-developed	**4** *Form 4.2-3 Item 13*	**5** *Form 4.2-4 Item 14*	**6** *Form 4.2-5 Item 14*
Difference	**7** *Item 4 – Item 1*	**8** *Item 2 – Item 5*	**9** *Item 6 – Item 3*
Difference (as % of pre-developed)	**10** % *Item 7 / Item 1*	**11** % *Item 8 / Item 2*	**12** % *Item 9 / Item 3*

Form 4.2-3 HCOC Assessment for Runoff Volume (DA 1)

Weighted Curve Number Determination for: Pre-developed DA	DMA A	DMA B	DMA C	DMA D	DMA E	DMA F	DMA G	DMA H
1a Land Cover type								
2a Hydrologic Soil Group (HSG)								
3a DMA Area, ft^2 *sum of areas of DMA should equal area of DA*								
4a Curve Number (CN) *use Items 1 and 2 to select the appropriate CN from Appendix C-2 of the TGD for WQMP*								
Weighted Curve Number Determination for: Post-developed DA	DMA A	DMA B	DMA C	DMA D	DMA E	DMA F	DMA G	DMA H
1b Land Cover type								
2b Hydrologic Soil Group (HSG)								
3b DMA Area, ft^2 *sum of areas of DMA should equal area of DA*								
4b Curve Number (CN) *use Items 5 and 6 to select the appropriate CN from Appendix C-2 of the TGD for WQMP*								

5 Pre-Developed area-weighted CN:	**7** Pre-developed soil storage capacity, S (in): *S = (1000 / Item 5) - 10*	**9** Initial abstraction, I_a (in): *I_a = 0.2 * Item 7*
6 Post-Developed area-weighted CN:	**8** Post-developed soil storage capacity, S (in): *S = (1000 / Item 6) - 10*	**10** Initial abstraction, I_a (in): *I_a = 0.2 * Item 8*

11 Precipitation for 2 yr, 24 hr storm (in):
Go to: http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

12 Pre-developed Volume (ft^3):
*V_{pre} =(1 / 12) * (Item sum of Item 3) * [(Item 11 – Item 9)^2 / ((Item 11 – Item 9 + Item 7)*

13 Post-developed Volume (ft^3):
*V_{pre} =(1 / 12) * (Item sum of Item 3) * [(Item 11 – Item 10)^2 / ((Item 11 – Item 10 + Item 8)*

14 Volume Reduction needed to meet HCOC Requirement, (ft^3):
*V_{HCOC} = (Item 13 * 0.95) – Item 12*

Form 4.2-4 HCOC Assessment for Time of Concentration (DA 1)

Compute time of concentration for pre and post developed conditions for each DA *(For projects using the Hydrology Manual complete the form below)*

Variables	Pre-developed DA1 *Use additional forms if there are more than 4 DMA*				Post-developed DA1 *Use additional forms if there are more than 4 DMA*			
	DMA A	DMA B	DMA C	DMA D	DMA A	DMA B	DMA C	DMA D
1 Length of flowpath (ft) *Use Form 3-2 Item 5 for pre-developed condition*								
2 Change in elevation (ft)								
3 Slope (ft/ft), S_o *= Item 2 / Item 1*								
4 Land cover								
5 Initial DMA Time of Concentration (min) *Appendix C-1 of the TGD for WQMP*								
6 Length of conveyance from DMA outlet to project site outlet (ft) *May be zero if DMA outlet is at project site outlet*								
7 Cross-sectional area of channel (ft^2)								
8 Wetted perimeter of channel (ft)								
9 Manning's roughness of channel (n)								
10 Channel flow velocity (ft/sec) V_{fps} *= (1.49 / Item 9) * (Item 7/Item 8)^0.67 * (Item 3)^0.5*								
11 Travel time to outlet (min) T_t *= Item 6 / (Item 10 * 60)*								
12 Total time of concentration (min) T_c *= Item 5 + Item 11*								
13 Pre-developed time of concentration (min): *Minimum of Item 12 pre-developed DMA*								
14 Post-developed time of concentration (min): *Minimum of Item 12 post-developed DMA*								
15 Additional time of concentration needed to meet HCOC requirement (min): $T_{C\text{-}HCOC}$ *= (Item 13 * 0.95) – Item 14*								

Form 4.2-5 HCOC Assessment for Peak Runoff (DA 1)

Compute peak runoff for pre- and post-developed conditions

Variables		Pre-developed DA to Project Outlet (*Use additional forms if more than 3 DMA)*			Post-developed DA to Project Outlet (*Use additional forms if more than 3 DMA)*		
		DMA A	DMA B	DMA C	DMA A	DMA B	DMA C
1 Rainfall Intensity for storm duration equal to time of concentration *I_{peak} = 10^(LOG Form 4.2-1 Item 4 - 0.6 LOG Form 4.2-4 Item 5 /60)*							
2 Drainage Area of each DMA (Acres) *For DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*							
3 Ratio of pervious area to total area *For DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*							
4 Pervious area infiltration rate (in/hr) *Use pervious area CN and antecedent moisture condition with Appendix C-3 of the TGD for WQMP*							
5 Maximum loss rate (in/hr) *F_m = Item 3 * Item 4* *Use area-weighted F_m from DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*							
6 Peak Flow from DMA (cfs) *Q_p =Item 2 * 0.9 * (Item 1 - Item 5)*							
7 Time of concentration adjustment factor for other DMA to site discharge point *Form 4.2-4 Item 12 DMA / Other DMA upstream of site discharge point (If ratio is greater than 1.0, then use maximum value of 1.0)*	DMA A	*n/a*			*n/a*		
	DMA B		*n/a*			*n/a*	
	DMA C			*n/a*			*n/a*

8 Pre-developed Q_p at T_c for DMA A: *Q_p = Item 6_{DMAA} + [Item 6_{DMAB} * (Item 1_{DMAA} - Item 5_{DMAB})/(Item 1_{DMAB} - Item 5_{DMAB})* Item $7_{DMAA/2}$] + [Item 6_{DMAC} * (Item 1_{DMAA} - Item 5_{DMAC})/(Item 1_{DMAC} - Item 5_{DMAC})* Item $7_{DMAA/3}$]*	**9** Pre-developed Q_p at T_c for DMA B: *Q_p = Item 6_{DMAB} + [Item 6_{DMAA} * (Item 1_{DMAB} - Item 5_{DMAA})/(Item 1_{DMAA} - Item 5_{DMAA})* Item $7_{DMAB/1}$] + [Item 6_{DMAC} * (Item 1_{DMAB} - Item 5_{DMAC})/(Item 1_{DMAC} - Item 5_{DMAC})* Item $7_{DMAB/3}$]*	**10** Pre-developed Q_p at T_c for DMA C: *Q_p = Item 6_{DMAC} + [Item 6_{DMAA} * (Item 1_{DMAC} - Item 5_{DMAA})/(Item 1_{DMAA} - Item 5_{DMAA})* Item $7_{DMAC/1}$] + [Item 6_{DMAB} * (Item 1_{DMAC} - Item 5_{DMAB})/(Item 1_{DMAB} - Item 5_{DMAB})* Item $7_{DMAC/2}$]*
10 Peak runoff from pre-developed condition confluence analysis (cfs):	*Maximum of Item 8, 9, and 10 (including additional forms as needed)*	
11 Post-developed Q_p at T_c for DMA A: *Same as Item 8 for post-developed values*	**12** Post-developed Q_p at T_c for DMA B: *Same as Item 9 for post-developed values*	**13** Post-developed Q_p at T_c for DMA C: *Same as Item 10 for post-developed values*
14 Peak runoff from post-developed condition confluence analysis (cfs):	*Maximum of Item 11, 12, and 13 (including additional forms as needed)*	
15 Peak runoff reduction needed to meet HCOC Requirement (cfs):	$Q_{p\text{-}HCOC}$ = *(Item 14 * 0.95) – Item 10*	

4.3 Project Conformance Analysis

Complete the following forms for each project site DA to document that the proposed LID BMPs conform to the project DCV developed to meet performance criteria specified in the MS4 Permit (WQMP Template Section 4.2). For the LID DCV, the forms are ordered according to hierarchy of BMP selection as required by the MS4 Permit (see Section 5.3.1 in the TGD for WQMP). The forms compute the following for on-site LID BMP:

- Site Design and Hydrologic Source Controls (Form 4.3-2)
- Retention and Infiltration (Form 4.3-3)
- Harvested and Use (Form 4.3-4) or
- Biotreatment (Form 4.3-5).

At the end of each form, additional fields facilitate the determination of the extent of mitigation provided by the specific BMP category, allowing for use of the next category of BMP in the hierarchy, if necessary.

The first step in the analysis, using Section 5.3.2.1 of the TGD for WQMP, is to complete Forms 4.3-1 and 4.3-3) to determine if retention and infiltration BMPs are infeasible for the project. For each feasibility criterion in Form 4.3-1, if the answer is "Yes," provide all study findings that includes relevant calculations, maps, data sources, etc. used to make the determination of infeasibility.

Next, complete Forms 4.3-2 and 4.3-4 to determine the feasibility of applicable HSC and harvest and use BMPs, and, if their implementation is feasible, the extent of mitigation of the DCV.

If no site constraints exist that would limit the type of BMP to be implemented in a DA, evaluate the use of combinations of LID BMPs, including all applicable HSC BMPs to maximize on-site retention of the DCV. If no combination of BMP can mitigate the entire DCV, implement the single BMP type, or combination of BMP types, that maximizes on-site retention of the DCV within the minimum effective area.

If the combination of LID HSC, retention and infiltration, and harvest and use BMPs are unable to mitigate the entire DCV, then biotreatment BMPs may be implemented by the project proponent. If biotreatment BMPs are used, then they must be sized to provide sufficient capacity for effective treatment of the remainder of the volume-based performance criteria that cannot be achieved with LID BMPs (TGD for WQMP Section 5.4.4.2). **Under no circumstances shall any portion of the DCV be released from the site without effective mitigation and/or treatment**.

Form 4.3-1 Infiltration BMP Feasibility (DA 1)

Feasibility Criterion – Complete evaluation for each DA on the Project Site

[1] Would infiltration BMP pose significant risk for groundwater related concerns? Yes ☐ No ☒
Refer to Section 5.3.2.1 of the TGD for WQMP

If Yes, Provide basis: (attach)

[2] Would installation of infiltration BMP significantly increase the risk of geotechnical hazards? Yes ☐ No ☒
(Yes, if the answer to any of the following questions is yes, as established by a geotechnical expert):

- The location is less than 50 feet away from slopes steeper than 15 percent
- The location is less than eight feet from building foundations or an alternative setback.
- A study certified by a geotechnical professional or an available watershed study determines that stormwater infiltration would result in significantly increased risks of geotechnical hazards.

If Yes, Provide basis: (attach)

[3] Would infiltration of runoff on a Project site violate downstream water rights? Yes ☐ No ☒

If Yes, Provide basis: (attach)

[4] Is proposed infiltration facility located on hydrologic soil group (HSG) D soils or does the site geotechnical investigation indicate presence of soil characteristics, which support categorization as D soils? Yes ☐ No ☒

If Yes, Provide basis: (attach)

[5] Is the design infiltration rate, after accounting for safety factor of 2.0, below proposed facility less than 0.3 in/hr (accounting for soil amendments)? Yes ☒ No ☐

If Yes, Provide basis: (attach) **SEE GEOTECHNICAL REPORT, APPENDIX D**

[6] Would on-site infiltration or reduction of runoff over pre-developed conditions be partially or fully inconsistent with watershed management strategies as defined in the WAP, or impair beneficial uses? Yes ☐ No ☒
See Section 3.5 of the TGD for WQMP and WAP

If Yes, Provide basis: (attach)

[7] Any answer from Item 1 through Item 3 is "Yes": Yes ☐ No ☒
If yes, infiltration of any volume is not feasible onsite. Proceed to Form 4.3-4, Harvest and Use BMP. If no, then proceed to Item 8 below.

[8] Any answer from Item 4 through Item 6 is "Yes": Yes ☒ No ☐
If yes, infiltration is permissible but is not required to be considered. Proceed to Form 4.3-2, Hydrologic Source Control BMP.
If no, then proceed to Item 9, below.

[9] All answers to Item 1 through Item 6 are "No":
Infiltration of the full DCV is potentially feasible, LID infiltration BMP must be designed to infiltrate the full DCV to the MEP.
Proceed to Form 4.3-2, Hydrologic Source Control BMP.

4.3.1 Site Design Hydrologic Source Control BMP

Section XI.E. of the Permit emphasizes the use of LID preventative measures; and the use of LID HSC BMPs reduces the portion of the DCV that must be addressed in downstream BMPs. Therefore, all applicable HSC shall be provided except where they are mutually exclusive with each other, or with other BMPs. Mutual exclusivity may result from overlapping BMP footprints such that either would be potentially feasible by itself, but both could not be implemented. Please note that while there are no numeric standards regarding the use of HSC, if a project cannot feasibly meet BMP sizing requirements or cannot fully address HCOCs, feasibility of all applicable HSC must be part of demonstrating that the BMP system has been designed to retain the maximum feasible portion of the DCV. Complete Form 4.3-2 to identify and calculate estimated retention volume from implementing site design HSC BMP. Refer to Section 5.4.1 in the TGD for more detailed guidance.

Form 4.3-2 Site Design Hydrologic Source Control BMPs (DA 1)

1 Implementation of Impervious Area Dispersion BMP (i.e. routing runoff from impervious to pervious areas), excluding impervious areas planned for routing to on-lot infiltration BMP: Yes ☐ No ☒ *If yes, complete Items 2-5; If no, proceed to Item 6*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
2 Total impervious area draining to pervious area (ft^2)			
3 Ratio of pervious area receiving runoff to impervious area			
4 Retention volume achieved from impervious area dispersion (ft^3) *V = Item2 * Item 3 * (0.5/12), assuming retention of 0.5 inches of runoff*			
5 Sum of retention volume achieved from impervious area dispersion (ft^3):		$V_{retention}$ *=Sum of Item 4 for all BMPs*	
6 Implementation of Localized On-lot Infiltration BMPs (e.g. on-lot rain gardens): Yes ☐ No ☒ *If yes, complete Items 7-13 for aggregate of all on-lot infiltration BMP in each DA; If no, proceed to Item 14*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
7 Ponding surface area (ft^2)			
8 Ponding depth (ft)			
9 Surface area of amended soil/gravel (ft^2)			
10 Average depth of amended soil/gravel (ft)			
11 Average porosity of amended soil/gravel			
12 Retention volume achieved from on-lot infiltration (ft^3) $V_{retention}$ *= (Item 7 *Item 8) + (Item 9 * Item 10 * Item 11)*			
13 Runoff volume retention from on-lot infiltration (ft^3):		$V_{retention}$ *=Sum of Item 12 for all BMPs*	

Form 4.3-2 Site Design Hydrologic Source Control BMPs (DA 1)

Form 4.3-2 cont. Site Design Hydrologic Source Control BMPs (DA 1)

14 Implementation of evapotranspiration BMP (green, brown, or blue roofs): Yes ☐ No ☒ *If yes, complete Items 15-20. If no, proceed to Item 21*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
15 Rooftop area planned for ET BMP (ft^2)			
16 Average wet season ET demand (in/day) *Use local values, typical ~ 0.1*			
17 Daily ET demand (ft^3/day) *Item 15 * (Item 16 / 12)*			
18 Drawdown time (hrs) *Copy Item 6 in Form 4.2-1*			
19 Retention Volume (ft^3) $V_{retention}$ *= Item 17 * (Item 18 / 24)*			
20 Runoff volume retention from evapotranspiration BMPs (ft^3):	$V_{retention}$ *=Sum of Item 19 for all BMPs*		
21 Implementation of Street Trees: Yes ☐ No ☒ *If yes, complete Items 22-25. If no, proceed to Item 26*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
22 Number of Street Trees			
23 Average canopy cover over impervious area (ft^2)			
24 Runoff volume retention from street trees (ft^3) $V_{retention}$ *= Item 22 * Item 23 * (0.05/12) assume runoff retention of 0.05 inches*			
25 Runoff volume retention from street tree BMPs (ft^3):	$V_{retention}$ *= Sum of Item 24 for all BMPs*		
26 Implementation of residential rain barrel/cisterns: Yes ☐ No ☒ *If yes, complete Items 27-29; If no, proceed to Item 30*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
27 Number of rain barrels/cisterns			
28 Runoff volume retention from rain barrels/cisterns (ft^3) $V_{retention}$ *= Item 27 * 3*			
29 Runoff volume retention from residential rain barrels/Cisterns (ft3):	$V_{retention}$ *=Sum of Item 28 for all BMPs*		
30 Total Retention Volume from Site Design Hydrologic Source Control BMPs:	*Sum of Items 5, 13, 20, 25 and 29*		

4.3.2 Infiltration BMPs

Use Form 4.3-3 to compute on-site retention of runoff from proposed retention and infiltration BMPs. Volume retention estimates are sensitive to the percolation rate used, which determines the amount of runoff that can be infiltrated within the specified drawdown time. The infiltration safety factor reduces field measured percolation to account for potential inaccuracy associated with field measurements, declining BMP performance over time, and compaction during construction. Appendix D of the TGD for WQMP provides guidance on estimating an appropriate safety factor to use in Form 4.3-3.

If site constraints limit the use of BMPs to a single type and implementation of retention and infiltration BMPs mitigate no more than 40% of the DCV, then they are considered infeasible and the Project Proponent may evaluate the effectiveness of BMPs lower in the LID hierarchy of use (Section 5.5.1 of the TGD for WQMP)

If implementation of infiltrations BMPs is feasible as determined using Form 4.3-1, then LID infiltration BMPs shall be implemented to the MEP (section 4.1 of the TGD for WQMP).

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Form 4.3-3 Infiltration LID BMP - including underground BMPs (DA 1)

1 Remaining LID DCV not met by site design HSC BMP (ft^3): 1,233 *V_{unmet} = Form 4.2-1 Item 7 - Form 4.3-2 Item 30*			
BMP Type *Use columns to the right to compute runoff volume retention from proposed infiltration BMP (select BMP from Table 5-4 in TGD for WQMP) - Use additional forms for more BMPs*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
2 Infiltration rate of underlying soils (in/hr) *See Section 5.4.2 and Appendix D of the TGD for WQMP for minimum requirements for assessment methods*			
3 Infiltration safety factor *See TGD Section 5.4.2 and Appendix D*			
4 Design percolation rate (in/hr) *P_{design} = Item 2 / Item 3*			
5 Ponded water drawdown time (hr) *Copy Item 6 in Form 4.2-1*			
6 Maximum ponding depth (ft) *BMP specific, see Table 5-4 of the TGD for WQMP for BMP design details*			
7 Ponding Depth (ft) *d_{BMP} = Minimum of (1/12*Item 4*Item 5) or Item 6*			
8 Infiltrating surface area, SA_{BMP} (ft^2) *the lesser of the area needed for infiltration of full DCV or minimum space requirements from Table 5.7 of the TGD for WQMP*			
9 Amended soil depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 in the TGD for WQMP for reference to BMP design details*			
10 Amended soil porosity			
11 Gravel depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 of the TGD for WQMP for BMP design details*			
12 Gravel porosity			
13 Duration of storm as basin is filling (hrs) *Typical ~ 3hrs*			
14 Above Ground Retention Volume (ft^3) *$V_{retention}$ = Item 8 * [Item7 + (Item 9 * Item 10) + (Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*			
15 Underground Retention Volume (ft^3) *Volume determined using manufacturer's specifications and calculations*			
16 Total Retention Volume from LID Infiltration BMPs: 0 *(Sum of Items 14 and 15 for all infiltration BMP included in plan)*			
17 Fraction of DCV achieved with infiltration BMP: 0% *Retention% = Item 16 / Form 4.2-1 Item 7*			
18 Is full LID DCV retained onsite with combination of hydrologic source control and LID retention/infiltration BMPs? Yes ☐ No ☒ *If yes, demonstrate conformance using Form 4.3-10; If no, then reduce Item 3, Factor of Safety to 2.0 and increase Item 8, Infiltrating Surface Area, such that the portion of the site area used for retention and infiltration BMPs equals or exceeds the minimum effective area thresholds (Table 5-7 of the TGD for WQMP) for the applicable category of development and repeat all above calculations.*			

4.3.3 Harvest and Use BMP

Harvest and use BMP may be considered if the full LID DCV cannot be met by maximizing infiltration BMPs. Use Form 4.3-4 to compute on-site retention of runoff from proposed harvest and use BMPs.

Volume retention estimates for harvest and use BMPs are sensitive to the on-site demand for captured stormwater. Since irrigation water demand is low in the wet season, when most rainfall events occur in San Bernardino County, the volume of water that can be used within a specified drawdown period is relatively low. The bottom portion of Form 4.3-4 facilitates the necessary computations to show infeasibility if a minimum incremental benefit of 40 percent of the LID DCV would not be achievable with MEP implementation of on-site harvest and use of stormwater (Section 5.5.4 of the TGD for WQMP).

Form 4.3-4 Harvest and Use BMPs (DA 1)

1 Remaining LID DCV not met by site design HSC or infiltration BMP (ft^3): *V_{unmet} = Form 4.2-1 Item 7 - Form 4.3-2 Item 30 – Form 4.3-3 Item 16*			
BMP Type(s) *Compute runoff volume retention from proposed harvest and use BMP (Select BMPs from Table 5-4 of the TGD for WQMP) - Use additional forms for more BMPs*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
2 Describe cistern or runoff detention facility			
3 Storage volume for proposed detention type (ft^3) *Volume of cistern*			
4 Landscaped area planned for use of harvested stormwater (ft^2)			
5 Average wet season daily irrigation demand (in/day) Use local values, typical ~ 0.1 in/day			
6 Daily water demand (ft^3/day) *Item 4 * (Item 5 / 12)*			
7 Drawdown time (hrs) *Copy Item 6 from Form 4.2-1*			
8 Retention Volume (ft^3) *$V_{retention}$ = Minimum of (Item 3) or (Item 6 * (Item 7 / 24))*			
9 Total Retention Volume (ft^3) from Harvest and Use BMP0 *Sum of Item 8 for all harvest and use BMP included in plan*			
10 Is the full DCV retained with a combination of LID HSC, retention and infiltration, and harvest & use BMPs? Yes ☐ No ☒ *If yes, demonstrate conformance using Form 4.3-10. If no, then re-evaluate combinations of all LID BMP and optimize their implementation such that the maximum portion of the DCV is retained on-site (using a single BMP type or combination of BMP types). If the full DCV cannot be mitigated after this optimization process, proceed to Section 4.3.4.*			

4.3.4 Biotreatment BMP

Biotreatment BMPs may be considered if the full LID DCV cannot be met by maximizing retention and infiltration, and harvest and use BMPs. A key consideration when using biotreatment BMP is the effectiveness of the proposed BMP in addressing the pollutants of concern for the project (see Table 5-5 of the TGD for WQMP).

Use Form 4.3-5 to summarize the potential for volume based and/or flow based biotreatment options to biotreat the remaining unmet LID DCV w. Biotreatment computations are included as follows:

- Use Form 4.3-6 to compute biotreatment in small volume based biotreatment BMP (e.g. bioretention w/underdrains);
- Use Form 4.3-7 to compute biotreatment in large volume based biotreatment BMP (e.g. constructed wetlands);
- Use Form 4.3-8 to compute sizing criteria for flow-based biotreatment BMP (e.g. bioswales)

Form 4.3-5 Selection and Evaluation of Biotreatment BMP (DA 1)

1 Remaining LID DCV not met by site design HSC, infiltration, or harvest and use BMP for potential biotreatment (ft^3): *Form 4.2-1 Item 7 - Form 4.3-2 Item 30 – Form 4.3-3 Item 16- Form 4.3-4 Item 9*	List pollutants of concern *Copy from Form 2.3-1.*	
2 Biotreatment BMP Selected *(Select biotreatment BMP(s) necessary to ensure all pollutants of concern are addressed through Unit Operations and Processes, described in Table 5-5 of the TGD for WQMP)*	Volume-based biotreatment *Use Forms 4.3-6 and 4.3-7 to compute treated volume*	Flow-based biotreatment *Use Form 4.3-8 to compute treated volume*
	☐ Bioretention with underdrain ☐ Planter box with underdrain ☐ Constructed wetlands ☐ Wet extended detention ☐ Dry extended detention	☐ Vegetated swale ☐ Vegetated filter strip ☐ Proprietary biotreatment
3 Volume biotreated in volume based biotreatment BMP (ft^3): *Form 4.3-6 Item 15 + Form 4.3-7 Item 13*	**4** Compute remaining LID DCV with implementation of volume based biotreatment BMP (ft^3): *Item 1 – Item 3*	**5** Remaining fraction of LID DCV for sizing flow based biotreatment BMP: % *Item 4 / Item 1*
6 Flow-based biotreatment BMP capacity provided (cfs): 0 *Use Figure 5-2 of the TGD for WQMP to determine flow capacity required to provide biotreatment of remaining percentage of unmet LID DCV (Item 5), for the project's precipitation zone (Form 3-1 Item 1)*		
7 Metrics for MEP determination: • Provided a WQMP with the portion of site area used for suite of LID BMP equal to minimum thresholds in Table 5-7 of the TGD for WQMP for the proposed category of development: ☐ *If maximized on-site retention BMPs is feasible for partial capture, then LID BMP implementation must be optimized to retain and infiltrate the maximum portion of the DCV possible within the prescribed minimum effective area. The remaining portion of the DCV shall then be mitigated using biotreatment BMP.*		

Form 4.3-6 Volume Based Biotreatment (DA 1) – Bioretention and Planter Boxes with Underdrains

Biotreatment BMP Type *(Bioretention w/underdrain, planter box w/underdrain, other comparable BMP)*	DA 1 DMA 1 BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
1 Pollutants addressed with BMP *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in Table 5-5 of the TGD for WQMP*			
2 Amended soil infiltration rate *Typical ~ 5.0*			
3 Amended soil infiltration safety factor *Typical ~ 2.0*			
4 Amended soil design percolation rate (in/hr) P_{design} *= Item 2 / Item 3*			
5 Ponded water drawdown time (hr) *Copy Item 6 from Form 4.2-1*			
6 Maximum ponding depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
7 Ponding Depth (ft) d_{BMP} *= Minimum of (1/12 * Item 4 * Item 5) or Item 6*			
8 Amended soil surface area (ft^2)			
9 Amended soil depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
10 Amended soil porosity, *n*			
11 Gravel depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
12 Gravel porosity, *n*			
13 Duration of storm as basin is filling (hrs) *Typical ~ 3hrs*			
14 Biotreated Volume (ft^3) $V_{biotreated}$ *= Item 8 * [(Item 7/2) + (Item 9 * Item 10) +(Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*			
15 Total biotreated volume from bioretention and/or planter box with underdrains BMP: *Sum of Item 14 for all volume-based BMPs included in this form*			

Form 4.3-7 Volume Based Biotreatment (DA 1) – Constructed Wetlands and Extended Detention

Biotreatment BMP Type *Constructed wetlands, extended wet detention, extended dry detention, or other comparable proprietary BMP. If BMP includes multiple modules (e.g. forebay and main basin), provide separate estimates for storage and pollutants treated in each module.*	DA DMA BMP Type		DA DMA BMP Type *(Use additional forms for more BMPs)*	
	Forebay	Basin	Forebay	Basin
1 Pollutants addressed with BMP forebay and basin *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in Table 5-5 of the TGD for WQMP*				
2 Bottom width (ft)				
3 Bottom length (ft)				
4 Bottom area (ft^2) A_{bottom} = *Item 2 * Item 3*				
5 Side slope (ft/ft)				
6 Depth of storage (ft)				
7 Water surface area (ft^2) $A_{surface}$ =*(Item 2 + (2 * Item 5 * Item 6)) * (Item 3 + (2 * Item 5 * Item 6))*				
8 Storage volume (ft^3) *For BMP with a forebay, ensure fraction of total storage is within ranges specified in BMP specific fact sheets, see Table 5-6 of the TGD for WQMP for reference to BMP design details* V =*Item 6 / 3 * [Item 4 + Item 7 + (Item 4 * Item 7)^0.5]*				
9 Drawdown Time (hrs) *Copy Item 6 from Form 2.1*				
10 Outflow rate (cfs) Q_{BMP} = *(Item* $8_{forebay}$ *+ Item* 8_{basin}*) / (Item 9 * 3600)*				
11 Duration of design storm event (hrs)				
12 Biotreated Volume (ft^3) $V_{biotreated}$ = *(Item* $8_{forebay}$ *+ Item* 8_{basin}*) +(Item 10 * Item 11 * 3600)*				
13 Total biotreated volume from constructed wetlands, extended dry detention, or extended wet detention : *(Sum of Item 12 for all BMP included in plan)*				

Form 4.3-8 Flow Based Biotreatment (DA 1)

Biotreatment BMP Type *Vegetated swale, vegetated filter strip, or other comparable proprietary BMP*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
1 Pollutants addressed with BMP *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in TGD Table 5-5*	Pathogens, Metals, Nutrients, Organic Compounds, Pesticides, Herbices, Sediements, Trash, Oil and Grease		
2 Flow depth for water quality treatment (ft) *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*	Modular Wetlands will be used thus sizing calculations not performed. See section 4-4 for design narrative		
3 Bed slope (ft/ft) *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
4 Manning's roughness coefficient			
5 Bottom width (ft) b_w *= (Form 4.3-5 Item 6 * Item 4) / (1.49 * Item 2^1.67 * Item 3^0.5)*			
6 Side Slope (ft/ft) *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
7 Cross sectional area (ft^2) *A = (Item 5 * Item 2) + (Item 6 * Item 2^2)*			
8 Water quality flow velocity (ft/sec) *V = Form 4.3-5 Item 6 / Item 7*			
9 Hydraulic residence time (min) *Pollutant specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
10 Length of flow based BMP (ft) *L = Item 8 * Item 9 * 60*			
11 Water surface area at water quality flow depth (ft^2)			

SA_{top} = (Item 5 + (2 * Item 2 * Item 6)) * Item 10			

4.3.5 Conformance Summary

Complete Form 4.3-9 to demonstrate how on-site LID DCV is met with proposed site design hydrologic source control, infiltration, harvest and use, and/or biotreatment BMP. The bottom line of the form is used to describe the basis for infeasibility determination for on-site LID BMP to achieve full LID DCV, and provides methods for computing remaining volume to be addressed in an alternative compliance plan. If the project has more than one outlet, then complete additional versions of this form for each outlet.

Form 4.3-9 Conformance Summary and Alternative Compliance Volume Estimate (DA 1)

1 Total LID DCV for the Project DA-1 (ft^3): *Copy Item 7 in Form 4.2-1*

2 On-site retention with site design hydrologic source control LID BMP (ft^3): 0 *Copy Item 30 in Form 4.3-2*

3 On-site retention with LID infiltration BMP (ft^3): 0 *Copy Item 16 in Form 4.3-3*

4 On-site retention with LID harvest and use BMP (ft^3): 0 *Copy Item 9 in Form 4.3-4*

5 On-site biotreatment with volume based biotreatment BMP (ft^3): 0 *Copy Item 3 in Form 4.3-5* ***(VALUE FROM 4.3-6)***

6 Flow capacity provided by flow based biotreatment BMP (cfs): 0.073 *Copy Item 6 in Form 4.3-5 ee Section 4-4*

7 LID BMP performance criteria are achieved if answer to any of the following is "Yes":

- Full retention of LID DCV with site design HSC, infiltration, or harvest and use BMP: Yes ☐ No ☒
  If yes, sum of Items 2, 3, and 4 is greater than Item 1
- Combination of on-site retention BMPs for a portion of the LID DCV and volume-based biotreatment BMP that address all pollutants of concern for the remaining LID DCV: Yes ☐ No ☒
  If yes, a) sum of Items 2, 3, 4, and 5 is greater than Item 1, and Items 2, 3 and 4 are maximized; or b) Item 6 is greater than Form 4.3--5 Item 6 and Items 2, 3 and 4 are maximized
- On-site retention and infiltration is determined to be infeasible and biotreatment BMP provide biotreatment for all pollutants of concern for full LID DCV: Yes ☐ No ☒
  If yes, Form 4.3-1 Items 7 and 8 were both checked yes

8 If the LID DCV is not achieved by any of these means, then the project may be allowed to develop an alternative compliance plan. Check box that describes the scenario which caused the need for alternative compliance:

- Combination of HSC, retention and infiltration, harvest and use, and biotreatment BMPs provide less than full LID DCV capture: ☒
  Checked yes for Form 4.3-5 Item 7, Item 6 is zero, and sum of Items 2, 3, 4, and 5 is less than Item 1. If so, apply water quality credits and calculate volume for alternative compliance, V_{alt} *= (Item 1 – Item 2 – Item 3 – Item 4 – Item 5) * (100 - Form 2.4-1 Item 2)%*
- An approved Watershed Action Plan (WAP) demonstrates that water quality and hydrologic impacts of urbanization are more effective when managed in at an off-site facility: ☐
  Attach appropriate WAP section, including technical documentation, showing effectiveness comparisons for the project site and regional watershed

4.3.6 Hydromodification Control BMP

Use Form 4.3-10 to compute the remaining runoff volume retention, after LID BMP are implemented, needed to address HCOC, and the increase in time of concentration and decrease in peak runoff necessary to meet targets for protection of waterbodies with a potential HCOC. Describe hydromodification control BMP that address HCOC, which may include off-site BMP and/or in-stream controls. Section 5.6 of the TGD for WQMP provides additional details on selection and evaluation of hydromodification control BMP.

Form 4.3-10 Hydromodification Control BMPs (DA 1)

1 Volume reduction needed for HCOC performance criteria (ft^3): *(Form 4.2-2 Item 4 * 0.95) – Form 4.2-2 Item 1*	**2** On-site retention with site design hydrologic source control, infiltration, and harvest and use LID BMP (ft^3): *Sum of Form 4.3-9 Items 2, 3, and 4 Evaluate option to increase implementation of on-site retention in Forms 4.3-2, 4.3-3, and 4.3-4 in excess of LID DCV toward achieving HCOC volume reduction*
3 Remaining volume for HCOC volume capture (ft^3): *Item 1 – Item 2*	**4** Volume capture provided by incorporating additional on-site or off-site retention BMPs (ft^3): *Existing downstream BMP may be used to demonstrate additional volume capture (if so, attach to this WQMP a hydrologic analysis showing how the additional volume would be retained during a 2-yr storm event for the regional watershed)*

5 If Item 4 is less than Item 3, incorporate in-stream controls on downstream waterbody segment to prevent impacts due to hydromodification ☐ *Attach in-stream control BMP selection and evaluation to this WQMP*

6 Is Form 4.2-2 Item 11 less than or equal to 5%: Yes ☐ No ☐

If yes, HCOC performance criteria is achieved. If no, select one or more mitigation options below:

- Demonstrate increase in time of concentration achieved by proposed LID site design, LID BMP, and additional on-site or off-site retention BMP ☐
  BMP upstream of a waterbody segment with a potential HCOC may be used to demonstrate increased time of concentration through hydrograph attenuation (if so, show that the hydraulic residence time provided in BMP for a 2-year storm event is equal or greater than the addition time of concentration requirement in Form 4.2-4 Item 15)
- Increase time of concentration by preserving pre-developed flow path and/or increase travel time by reducing slope and increasing cross-sectional area and roughness for proposed on-site conveyance facilities ☐
- Incorporate appropriate in-stream controls for downstream waterbody segment to prevent impacts due to hydromodification, in a plan approved and signed by a licensed engineer in the State of California ☐

7 Form 4.2-2 Item 12 less than or equal to 5%: Yes ☐ No ☐

If yes, HCOC performance criteria is achieved. If no, select one or more mitigation options below:

- Demonstrate reduction in peak runoff achieved by proposed LID site design, LID BMPs, and additional on-site or off-site retention BMPs ☐
  BMPs upstream of a waterbody segment with a potential HCOC may be used to demonstrate additional peak runoff reduction through hydrograph attenuation (if so, attach to this WQMP, a hydrograph analysis showing how the peak runoff would be reduced during a 2-yr storm event)
- Incorporate appropriate in-stream controls for downstream waterbody segment to prevent impacts due to hydromodification, in a plan approved and signed by a licensed engineer in the State of California ☐

4.4 Alternative Compliance Plan (if applicable)

Describe an alternative compliance plan (if applicable) for projects not fully able to infiltrate, harvest and use, or biotreat the DCV via on-site LID practices. A project proponent must develop an alternative compliance plan to address the remainder of the LID DCV. Depending on project type some projects may qualify for water quality credits that can be applied to reduce the DCV that must be treated prior to development of an alternative compliance plan (see Form 2.4-1, Water Quality Credits). Form 4.3-9 Item 8 includes instructions on how to apply water quality credits when computing the DCV that must be met through alternative compliance. Alternative compliance plans may include one or more of the following elements:

- On-site structural treatment control BMP - All treatment control BMP should be located as close to possible to the pollutant sources and should not be located within receiving waters;
- Off-site structural treatment control BMP - Pollutant removal should occur prior to discharge of runoff to receiving waters;
- Urban runoff fund or In-lieu program, if available

Depending upon the proposed alternative compliance plan, approval by the executive officer may or may not be required (see Section 6 of the TGD for WQMP).

Modular Wetlands System Design Narrative

Traditional methods of treatment were found to be infeasible for this site due to several factors. Infiltration is not feasible due to a measured infiltration rate of 0.16 in/hr (see Geotechnical Report- Appendix D). Traditional bioretention is not feasible due to horizontal and vertical site constraints. As a result, the proposed method of compliance will be a Contech Modular Wetlands System (MWS) utilized for flow-based treatment. This facility has a small footprint and thus can be placed at the north end of the site in a drive aisle, allowing treated flow to gravity drain to the Barton Storm Drain.

Demand flow rate was obtained utilizing the methodology outlined in the San Bernardino County Stormwater Program Technical Guidance Document for Water Quality Management Plans. Design calculations and Modular Wetlands manufacturer product data are included in Appendices F and G, respectively. Stormwater runoff will be routed to catch-basins throughout the proposed site. The catchbasins will route runoff through the MWS which will provide flow-based treatment and then discharge the treated runoff to the Barton Storm Drain.

The Contech Modular Wetlands system has been approved by multiple stringent evaluation organizations including the California Water Resources Control Board and the Washington State Department of Ecology. See Appendix I for Washington State TAPE approval documentation.

Section 5 Inspection and Maintenance Responsibility for Post Construction BMP

All BMP included as part of the project WQMP are required to be maintained through regular scheduled inspection and maintenance (refer to Section 8, Post Construction BMP Requirements, in the TGD for WQMP). Fully complete Form 5-1 summarizing all BMP included in the WQMP. Attach additional forms as needed. The WQMP shall also include a detailed Operation and Maintenance Plan for all BMP and may require a Maintenance Agreement (consult the jurisdiction's LIP). If a Maintenance Agreement is required, it must also be attached to the WQMP.

Form 5-1 BMP Inspection and Maintenance (use additional forms as necessary)

BMP	Reponsible Party(s)	Inspection/ Maintenance Activities Required	Minimum Frequency of Activities
Modular Wetlands	Dutch Bros Coffee	Remove Trash from Screening Device	2/year
Catch Basin	Dutch Bros Coffee	Inspect and remove sediment and debris buildup every month and before and after storm event to ensure catch basins drain to design standards	12/year
Modular Wetlands	Dutch Bros Coffee	Remove Sediment from Separation Chamber	1/year
Modular Wetlands	Dutch Bros Coffee	Replace Cartridge Filter Media	1/year
Modular Wetlands	Dutch Bros Coffee	Replace Drain Down Filter Media	1/year

Section 6 WQMP Attachments

6.1. Site Plan and Drainage Plan

Include a site plan and drainage plan sheet set containing the following minimum information:

Site plan included in Appendix E along with preliminary grading plan. Drainage Plan will be provided with Final WQMP.

- Project location
- Site boundary
- Land uses and land covers, as applicable
- Suitability/feasibility constraints
- Structural Source Control BMP locations
- Site Design Hydrologic Source Control BMP locations
- LID BMP details
- Drainage delineations and flow information
- Drainage connections

6.2 Electronic Data Submittal

Minimum requirements include submittal of PDF exhibits in addition to hard copies. Format must not require specialized software to open. If the local jurisdiction requires specialized electronic document formats (as described in their local Local Implementation Plan), this section will describe the contents (e.g., layering, nomenclature, geo-referencing, etc.) of these documents so that they may be interpreted efficiently and accurately.

6.3 Post Construction

Attach all O&M Plans and Maintenance Agreements for BMP to the WQMP.

This documentation will be provided with the final WQMP.

6.4 Other Supporting Documentation

- BMP Educational Materials- **Included as Appendix H**
- Activity Restriction – C, C&R's & Lease Agreements

APPENDIX A: SITE ALTA SURVEY

TITLE REPORT EASEMENT EXCEPTIONS

1. WATER RIGHTS, CLAIMS OR TITLE TO WATER, WHETHER OR NOT DISCLOSED BY THE PUBLIC RECORDS.

** 2. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT:
PURPOSE: DITCHES, PIPES AND FLUMES
RECORDING DATE: MARCH 11, 1890
RECORDING NO: IN BOOK 110, PAGE 339, DEEDS

THE EXACT LOCATION AND EXTENT OF SAID EASEMENT IS NOT DISCLOSED OF RECORD.

* 3. COVENANTS, CONDITIONS AND RESTRICTIONS BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, GENDER, GENDER IDENTITY, GENDER EXPRESSION, SEXUAL ORIENTATION, MARITAL STATUS, NATIONAL ORIGIN, ANCESTRY, FAMILIAL STATUS, SOURCE OF INCOME, DISABILITY, VETERAN OR MILITARY STATUS, GENETIC INFORMATION, MEDICAL CONDITION, CITIZENSHIP, PRIMARY LANGUAGE, AND IMMIGRATION STATUS, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH IN THE DOCUMENT RECORDING DATE: FEBRUARY 25, 1974
RECORDING NO: IN BOOK 8375, PAGE 633, OFFICIAL RECORDS

* 4. A DEED OF TRUST TO SECURE AN INDEBTEDNESS IN THE AMOUNT SHOWN BELOW,
AMOUNT: $315,000.00
DATED: MARCH 30, 2004
TRUSTOR/GRANTOR ALI M. YASIN AND SALAM A. YASIN, HUSBAND AND WIFE, AS JOINT TENANTS
TRUSTEE: FIDELITY NATIONAL TITLE
BENEFICIARY: RONALD F. WHITE AND BETTY A. WHITE, TRUSTEES OF THE WHITE FAMILY TRUST,
ESTABLISHED JULY 10, 1996
RECORDING DATE: JUNE 7, 2004
RECORDING NO: AS INSTRUMENT NO. 2004-0399497, OFFICIAL RECORDS
THIS COMPANY WILL REQUIRE THAT THE ORIGINAL NOTE, THE ORIGINAL DEED OF TRUST AND A PROPERLY EXECUTED REQUEST FOR FULL RECONVEYANCE TOGETHER WITH APPROPRIATE DOCUMENTATION (I.E., COPY OF TRUST, PARTNERSHIP AGREEMENT OR CORPORATE RESOLUTION) BE IN THIS OFFICE PRIOR TO THE CLOSE OF THIS TRANSACTION IF THE ABOVE-MENTIONED ITEM IS TO BE PAID THROUGH THIS TRANSACTION OR DELETED FROM A POLICY OF TITLE INSURANCE.
ANY DEMANDS SUBMITTED TO US FOR PAYOFF MUST BE SIGNED BY ALL BENEFICIARIES AS SHOWN ON SAID DEED OF TRUST, AND/OR ANY ASSIGNMENTS THERETO. IN THE EVENT SAID DEMAND IS SUBMITTED BY AN AGENT OF THE BENEFICIARY(S), WE WILL REQUIRE THE WRITTEN APPROVAL OF THE DEMAND BY THE BENEFICIARY(S). SERVICING AGREEMENTS DO NOT CONSTITUTE APPROVAL FOR THE PURPOSES OF THIS REQUIREMENT.
IF NO AMOUNTS REMAIN DUE UNDER THE OBLIGATION A ZERO BALANCE DEMAND WILL BE REQUIRED ALONG WITH THE RECONVEYANCE DOCUMENTS.
IN ADDITION, WE REQUIRE THE WRITTEN APPROVAL OF SAID DEMAND BY THE TRUSTOR(S) ON SAID DEED OF TRUST OR THE CURRENT OWNERS IF APPLICABLE.

* 5. ANY RIGHTS OF THE PARTIES IN POSSESSION OF A PORTION OF, OR ALL OF, SAID LAND, WHICH RIGHTS ARE NOT DISCLOSED BY THE PUBLIC RECORDS.
THE COMPANY WILL REQUIRE, FOR REVIEW, A FULL AND COMPLETE COPY OF ANY UNRECORDED AGREEMENT, CONTRACT, LICENSE AND/OR LEASE, TOGETHER WITH ALL SUPPLEMENTS, ASSIGNMENTS AND AMENDMENTS THERETO, BEFORE ISSUING ANY POLICY OF TITLE INSURANCE WITHOUT EXCEPTING THIS ITEM FROM COVERAGE.
THE COMPANY RESERVES THE RIGHT TO EXCEPT ADDITIONAL ITEMS AND/OR MAKE ADDITIONAL REQUIREMENTS AFTER REVIEWING SAID DOCUMENTS.

* 6. DISCREPANCIES, CONFLICTS IN BOUNDARY LINES, SHORTAGE IN AREA, ENCROACHMENTS, OR ANY OTHER MATTERS WHICH A CORRECT SURVEY WOULD DISCLOSE AND WHICH ARE NOT SHOWN BY THE PUBLIC RECORDS.

* 7. ANY EASEMENTS NOT DISCLOSED BY THE PUBLIC RECORDS AS TO MATTERS AFFECTING TITLE TO REAL PROPERTY, WHETHER OR NOT SAID EASEMENTS ARE VISIBLE AND APPARENT.

* 8. MATTERS WHICH MAY BE DISCLOSED BY AN INSPECTION AND/OR BY A CORRECT ALTA/NSPS LAND TITLE SURVEY OF SAID LAND THAT IS SATISFACTORY TO THE COMPANY, AND/OR BY INQUIRY OF THE PARTIES IN POSSESSION THEREOF.

* 9. THE EFFECT OF A DEED AS SET FORTH BELOW:
GRANTOR: MAMOUD ALI YASIN
GRANTEE: SALAM A. YASIN
DATED: JULY 19, 2020
RECORDING DATE: APRIL 22, 2021
RECORDING NO.: 2021-0107461, OF OFFICIAL RECORDS

THE COMPANY REQUIRES THAT AN AFFIDAVIT (ATTACHED) BE COMPLETED AND EXECUTED BY THE ABOVE GRANTOR AND
THAT SAID AFFIDAVIT BE ACKNOWLEDGED BEFORE A NOTARY WHO IS AN EMPLOYEE OF THE TITLE OR ESCROW COMPANY
AND THEN SUBMITTED TO THE TITLE OFFICER FOR REVIEW.
THE COMPANY FURTHER REQUIRES A STATEMENT OF INFORMATION FROM THE ABOVE GRANTORS IN ORDER TO COMPLETE
THIS REPORT, BASED ON THE EFFECT OF DOCUMENTS, PROCEEDINGS, LIENS, DECREES, OR OTHER MATTERS WHICH DO NOT SPECIFICALLY DESCRIBE SAID LAND, BUT WHICH IF ANY DO EXIST, MAY AFFECT THE TITLE OR IMPOSE LIENS OR ENCUMBRANCES THEREON.

* 10. THE EFFECT OF A DEED AS SET FORTH BELOW:
GRANTOR: SALAM A. YASIN
GRANTEE: SALAM YASIN, AS TRUSTEE OF THE SALAM YASIN LIVING TRUST DATED JULY 12, 2020
DATED: JULY 20, 2020
RECORDING DATE: APRIL 22, 2021
RECORDING NO.: 2021-0107462, OF OFFICIAL RECORDS

TITLE REPORT NOTES:

THE SURVEY, EASEMENTS, LEGAL DESCRIPTIONS, AND OTHER RIGHTS AND LIABILITIES SHOWN HEREON ARE BASED UPON A PRELIMINARY TITLE REPORT PREPARED BY CHICAGO TITLE INSURANCE COMPANY ORDER 00139227-987-OC1-K27 DATED JULY 2, 2021.

NOTE: NOT ALL EXCEPTIONS PER SAID TITLE REPORT ARE LISTED HEREON (SEE SAID REPORT FOR COMPLETE LIST). THE FOLLOWING SYMBOLS SHALL APPLY FOR THE TITLE REPORT EXCEPTIONS SHOWN HEREON.

(*) THE LOCATION OF THIS TITLE REPORT EXCEPTION IS SHOWN ON THIS MAP.

* THIS TITLE REPORT EXCEPTION AFFECTS THE SUBJECT PROPERTY, IS BLANKET IN NATURE, AND IS NON-PLOTTABLE.

** NON-PLOTTABLE EXCEPTION. THE EXACT LOCATION CANNOT BE DETERMINED FROM THE RECORD INFORMATION.

*** THIS TITLE REPORT EXCEPTION DOES NOT AFFECT THIS PROPERTY.

FLOOD ZONE

THE FLOOD ZONE DESIGNATION FOR THE SUBJECT PROPERTY IS FLOOD ZONE X. DESCRIBED AS "AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN" PER FEMA MAP 06071C PANEL 8607J.

UTILITIES

THE LOCATION OF ANY UNDERGROUND FACILITIES SHOWN HEREON ARE BASED UPON A FIELD SURVEY AND INFORMATION PROVIDED BY OTHERS. ALL EXISTING UTILITIES THAT MAY AFFECT THE PROPERTY MAY NOT BE SHOWN ON THIS MAP, THOUGH DILIGENT EFFORT HAS BEEN MADE TO OBTAIN UTILITY INFORMATION AT THE TIME OF PREPARING THIS MAP. THE EXACT LOCATION AND DEPTH OF THE FACILITIES SHOWN HEREON WOULD HAVE TO BE DETERMINED BY EACH UTILITY COMPANY AND MUST BE FIELD VERIFIED DURING CONSTRUCTION.

NOTES

1 THE LAND AREA OF SUBJECT PROPERTY AS SHOWN HEREON IS 0.324 ACRES (NET) AND IS BASED UPON OUR MEASURED BOUNDARY.

2 THE BUILDING HEIGHTS SHOWN HEREON ARE BASED ON ELEVATIONS MEASURED FROM FINISHED FLOOR TO HIGHEST POINT OF ROOF.

3 THERE IS NO OBSERVABLE EVIDENCE OF EARTHMOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS WITHIN RECENT MONTHS.

4 THERE HAVE BEEN RECENT CHANGES TO THE STREET RIGHT OF WAY LINES AS SHOWN ON CALTRANS R.O.W. MAP NO. 78706-04 MICHIGAN STREET IS NO LONGER A THROUGH STREET FROM BARTON ROAD.

LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF GRAND TERRACE, IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

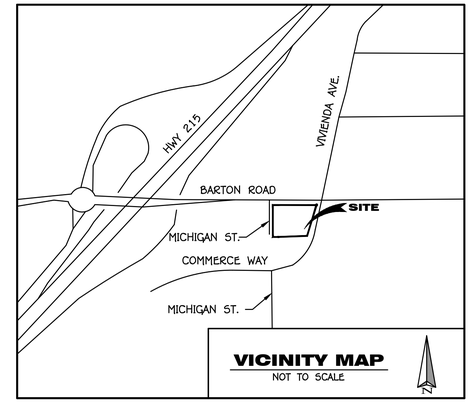
THAT PORTION OF LOT 4, IN SECTION 5, TOWNSHIP 2 SOUTH, RANGE 4 WEST, SAN BERNARDINO MERIDIAN, ACCORDING TO MAP SHOWING LANDS OF EAST RIVERSIDE LAND COMPANY, IN THE COUNTY OF SAN BERNARDINO. STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 6, PAGE 44 OF MAPS IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE SOUTHERLY LINE OF BARTON ROAD, (66 FEET WIDE), FORMERLY PALM AVENUE, AND THE EASTERLY LINE OF MICHIGAN AVENUE (66 FEET WIDE), AS SHOWN IN BOOK 19, PAGE 4 OF RECORD OF SURVEYS, RECORDED ON OCTOBER 3, 1961 IN THE OFFICE OF THE COUNTY RECORDER OF SAID SAN BERNARDINO COUNTY; THENCE SOUTH 00° 01' 14" EAST, ALONG SAID EASTERLY LINE OF MICHIGAN AVENUE, 142.00 FEET; THENCE NORTH 89° 50' 33" EAST, PARALLEL WITH SAID SOUTHERLY LINE OF BARTON ROAD 150.00 FEET; THENCE NORTH 0° 01' 14" WEST, PARALLEL WITH SAID LINE OF MICHIGAN AVENUE, 142.00 FEET TO SAID SOUTHERLY LINE OF BARTON ROAD; THENCE SOUTH 89° 50' 33" WEST, ALONG SAID SOUTHERLY LINE OF BARTON ROAD, 150.00 FEET TO THE POINT OF BEGINNING.

EXCEPT THAT PORTION CONVEYED TO THE COUNTY OF SAN BERNARDINO, BY DEED RECORDED APRIL 28, 1965 IN BOOK 6380, PAGE 315, OFFICIAL RECORDS, DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE SOUTHERLY LINE OF BARTON ROAD, 60.00 FEET WIDE, (FORMERLY PALM AVENUE) AND THE EASTERLY LINE OF MICHIGAN STREET, 66.00 FEET WIDE, AS SHOWN ON MAP RECORDED IN BOOK 19, PAGE 4 RECORD OF SURVEYS ON FILE IN THE OFFICE OF THE COUNTY RECORDER; THENCE NORTH 89° 50' 33" EAST ALONG SAID SOUTHERLY LINE OF BARTON ROAD A DISTANCE OF 150.00 FEET; THENCE SOUTH 0° 01' 14" EAST ALONG A LINE PARALLEL WITH THE CENTER LINE OF SAID MICHIGAN STREET, A DISTANCE OF 17.00 FEET TO AN INTERSECTION WITH A LINE THAT IS PARALLEL WITH, AND DISTANT 50.00 FEET SOUTH OF THE CENTER LINE OF SAID BARTON ROAD; THENCE SOUTH 89° 50' 33" WEST ALONG SAID PARALLEL, LINE A DISTANCE OF 130.05 FEET TO THE BEGINNING OF A TANGENT CURVE CONCAVE TO THE SOUTHEAST, HAVING A RADIUS OF 20.00 FEET; THENCE SOUTHWESTERLY ALONG SAID TANGENT CURVE, THROUGH AN ANGLE OF 89° 51' 47" A DISTANCE OF 31.37 FEET TO A POINT OF TANGENCY WITH THE EAST LINE OF SAID MICHIGAN STREET; THENCE NORTH 0° 01' 14" WEST ALONG SAID EASE LINE OF MICHIGAN STREET, A DISTANCE OF 36.95 FEET TO THE POINT OF BEGINNING.

EXCEPTING THEREFROM THAT PORTION AS CONVEYED TO THE CITY OF GRAND TERRACE BY DEED RECORDED SEPTEMBER 4, 1986 AS INSTRUMENT NO. 86-255660 OFFICIAL RECORDS.
APN: 1167-231-11



VICINITY MAP
NOT TO SCALE

BASIS OF BEARINGS

THE BEARING OF N89°25'30"E OF THE CENTERLINE OF BARTON ROAD, AS SHOWN ON PARCEL MAP "NO.19345" FILED IN BOOK 239 OF PARCEL MAPS AT PAGE 01, COUNTY OF SAN BERNARDINO RECORDS.

BENCHMARK

CITY OF COLTON STANDARD 2" BRASS DISC SET IN THE BASE OF A CONCRETE TRAFFIC SIGNAL STANDARD ON BARTON ROAD AT THE NORTHWEST CORNER OF THE INTERSECTION OF BARTON ROAD AND MT. VERNON AVENUE.

ELEVATION= 1059.15'

PARKING

HANDICAPPED SPACES	1
FULL SIZE SPACES	4
TOTAL SPACES	5

SURVEYOR'S STATEMENT

TO CHICAGO TITLE INSURANCE COMPANY; BB HOLDINGS CA, LLC, AN OREGON LIMITED LIABILITY COMPANY; DB FRANCHISING USA, LLC, AN OREGON LIMITED LIABILITY COMPANY; DUTCH BROS., LLC, AN OREGON LIMITED LIABILITY COMPANY; DUTCH MAFIA, LLC, AN OREGON LIMITED LIABILITY COMPANY; BOERSMA BROS. LLC, AN OREGON LIMITED LIABILITY COMPANY:

THIS IS TO CERTIFY* THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 2, 3, 4, 5, 7(A), 7(B1), 7(C), 8, 9, 11, 13, 16, 17 AND 18 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON 04/01/2022.

*USE OF THE WORD "CERTIFY" OR "CERTIFICATION" IS IN ACCORDANCE WITH THE DEFINITION IN SECTION 8770.6 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA (PROFESSIONAL LAND SURVEYORS' ACT).

DIRK J. DE VALK PLS 8139

DATE

PROFESSIONAL LAND SURVEYOR
DIRK J. DE VALK
NO. 8139
STATE OF CALIFORNIA

PRELIMINARY COPY

SUBJECT TO CHANGE

REV. NO.	DESCRIPTION	ENGR. INT:	CITY ACCEPTANCE BY	CITY ACCEPTANCE DATE

DESIGNED N/A | DRAWN FS | CHECKED BY DDV | SCALE HORIZ. 1"=20' VERT. N/A

BENCHMARK INFORMATION
ELEVATION: 1059.15' DATUM:
DESCRIPTION:

BURRELL CONSULTING GROUP, INC.
1001 Enterprise Way, Suite 100 Roseville, CA. 95678 (916) 783-8898

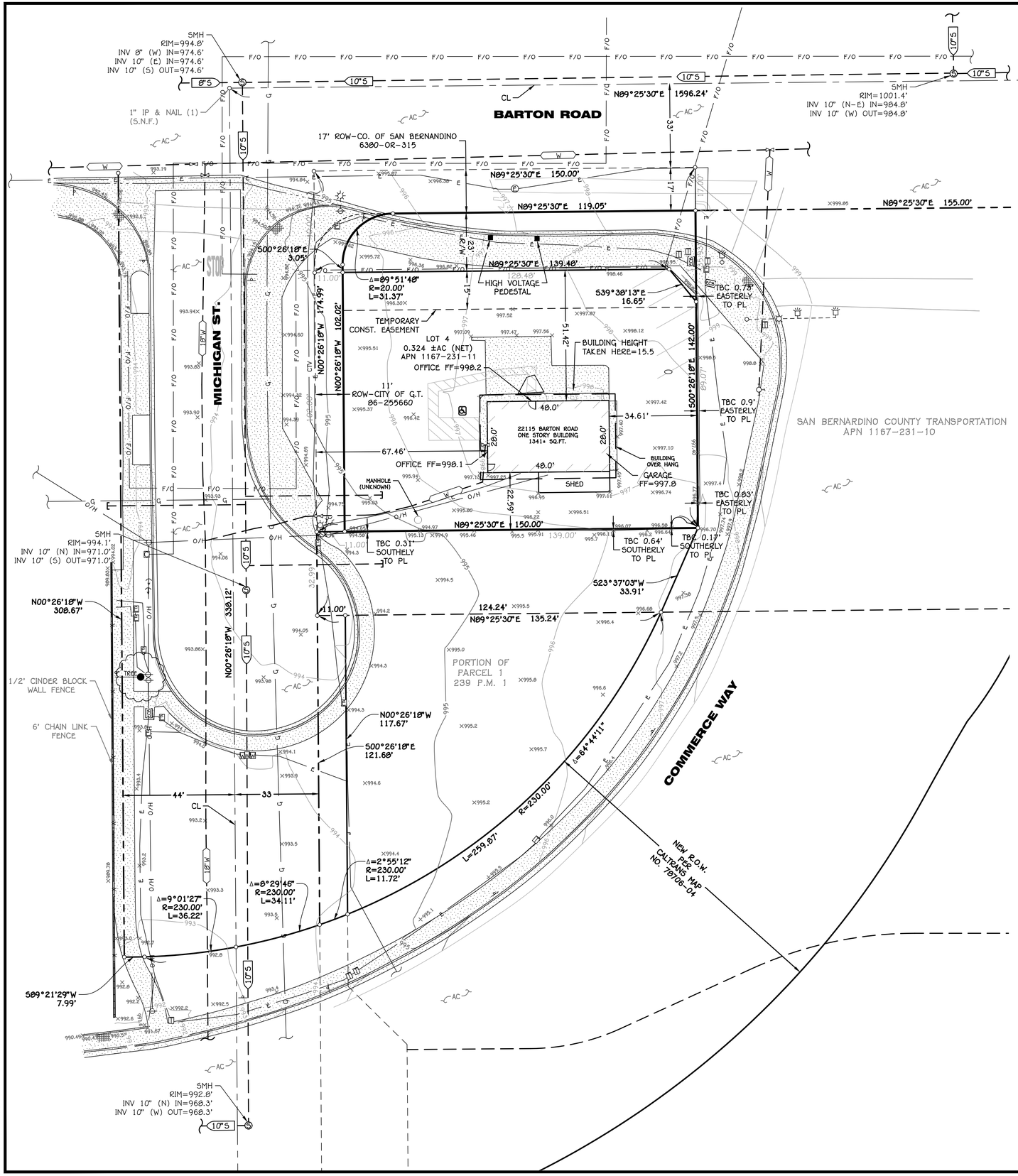
NSPS/ALTA LAND TITLE SURVEY FOR:
DUTCH BROS
22115 BARTON Rd.
APN 1167-231-11
CITY OF GRAND TERRACE CALIFORNIA

SHEET 1 OF 2 SHEETS

JOB NO. 2510-00-1385

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BURRELL CONSULTING GROUP, INC. (BURRELL) HEREBY EXPRESSLY RESERVES ITS COMMON LAW COPYRIGHTS AND OTHER PROPERTY RIGHTS IN THESE DRAWINGS AND SPECIFICATIONS. THESE DRAWINGS AND SPECIFICATIONS ARE NOT TO BE USED BY THE OWNER OR ANY OTHER PERSON OR ENTITY FOR ANY PURPOSE OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED, NOR ARE THEY TO BE CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PERSON, WITHOUT FIRST OBTAINING THE EXPRESS PERMISSION AND CONSENT OF BURRELL BY AN AGREEMENT IN WRITING AND WITH APPROPRIATE RELUE FILE COMPENSATION BEING PAID TO BURRELL.



LEGEND

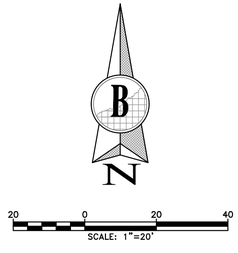
SANITARY SEWER	6" S
STORM DRAIN	12" D
WATER MAIN	8" W
CENTERLINE	
ELECTRICAL LINE	E
GAS LINE	G
FIBER OPTIC	F/O
OVERHEAD POWER LINE	O/H
WALL	
SEWER MANHOLE	
STREET LIGHT	
DRAIN INLET	
CLEANOUT	
FIRE HYDRANT	
WATER VALVE	
WATER METER	
YARD LIGHT	
TRAFFIC LIGHT	
TRAFFIC SIGNAL PULLBOX	
ELECTRIC CABINET	
ELECTRIC PULLBOX	
POWER POLE	
POLE GUY	
SIGN	
ELECTRIC MANHOLE	
SIDEWALK, CURB AND GUTTER	
SPOT ELEVATION	X 266.5
TREE	
HANDICAPPED DOME	
PER 239 P.M. 01	(1)

ABBREVIATIONS

AC	ASPHALT CONCRETE
APN	ASSESSOR PARCEL NUMBER
BNDY	BOUNDARY
C&G	CURB & GUTTER
CL	CENTERLINE
CONC	CONCRETE
ESMT	EASEMENT
FF	FINISHED FLOOR
GM	GAS METER
IP	IRON PIPE
MH	MANHOLE
N.T.S.	NOT TO SCALE
O.R.	OFFICIAL RECORDS
P.U.E.	PUBLIC UTILITY EASEMENT
P.M.	PARCEL MAP
R.O.W.	RIGHT OF WAY
SMH	SEWER MANHOLE
S.N.F.	SEARCH NOT FOUND
(M)	MEASURED

MONUMENTS

DIMENSION POINT	○
FOUND MONUMENT WELL AS NOTED	✕
FOUND MONUMENT AS NOTED	✕



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DESIGNED N/A | DRAWN FS | CHECKED BY DDV | SCALE HORIZ. 1"=20' VERT. N/A

ENGR. INIT.	CITY ACCEPTANCE BY	DATE	DESCRIPTION	REV. NO.

BENCHMARK INFORMATION
ELEVATION: DATUM:
DESCRIPTION:

BURRELL CONSULTING GROUP, INC.
1001 Enterprise Way, Suite 100 Roseville, CA 95678 (916) 783-8898

NSPS/ALTA LAND TITLE SURVEY FOR:

DUTCH BROS
22115 BARTON Rd.
APN 1167-231-11

CITY OF GRAND TERRACE CALIFORNIA

SHEET 2 OF 2 SHEETS

JOB NO. 2510-00-1365

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APPENDIX B: SITE PHOTOS



Commerce Way Looking towards the corner of Commerce and Barton Rd.



Corner of Commerce Way and Barton Rd. Looking to the southwest



Commerce Way and Barton Rd. Looking to the southwest



Commerce Way and Barton Rd. Looking to the west



Michigan St. and Barton Road looking to the south



Michigan St. and Barton Road looking to the south



Commerce Way near south property line looking to the northeast



Commerce Way south of property looking to the northeast



Commerce Way at south corner property looking to the north

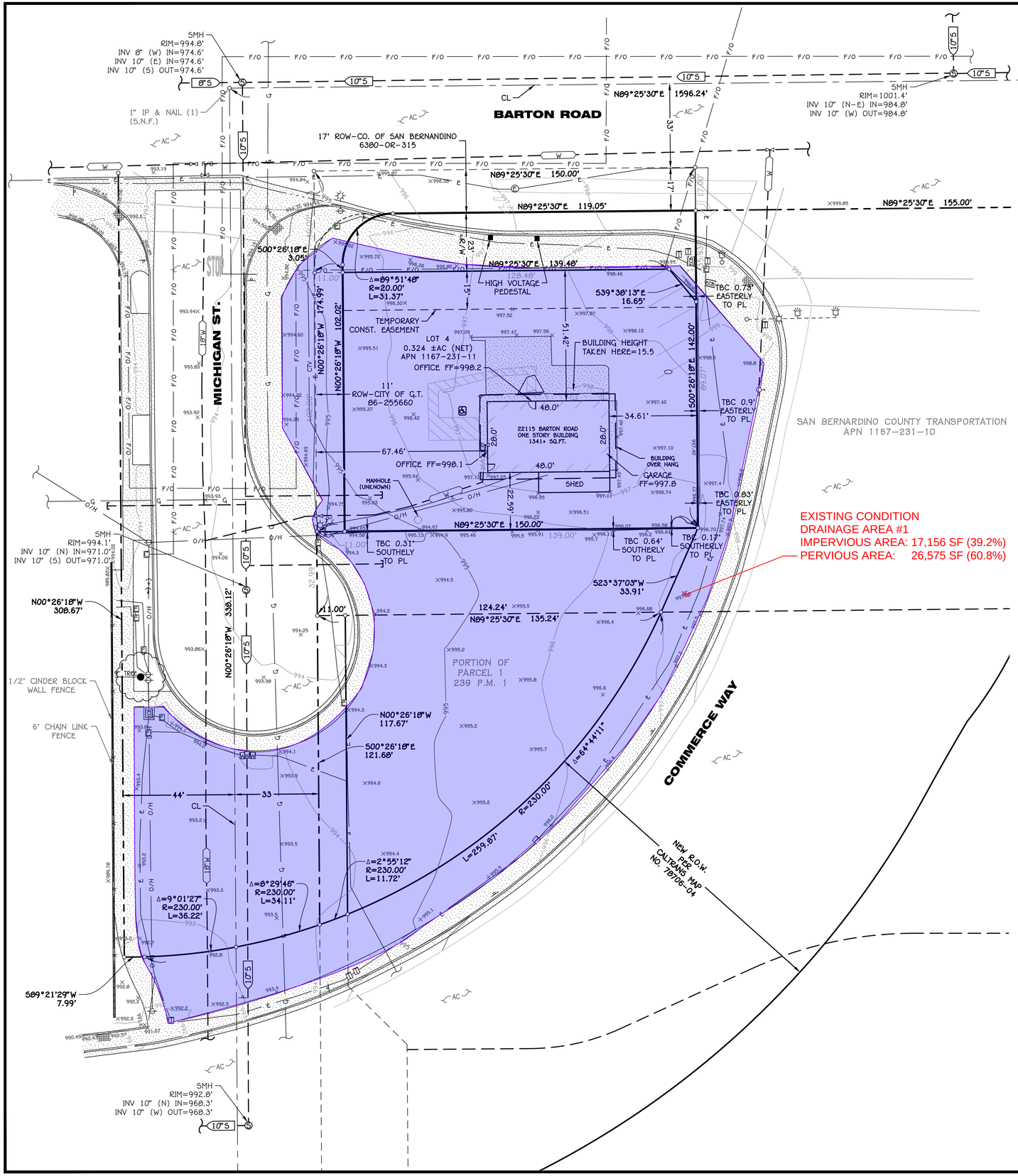


West side of Michigan St. Looking towards the south portion of property



West side of Michigan St. Looking towards existing building and south portion of property

APPENDIX C: LAND USAGE CHARACTERISTICS PRE AND POST DEVELOPMENT



LEGEND

SANITARY SEWER	6" S
STORM DRAIN	12" D
WATER MAIN	8" W
CENTERLINE	
ELECTRICAL LINE	E
GAS LINE	G
FIBER OPTIC	F/O
OVERHEAD POWER LINE	O/H
WALL	
SEWER MANHOLE	
STREET LIGHT	
DRAIN INLET	
CLEANOUT	
FIRE HYDRANT	
WATER VALVE	
WATER METER	
YARD LIGHT	
TRAFFIC LIGHT	
TRAFFIC SIGNAL PULLBOX	
ELECTRIC CABINET	
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POWER POLE	
POLE GUY	
SIGN	
ELECTRIC MANHOLE	
SIDEWALK, CURB AND GUTTER	
SPOT ELEVATION	X 266.5
TREE	
HANDICAPPED DOME	
PER 239 P.M. 01	(1)

MONUMENTS

DIMENSION POINT	○
FOUND MONUMENT WELL AS NOTED	⊠
FOUND MONUMENT AS NOTED	⊗

ABBREVIATIONS

AC	ASPHALT CONCRETE
APN	ASSESSOR PARCEL NUMBER
BNDY	BOUNDARY
C&G	CURB & GUTTER
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CONC	CONCRETE
ESMT	EASEMENT
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GM	GAS METER
IP	IRON PIPE
MH	MANHOLE
N.T.S.	NOT TO SCALE
O.R.	OFFICIAL RECORDS
P.U.E.	PUBLIC UTILITY EASEMENT
P.M.	PARCEL MAP
R.O.W.	RIGHT OF WAY
SMH	SEWER MANHOLE
S.N.F.	SEARCH NOT FOUND
(M)	MEASURED

BURRELL CONSULTING GROUP, INC. (BURRELL), HEREBY EXPRESSLY RESERVES ITS COMMON LAW COPYRIGHTS AND OTHER PROPERTY RIGHTS IN THESE DRAWINGS. NO PART OF THESE DRAWINGS AND SPECIFICATIONS AND NO WAY BE USED BY THE CLIENT ON OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT, NOR IS EXECUTED, OR NOT, THESE DRAWINGS AND SPECIFICATIONS ARE NOT TO BE USED BY THE CLIENT OR ANY OTHER PERSON OR ENTITY FOR ANY PURPOSE WHATSOEVER WITHOUT THE EXPRESS PERMISSION AND CONSENT OF BURRELL BY AN AGREEMENT IN WRITING AND WITH APPROPRIATE REUSE FEE COMPENSATION BEING PAID TO BURRELL.

DESIGNED N/A | DRAWN FS | CHECKED BY DDV | SCALE HORIZ. 1"=20' VERT. N/A

ENGR. INIT:	CITY ACCEPTANCE BY	DATE

REV. NO.	DESCRIPTION

BENCHMARK INFORMATION
ELEVATION: DATUM:
DESCRIPTION:

BURRELL CONSULTING GROUP, INC.
1001 Enterprise Way, Suite 100 Roseville, CA 95678 (916) 783-8898

NSPS/ALTA LAND TITLE SURVEY FOR:

DUTCH BROS
22115 BARTON Rd.
APN 1167-231-11

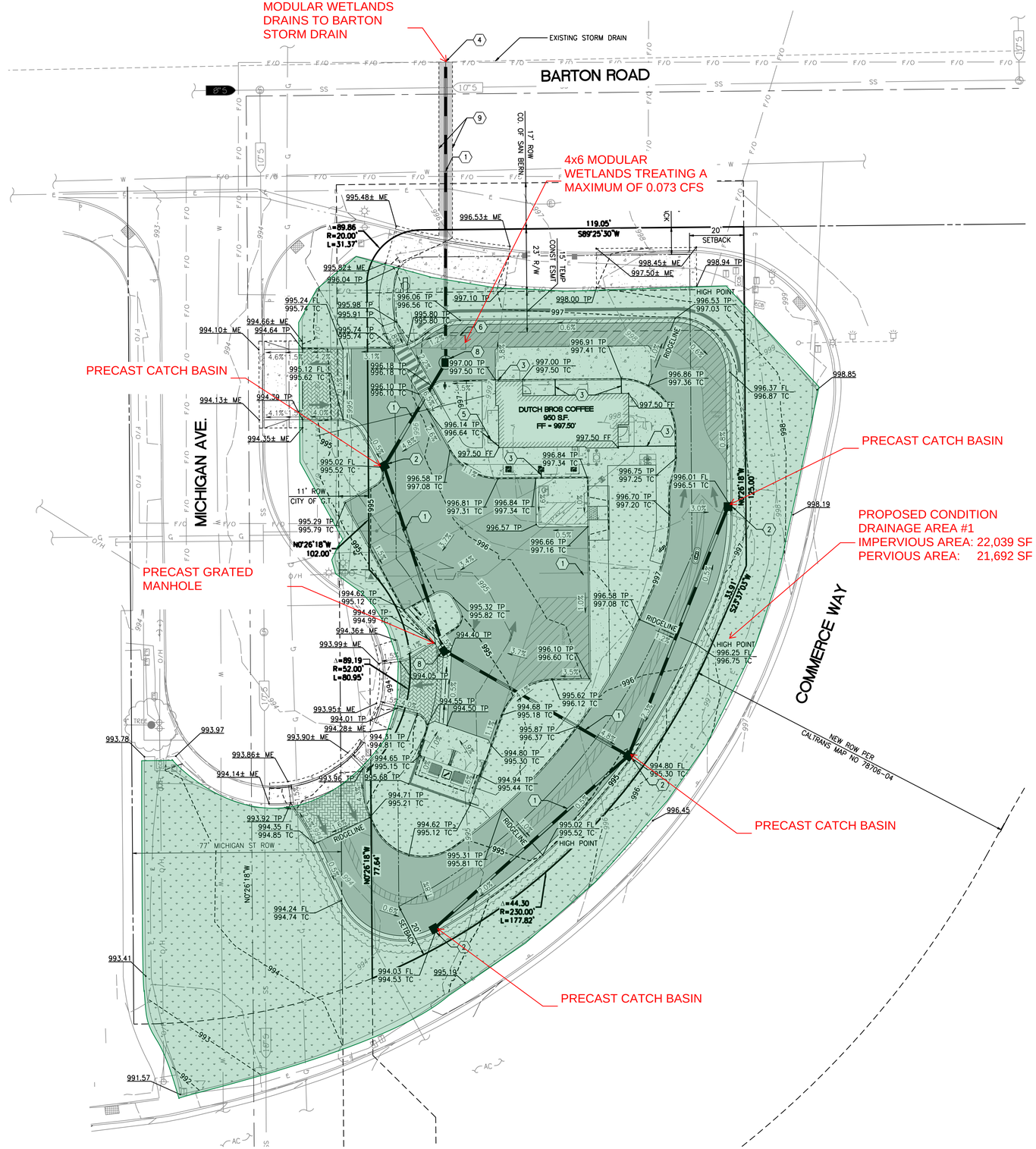
CITY OF GRAND TERRACE CALIFORNIA

SHEET 2 OF 2 SHEETS

JOB NO. 2510-00-1385

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DUTCH BROS. COFFEE - CA5204, GRAND TERRACE, CA
PRELIMINARY GRADING AND DRAINAGE PLAN



UTILITY POTHOLING NOTE:

THE CIRCLED LOCATIONS ARE REQUIRED TO BE POTHOLED TO VERIFY VERTICAL AND HORIZONTAL LOCATION OF EXISTING UTILITY AND/OR POTENTIAL CONFLICTS WITH EXISTING UTILITIES. POTHOLING SHALL BE PERFORMED PRIOR TO INSTALLING ANY PROPOSED UTILITIES. CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. OF ANY CONFLICTS.



N.T.S VICINITY MAP

N

0 10' 20' 40'

SCALE: 1"=20'

ABBREVIATIONS

FL – FLOWLINE
FSH – FLUSH
GP – CURB GUTTER PLATE
ME – MATCH EXISTING ELEVATION
SW – TOP OF SIDEWALK
TC – TOP OF CURB/SIDEWALK
TP – TOP OF PAVEMENT
BOW – BOTTOM FACE OF WALL AT FINISHED GRADE
TOW – TOP FACE OF WALL AT FINISHED GRADE
HP – LOCAL HIGH POINT

GRADING GENERAL NOTES:

1. ALL GRADING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE CURRENT CITY ORDINANCE AND STANDARD PLANS. THE GRADING IS SUBJECT TO THE OBSERVATION AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT.
2. ALL PUBLIC SIDEWALKS BEING CONSTRUCTED WHERE THE EXISTING CURBING IS TO REMAIN SHALL BE CONSTRUCTED AT A CROSS SLOPE OF ±1.5% FROM THE EXISTING BACK OF CURB ELEVATION (CROSS SLOPE MAY REQUIRE TO BE VARIED: 1.25% TO 1.75%). CONTRACTOR SHALL VERIFY CONSTRUCTION FORMS COMPLY WITH ADA STANDARDS PRIOR TO POURING CONCRETE.
3. ALL TRENCHING IN THE RIGHT-OF-WAY SHALL BE REPLACED AND GRADED TO MATCH EXISTING CONDITIONS, CROSS SLOPES SHALL BE MAINTAINED.
4. ALL EXISTING UTILITY STRUCTURES AND ASSOCIATED LIDS THAT FALL WITHIN THE AREA OF WORK SHALL BE ADJUSTED TO FINISHED GRADE ELEVATIONS, AND BE FREE OF ANY ABRUPT VERTICAL CHANGES. NOTIFY ENGINEER OF ANY DISCREPANCIES.
5. ALL PAVEMENT SAWCUTS ARE DESIGNED TO BE REPLACED TO MATCH EXISTING PAVEMENTS AND SHALL BE FLUSH AND FREE OF ANY VERTICAL CHANGES. NOTIFY ENGINEER OF ANY DISCREPANCIES.
6. REFER TO LANDSCAPE PLANS FOR LANDSCAPE PLANTER SOIL GRADING AND SOIL HOLD-DOWN (2" MINIMUM).
7. ALL SPOT ELEVATIONS SHOWN ARE TO FINISH SURFACE (TOP OF ASPHALT OR TOP OF CONCRETE PAVEMENT, NOT TOP OF CURB/SIDEWALK) UNLESS OTHERWISE NOTED.
8. CONTRACTOR TO REMOVE AND CLEAN-UP ANY SPILLED DEBRIS WITHIN THE PUBLIC ROW THROUGHOUT THE GRADING OPERATIONS OF THE PROJECT.
9. ALL GRADING CONSTRUCTION DEBRIS MATERIALS SHALL BE REMOVED AND DISPOSED INTO AN APPROVED DUMP SITE PRIOR TO ANY EXCAVATION OF FILL OPERATIONS AND/OR AS SPECIFIED BY THE SOLID WASTE MANAGEMENT PLAN AND/OR DIRECTED BY PUBLIC WORKS. ALL GRADING ACTIVITIES MUST COMPLY WITH ALL STORMWATER REGULATIONS INCLUDING STABILIZATION OF ANY SOIL DISTURBED AREA. ALL EXCESS DIRT SHALL BE LEVELED AND/OR DISPOSED OF CORRECTLY AND MAY NOT BE TAKEN TO A FACILITY THAT IS NOT LISTED IN THE SWPPP OF SOLID WASTE MANAGEMENT PLAN AND/OR APPROVED BY THE CITY.

GRADING SURFACE NOTES:

PERIMETER ELEVATIONS SHALL BE CONFIRMED PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ENGINEER WITH ANY DISCREPANCIES.

(#) STORM NOTES:

1. PROPOSED 12" PVC STORM DRAIN. MIN 0.5% SLOPE. TYPICAL
2. PROPOSED 24x24 PRECAST STORMWATER CATCHBASIN.
3. PROPOSED 3" SIDEWALK UNDERDRAIN
4. PROPOSED CONNECTION TO PUBLIC STORM DRAIN SYSTEM PER CITY OF GRAND TERRACE STANDARDS.
5. PROPOSED DOWNSPOUT DRAIN TO LANDSCAPED SWALE.
6. PROPOSED 4X6 MODULAR WETLANDS SYSTEM
7. NOT USED.
8. PROPOSED 48" PRECAST CONCRETE MANHOLE
9. PROPOSED UTILITY TRENCH FOR CONNECTION TO BARTON STORM DRAIN. REPLACE EXISTING PAVING IN KIND U.O.N.

STORM DRAIN GENERAL NOTES:

1. ALL STRUCTURE ELEVATIONS SHOWN ARE TO CENTER OF STRUCTURE AT FINISH SURFACE (TOP OF ASPHALT OR TOP OF CONCRETE PAVEMENT, NOT TOP OF CURB/SIDEWALK) UNLESS OTHERWISE NOTED.
2. ALL STORM DRAINAGE STRUCTURES EXPOSED TO TRAFFIC SHALL BE TRAFFIC RATED INCLUDING STRUCTURE, LID, GRATE, ETC.
3. ALL STORM DRAIN PIPING DENOTED AS 'PVC' SHALL CONFORM TO SCHEDULE 40, ASTM D2665.
4. ALL STORM PIPING INSTALL WITH LESS THAN 2 FEET OF COVER SHALL BE BACKFILLED WITH A CONTROLLED DENSITY FILL (SLURRY).
5. ALL STORM DRAINAGE STRUCTURES WITH LIDS EXPOSED TO PEDESTRIAN TRAFFIC SHALL BE HEEL PROOF AND SLIP RESISTANT IN ACCORDANCE WITH ACCESSIBILITY REQUIREMENTS.
6. PROVIDE ALL INCIDENTAL FITTINGS, BENDS, WYES, TEES, COUPLINGS, GASKETS, ETC. REQUIRED TO CONSTRUCT THE INFRASTRUCTURE DEPICTED.
7. ALL TRENCHING SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE PURVEYOR.
8. PROVIDE MARKING TAPE AND LOCATE WIRE WITH ALL TRENCH INSTALLATIONS.
9. CONTRACTOR TO OBTAIN ANY NECESSARY RIGHT-OF-WAY PERMITS IF REQUIRED FOR WORK SHOWN ON PLANS.
10. CONTRACTOR TO RAISE AND ADJUST ALL EXISTING AND PROPOSED CATCH BASIN RIMS TO FINAL GRADE AS NECESSARY. CATCH BASINS WITHIN ADA ACCESSIBLE PATHS SHALL BE ADJUSTED TO FINAL ELEVATIONS IN COMPLIANCE WITH CURRENT ADA REQUIREMENTS.

LEGEND

BUILDING LINE
EXISTING CURB TO REMAIN
PROPOSED CURB
PROPOSED LANDSCAPING
PROPOSED ASPHALT
PROPOSED CONCRETE

PRELIMINARY NOT FOR CONSTRUCTION

Title: PRELIMINARY GRADING AND DRAINAGE PLAN
22115 BARTON ROAD
GRAND TERRACE, CA 92313

For: DUTCH BROS

LICENSED PROFESSIONAL ENGINEER
HAL PRUBB
29814
STATE OF CALIFORNIA
CIVIL
Not for Construction

Scale: Horizontal 1" = 20' Vertical N/A
Designed BB Drawn BB Checked MTL Approved HPG Date 5/9/24

Barghausen Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 22144
Sheet C2.0

P:\22000s\22144\preliminary\22144-G.dwg 5/8/2024 9:33 AM BBLADES

"The name DUTCH BROS. and all associated logos, distinctive designs, content, information, and other materials featured, displayed, contained herein, and made available by Dutch Bros., including but not limited to, the "look and feel" of the establishments and products, all text, images, colors, configurations, graphics, designs, illustrations, photographs, and pictures (collectively, the "Materials") are owned by and/or licensed by DB Franchising USA, LLC and are protected by copyright, trademark, trade dress, patent, and/or other intellectual property rights and unfair competition laws under the United States and foreign laws."

APPENDIX D: GEOTECHNICAL REPORT

GEOTECHNICAL ENGINEERING INVESTIGATION
PROPOSED DUTCH BROS GRAND TERRACE
22115 BARTON ROAD
GRAND TERRACE, CALIFORNIA

KA PROJECT NO. 112-21146
JANUARY 31, 2022

Prepared for:

MR. RUSS ORSI
DUTCH BROS. LLC
110 SW 4TH STREET
GRANTS PASS, OR 97526

Prepared by:

KRAZAN & ASSOCIATES, INC.
GEOTECHNICAL ENGINEERING DIVISION
1100 OLYMPIC DRIVE, STE 103
CORONA, CALIFORNIA 92881
(951) 273-1011

Krazan & ASSOCIATES, INC.

GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING
CONSTRUCTION TESTING & INSPECTION

January 31, 2022 KA Project No. 112-21146

Mr. Russ Orsi
Construction Manager
Dutch Bros. LLC
110 SW 4th Street
Grants Pass, OR 97526

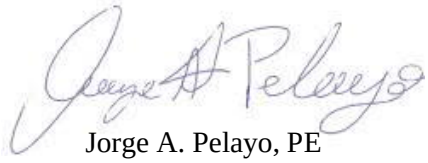
RE: Geotechnical Engineering Investigation
Proposed Dutch Bros Grand Terrace
22115 Barton Road
Grand Terrace, California

Dear Mr. Orsi:

In accordance with your request, we have completed a Geotechnical Engineering Investigation for the above-referenced site. The results of our investigation are presented in the attached report.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact our office at (951) 273-1011.

Respectfully submitted,
KRAZAN & ASSOCIATES, INC.



Jorge A. Pelayo, PE
Project Engineer
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JAP

TABLE OF CONTENTS

INTRODUCTION **1**

PURPOSE AND SCOPE **1**

PROPOSED CONSTRUCTION **2**

SITE LOCATION, SITE HISTORY AND SITE DESCRIPTION **2**

GEOLOGIC SETTING **3**

FIELD AND LABORATORY INVESTIGATIONS **3**

SOIL PROFILE AND SUBSURFACE CONDITIONS **4**

GROUNDWATER **4**

FAULT RUPTURE HAZARD ZONES **5**

SEISMIC HAZARDS ZONES **5**

CONCLUSIONS AND RECOMMENDATIONS **7**

Administrative Summary 7
Groundwater Influence on Structures/Construction 8
Site Preparation 8
Collapsible Soils 10
Engineered Fill 10
Drainage and Landscaping 11
Utility Trench Backfill 11
Foundations - Conventional 12
Floor Slabs and Exterior Flatwork 12
Lateral Earth Pressures and Retaining Walls 13
R-Value Test Results and Pavement Design 14
Seismic Parameters – 2019 CBC 15
Soil Cement Reactivity 16
Compacted Material Acceptance 17
Testing and Inspection 17

LIMITATIONS **17**

SITE PLAN ..... **Following Text**

LOG OF BORINGS (1 TO 6) ..... **Appendix A**

GENERAL EARTHWORK SPECIFICATIONS ..... **Appendix B**

GENERAL PAVING SPECIFICATIONS ..... **Appendix C**

January 31, 2022 KA Project No. 112-21146

GEOTECHNICAL ENGINEERING INVESTIGATION
PROPOSED DUTCH BROS GRAND TERRACE
22115 BARTON ROAD
GRAND TERRACE, CALIFORNIA

INTRODUCTION

This report presents the results of our Geotechnical Engineering Investigation for the proposed Starbucks Store to be located at the physical address of 22115 Barton Road, in the city of Grand Terrace, California. Discussions regarding site conditions are presented herein, together with conclusions and recommendations pertaining to site preparation, Engineered Fill, utility trench backfill, drainage and landscaping, foundations, concrete floor slabs and exterior flatwork, retaining walls, soil cement reactivity, and pavement design.

A site plan showing the approximate boring locations is presented following the text of this report. A description of the field investigation, boring logs, and the boring log legend are presented in Appendix A. Appendix A contains a description of the laboratory testing phase of this study; along with the laboratory test results. Appendices B and C contain guides to earthwork and pavement specifications. When conflicts in the text of the report occur with the general specifications in the appendices, the recommendations in the text of the report have precedence.

PURPOSE AND SCOPE

This investigation was conducted to evaluate the soil and groundwater conditions at the subject site, to make geotechnical engineering recommendations for use in design of specific construction elements, and to provide criteria for site preparation and Engineered Fill construction.

Our scope of services was outlined in our Proposal dated December 15, 2021 (Proposal No. G21182CAC) and included the following:

- A site reconnaissance by a member of our engineering staff to evaluate the surface conditions at the project site.
- A field investigation consisting of drilling six (6) borings to depths of approximately ten (10) to twenty (20) feet below existing site grades for evaluation of the subsurface conditions at the project site.

- Performance of one (1) infiltration tests at the subject site in order to determine an estimated infiltration rate for the near surface soil conditions encountered at the subject site.

- Performing laboratory tests on representative soil samples obtained from the borings to evaluate the physical and index properties of the subsurface soils.

- Evaluation of the data obtained from the investigation and an engineering analysis to provide recommendations for use in the project design and preparation of construction specifications.

- Preparation of this report summarizing the results, conclusions, recommendations, and findings of our investigation.

Environmental services, such as a chemical analysis of soil and groundwater for possible environmental contaminates, were not in our scope of services.

PROPOSED CONSTRUCTION

We understand that design of the proposed development is currently underway and as such, specific structural load information and other final details pertaining to the structures are unavailable. On a preliminary basis, it is understood that the proposed development will include the construction of a new Dutch Bros Store with a footprint of approximately 950 square feet at the subject site. It is anticipated that the building will be a single-story structure utilizing concrete slab-on-grade construction supported on a shallow foundation system. Footing loads are anticipated to be relatively light. On-site paved areas, trash enclosure, drive-thru lanes, hardscaping and localized landscaping are also planned for the development. Rough grading of the subject site is anticipated to require only minor cuts and fills in order to establish finished site grades and provide for positive site drainage.

In the event these structural or grading details are inconsistent with the final design criteria, the Soils Engineer should be notified so that we may update this writing as applicable.

SITE LOCATION AND SITE DESCRIPTION

The site is irregularly shaped and encompasses an estimated area of approximately 0.74 acres. The site is located at the physical address of 22115 Barton Road, in the city of Grand Terrace, California.

The site is bound to the north by Barton Road and Grand Terrace Elementary, to the east by Barton Road and commercial properties beyond, to the south by Barton Road and a vacant lot beyond, and to the west by Michigan Street and commercial properties beyond.

Presently, the site has an auto shop at the northern portion of the site and a vacant parcel at the southern portion of the site. Groundcover at the site consists of flexible pavements and localized planter areas scattered throughout the subject site and exposed subgrade at the southern end of the project site. Buried utility lines are reportedly located along the edges of the site and may extend into portions of the site. The site is relatively flat and level with no major changes in grade.

GEOLOGIC SETTING

The subject site is located within the Peninsular Ranges Geomorphic Province (CGS Note 36). The Peninsular Ranges are a series of ranges that are separated by northwest trending valleys, subparallel to faults branching from the San Andreas Fault. The trend of topography is similar to the Coast Ranges, but the geology is more like the Sierra Nevada, with granitic rock intruding the older metamorphic rocks. The Peninsular Ranges extend in to lower California and are bound on the east by the Colorado Desert. The Los Angeles Basin and the island group (Santa Catalina, Santa Barbara, and the distinctly terraced San Clemente and San Nicolas islands), together with the surrounding continental shelf (cut by deep submarine fault troughs), are included in this province.

Locally, the site is within the San Bernardino portion of the Santa Ana River basin; 2.9 miles northeast of the subject site is the San Jacinto Fault Zone and the San Bernardino Mountains beyond. Approximately 9.8 miles northeast of the subject site is the San Andreas Fault zone and the San Bernardino Mountains beyond.

The near-surface deposits in the vicinity of the subject site generally consist of soil deposits that are fine to medium grained, silty sand (SM) to the explored depth of 20 feet below the ground surface. The bedrock underlying the near surface deposits is comprised of Pleistocene-age alluvium (Map Symbol Q_{oa}) consisting of alluvium, lake, playa, and terrace deposits, see the attached Geologic Map (Figure 5) and Boring Logs (Appendix A) for a description of the earth materials encountered during our investigation.

Numerous moderate to large earthquakes have affected the area of the subject site within historic time. Based on the proximity of several dominant active faults and seismogenic structures, as well as the historic seismic record, the area of the subject site is considered subject to relatively high seismicity. The area in consideration shows no mapped faults on-site according to maps prepared by the California Geologic Survey and published by the International Conference of Building Officials (ICBO). No evidence of surface faulting was observed on the property during our reconnaissance.

FIELD AND LABORATORY INVESTIGATIONS

Subsurface soil conditions were explored by drilling a total of six (6) borings to depths ranging from approximately ten (10) to twenty (20) feet below existing site grade, using a truck-mounted drill rig. In addition, 1 bulk subgrade sample was obtained from the site for laboratory R-Value testing. The approximate boring and bulk sample locations are shown on the site plan. During drilling operations, penetration tests were performed at regular intervals to evaluate the soil consistency and to obtain information regarding the engineering properties of the subsurface soils. Soil samples were retained for laboratory testing. The soils encountered were continuously examined and visually classified in accordance with the Unified Soil Classification System. A more detailed description of the field investigation is presented in Appendix A.

Laboratory tests were performed on selected soil samples to evaluate their physical characteristics and engineering properties. The laboratory testing program was formulated with emphasis on the evaluation of natural moisture, density, gradation, shear strength, consolidation potential, R-Value, and moisture-

density relationships of the materials encountered. In addition, chemical tests were performed to evaluate the corrosivity of the soils to buried concrete and metal. Details of the laboratory test program and results of the laboratory tests are summarized in Appendix A. This information, along with the field observations, was used to prepare the final boring logs in Appendix A.

SOIL PROFILE AND SUBSURFACE CONDITIONS

Based on our findings, the subsurface conditions encountered appear typical of those found in the geologic region of the site. Groundcover at the northern end of the site consist of 3 inches of asphalt pavement underlain by approximately 4 inches of discernable base material.

Near surface soil conditions were found to have varying apparent densities and in place moisture contents. In general, the underlying soils encountered at the boring locations consisted of stiff to hard sandy silts up to the depth of approximately 13 feet below current site grades. Below the sandy silt, medium dense silty sand was encountered at a depth of 13 feet below site grades to the maximum depth explored, 20 feet below site grades.

Field and laboratory tests suggest that these soils are moderately strong and slightly compressible. Penetration resistance ranged from 11 to 55 blows per foot. Dry densities measured on relatively undisturbed samples from within 10 feet of the existing ground surface ranged from approximately 109 to 131 pcf. Relatively undisturbed soil samples consolidated approximately 1.6 percent under a 2-ksf load when saturated. A relatively undisturbed soil sample had an angle of internal friction of 27 degrees with a cohesion value of 300 psf.

For additional information about the soils encountered, please refer to the boring logs in Appendix A.

GROUNDWATER

Test boring locations were checked for the presence of groundwater during and immediately following the drilling operations. Groundwater was not encountered in any of the borings drilled as part of our subsurface investigation. Based on a review of historic groundwater data, groundwater is expected to exist at depths in excess of fifty (50) feet below site grades.

It should be recognized that water table elevations may fluctuate with time, being dependent upon seasonal precipitation, irrigation, land use, and climatic conditions, as well as other factors. Therefore, water level observations at the time of the field investigation may vary from those encountered during the construction phase of the project. The evaluation of such factors is beyond the scope of this report.

SEISMICITY AND LIQUEFACTION POTENTIAL

Seismicity is a general term relating to the abrupt release of accumulated strain energy in the rock materials of the earth's crust in a given geographical area. The recurrence of accumulation and subsequent release of strain have resulted in faults and fault systems. Fault patterns and density reflect relative degrees of regional stress through time, but do not necessarily indicate recent seismic activity;

therefore, the degree of seismic risk must be determined or estimated by the seismic record in any given region.

Soil liquefaction is a state of soil particle suspension caused by a complete loss of strength when the effective stress drops to zero. Liquefaction normally occurs under saturated conditions in soils such as clean sand in which the strength is purely frictional. However, liquefaction has occurred in soils other than clean sand. Liquefaction usually occurs under vibratory conditions such as those induced by seismic events. To evaluate the liquefaction potential of the site, the following items were evaluated:

1) Soil type
2) Groundwater depth
3) Relative density
4) Initial confining pressure
5) Intensity and duration of ground shaking

The State of California has not prepared a State of California Seismic Hazard Zones Map for the area where the project site is situated. Thus, the subject site is not located in an area designated by the State of California as a liquefaction hazard zone. Furthermore, the San Bernardino County Land Use Plan Map for Liquefaction identifies the subject site is in an area not designated as a Liquefaction Hazard Zone.

Subsurface soil conditions encountered at the subject site consisted of medium dense granular soil and stiff to hard soil. Groundwater was not encountered at the subject site and is not anticipated to be located within a depth of 50 feet below site grades. Based on the conditions encountered and the results of our laboratory testing, the subsurface conditions encountered at the subject site are not considered to be subject to liquefaction.

FAULT RUPTURE HAZARD ZONES

The Alquist-Priolo Geologic Hazards Zones Act went into effect in March, 1973. Since that time, the Act has been amended 11 times (Hart, 2007). The purpose of the Act, as provided in California Geologic Survey (CGS) Special Publication 42 (SP 42), is to prohibit the location of most structures for human occupancy across the traces of active faults and to mitigate thereby the hazard of fault-rupture." The Act was renamed the Alquist-Priolo Earthquake Fault Zoning Act in 1994, and at that time, the originally designated "Special Studies Zones" was renamed the "Earthquake Fault Zones."

An Earthquake Fault Zones Map has not been prepared for the vicinity of the subject site to date. The nearest zoned fault is a portion of the San Jacinto Fault Zone, located approximately 2.9 miles from the subject site.

SEISMIC HAZARDS ZONES

In 1990, the California State Legislature passed the Seismic Hazard Mapping Act to protect public safety from the effects of strong shaking, liquefaction, landslides, or other ground failure, and other hazards

caused by earthquakes. The Act requires that the State Geologist delineate various seismic hazards zones on Seismic Hazards Zones Maps. Specifically, the maps identify areas where soil liquefaction and earthquake-induced landslides are most likely to occur. A site-specific geotechnical evaluation is required prior to permitting most urban developments within the mapped zones. The Act also requires sellers of real property within the zones to disclose this fact to potential buyers.

A State of California, Special Studies Zone Map has not been prepared for the subject site. San Bernardino County has prepared a Land Use Plan with geologic hazard overlays. According to the County of San Bernardino Land Use Plan, the subject site is located in an area designated as having a low Liquefaction potential.

OTHER HAZARDS

Rockfall, Landslide, Slope Instability, and Debris Flow: The subject site is relatively flat and level. It is our understanding that there are no significant slopes proposed as part of the proposed development. Provided the recommendations presented in this report are implemented into the design and construction of the anticipated development, rockfalls, landslides, slope instability, and debris flows are not anticipated to pose a hazard to the subject site.

Seiches: Seiches are large waves generated within enclosed bodies of water. The site is not located in close proximity to any lakes or reservoirs. As such, seiches are not anticipated to pose a hazard to the subject site.

Tsunamis: Tsunamis are tidal waves generated by fault displacement or major ground movement. The site is several miles from the ocean. As such, tsunamis are not anticipated to pose a hazard to the subject site.

Hydroconsolidation: The near surface soils encountered at the subject site were found to be stiff to hard. Provided the recommendations in this report are incorporated into the design and construction of the proposed development, hydroconsolidation is not anticipated to be a significant concern for the subject site.

EXPANSIVE SOIL

The near-surface sand soils encountered at the site have been identified through laboratory testing as having a low expansion potential. Expansive soils have the potential to undergo volume change, or shrinkage and swelling, with changes in soil moisture. As expansive soils dry, the soil shrinks; when moisture is reintroduced into the soil, the soil swells.

SOIL CORROSIVITY

Corrosion tests were performed to evaluate the soil corrosivity to the buried structures. The tests consisted of sulfate content, chloride content, and resistivity and the results of the tests are included as follows:

Parameter	Results	Test Method
Resistivity	2,960 ohms-m	CA 643
Sulfate	115 ppm	CA 417
Chloride	47 ppm	CA 422
pH	7.5	EPA 9045C

INFILTRATION TESTING

Estimated infiltration rates were determined using the results of open borehole percolation testing performed at the subject site. Infiltration rates were calculated using the Inverse Borehole Method. The percolation testing indicated that the near surface stiff sandy silt soil was found to have an infiltration rate of approximately 0.16 inch per hour. Detailed results of the infiltration testing are included in Appendix A in tabular format. The soil infiltration rates are based on tests conducted with clean water. The infiltration rates may vary with time as a result of soil clogging from water impurities. A factor of safety should be incorporated into the design of the infiltration system to compensate for these factors as determined appropriate by the designer. In addition, routine maintenance consisting of clearing the system of clogged soils and debris should be expected.

CONCLUSIONS AND RECOMMENDATIONS

Based on the findings of our field and laboratory investigations, along with previous geotechnical experience in the project area, the following is a summary of our evaluations, conclusions, and recommendations.

Administrative Summary

In brief, the subject site and soil conditions, with the exception of the loose surficial soils and the existing development at the northern end of the site, appear to be conducive to the development of the project.

To reduce post-construction soil movement and provide uniform support for the buildings and other foundations, overexcavation and recompaction within the proposed building footprint areas should be performed to a minimum depth of at least four (4) feet below existing grades or two (2) feet below the bottom of the proposed foundation bearing grades. In addition, any fill soil present in the building area should be removed and re-placed as compacted Engineered Fill. The actual depth of the overexcavation and recompaction should be determined by our field representative during construction. The exposed subgrade at the base of the overexcavation should then be scarified, moisture-conditioned as necessary, and compacted. The overexcavation and recompaction should also extend laterally five feet (5') beyond

edges of the proposed footings or building limits. Any undocumented fill encountered during grading should be removed and replaced with Engineered Fill.

To reduce post-construction soil movement and provide uniform support for the proposed parking and drive area, overexcavation and recompaction of the near surface soil in the proposed parking area should be performed to a minimum depth of at least twelve (12) inches below existing grades or proposed subgrade, whichever is deeper. The actual depth of the overexcavation and recompaction should be determined by our field representative during construction. The overexcavation and recompaction should also extend laterally at least three (3) feet beyond edges of the proposed paving limits or to the property boundary. Any undocumented fill encountered during grading should be removed and replaced with Engineered Fill.

Fill soils should be placed in lifts approximately 6 inches thick, moisture-conditioned to a minimum of 2 percent above optimum moisture-content, and compacted to achieve at least 95 percent maximum density based on ASTM Test Method D1557. Additional lifts should not be placed if the previous lift did not meet the required density or if soil conditions are not stable.

Unless designed by the project structural engineer, concrete slabs-on-grade should be a minimum of five (5) inches thick. It is recommended that the concrete slab be reinforced to reduce crack separation and possible vertical offset at the cracks. We recommend at least No. 3 reinforcing bars placed on 18-inch centers, be used for this purpose. Thicker floor slabs with increased concrete strength and reinforcement should be designed wherever heavy concentrated loads, heavy equipment, or machinery is anticipated.

The exterior floors should be poured separately in order to act independently of the walls and foundation system. Exterior finish grades should be sloped a minimum of 2 percent away from all interior slab areas to preclude ponding of water adjacent to the structures. All fills required to bring the building pads to grade should be Engineered Fills.

Groundwater Influence on Structures/Construction

During our field investigation free groundwater was not encountered in any of the borings drilled as part of this investigation. It is not anticipated that groundwater will impact the proposed development. If groundwater is encountered, our firm should be consulted prior to dewatering the site. In addition to the groundwater level, if earthwork is performed during or soon after periods of precipitation, the subgrade soils may become saturated, pump, or not respond to densification techniques. Typical remedial measures include discing and aerating the soil during dry weather; mixing the soil with dryer materials; removing and replacing the soil with an approved fill material; or mixing the soil with an approved lime or cement product. Our firm should be consulted prior to implementing remedial measures to observe the unstable subgrade conditions and provide appropriate recommendations.

Site Preparation

General site clearing should include removal of vegetation; existing utilities; structures including foundations; existing stockpiled soil; trees and associated root systems; rubble; rubbish; and any loose and/or saturated materials. Site stripping should extend to a minimum depth of 2 to 4 inches, or until all

organics in excess of 3 percent by volume are removed. Deeper stripping may be required in localized areas. These materials will not be suitable for use as Engineered Fill. However, stripped topsoil may be stockpiled and reused in landscape or non-structural areas.

Overexcavation and Recompaction – Building and Foundation Areas

To reduce post-construction soil movement and provide uniform support for the buildings and other foundations, overexcavation and recompaction within the proposed building footprint areas should be performed to a minimum depth of at least four (4) feet below existing grades or two (2) feet below the bottom of the proposed foundation bearing grades. In addition, any fill soil present in the building area should be removed and re-placed as compacted Engineered Fill. The actual depth of the overexcavation and recompaction should be determined by our field representative during construction. The exposed subgrade at the base of the overexcavation should then be scarified, moisture-conditioned as necessary, and compacted. The overexcavation and recompaction should also extend laterally five feet (5') beyond edges of the proposed footings or building limits. Any undocumented fill encountered during grading should be removed and replaced with Engineered Fill.

Overexcavation and Recompaction – Proposed Parking Area

To reduce post-construction soil movement and provide uniform support for the proposed parking and drive areas, overexcavation and recompaction of the near surface soil in the proposed parking area should be performed to a minimum depth of at least twelve (12) inches below existing grades or proposed subgrade, whichever is deeper. The actual depth of the overexcavation and recompaction should be determined by our field representative during construction. The overexcavation and recompaction should also extend laterally at least three (3) feet beyond edges of the proposed paving limits or to the property boundary. Any undocumented fill encountered during grading should be removed and replaced with Engineered Fill.

Any buried structures encountered during construction should be properly removed and the resulting excavations backfilled with Engineered Fill, compacted to a minimum of 95 percent of the maximum dry density based on ASTM Test Method D1557. Excavations, depressions, or soft and pliant areas extending below planned finished subgrade levels should be cleaned to firm, undisturbed soil and backfilled with Engineered Fill. In general, any septic tanks, debris pits, cesspools, or similar structures should be entirely removed. Concrete footings should be removed to an equivalent depth of at least 3 feet below proposed footing elevations or as recommended by the Soils Engineer. Any other buried structures encountered, should be removed in accordance with the recommendations of the Soils Engineer. The resulting excavations should be backfilled with Engineered Fill.

The shrinkage on recompacted soil and fill placement is estimated at 10 to 15 percent. Subsidence within building areas, below the recompaction bottom, is anticipated to be less than 0.01 feet, due to the recommended overexcavation. Subsidence within parking areas, below the 12-inch recompaction depth, is estimated at 0.1 feet.

The upper soils, during wet winter months become very moist due to the absorptive characteristics of the soil. Earthwork operations performed during winter months may encounter very moist unstable soils,

which may require removal to grade a stable building foundation. Project site winterization consisting of placement of aggregate base and protecting exposed soils during the construction phase should be performed.

A representative of our firm should be present during all site clearing and grading operations to test and observe earthwork construction. This testing and observation is an integral part of our service as acceptance of earthwork construction is dependent upon compaction of the material and the stability of the material. The Soils Engineer may reject any material that does not meet compaction and stability requirements. Further recommendations of this report are predicated upon the assumption that earthwork construction will conform to recommendations set forth in this section and the Engineered Fill section.

Collapsible Soils

The near surface soils encountered at the subject site are moisture-sensitive and are moderately compressible under saturated conditions. Structures within the project vicinity have experienced excessive post-construction settlement, when the foundation soils become near saturated. As recommended in the site preparation section of this report, the collapsible soils should be removed and recompacted to a minimum of 95 percent of the maximum dry density based on ASTM D1557 Test Method.

Engineered Fill

The on-site native soils are predominately poorly-graded sands. These soils will be suitable for reuse as Non-Expansive Engineered Fill, provided they are cleansed of excessive organics, fragments greater than 4 inches in diameter, and debris.

The preferred materials specified for Engineered Fill are suitable for most applications with the exception of exposure to erosion. Project site winterization and protection of exposed soils during the construction phase should be the sole responsibility of the Contractor, since he has complete control of the project site at that time.

Imported Non-Expansive Fill should consist of a well-graded, slightly cohesive, fine silty sand or sandy silt, with relatively impervious characteristics when compacted. This material should be approved by the Soils Engineer prior to use and should typically possess the following characteristics:

Percent Passing No. 200 Sieve	20 to 50
Plasticity Index	10 maximum
UBC Standard 29-2 Expansion Index	15 maximum

Fill soils should be placed in lifts approximately 6 inches thick, moisture-conditioned to at least optimum moisture-content, and compacted to achieve at least 95 percent of the maximum dry density

based on ASTM Test Method D1557. Additional lifts should not be placed if the previous lift did not meet the required density or if soil conditions are not stable.

Drainage and Landscaping

The ground surface should slope away from building pad and pavement areas toward appropriate drop inlets or other surface drainage devices. In accordance with Section 1804.4 of the 2019 California Building Code, it is recommended that the ground surface adjacent to foundations be sloped a minimum of 5 percent for a minimum distance of 10 feet away from structures, or to an approved alternative means of drainage conveyance. Swales used for conveyance of drainage and located within 10 feet of foundations should be sloped a minimum of 2 percent. Impervious surfaces, such as pavement and exterior concrete flatwork, within 10 feet of building foundations should be sloped a minimum of 2 percent away from the structure. Drainage gradients should be maintained to carry all surface water to collection facilities and off-site. These grades should be maintained for the life of the project.

Slots or weep holes should be placed in drop inlets or other surface drainage devices in pavement areas to allow free drainage of adjoining base course materials. Cutoff walls should be installed at pavement edges adjacent to vehicular traffic areas; these walls should extend to a minimum depth of 12 inches below pavement subgrades to limit the amount of seepage water that can infiltrate the pavements. Where cutoff walls are undesirable subgrade drains can be constructed to transport excess water away from planters to drainage interceptors. If cutoff walls can be successfully used at the site, construction of subgrade drains is considered unnecessary.

Utility Trench Backfill

Utility trenches should be excavated according to accepted engineering practice following OSHA (Occupational Safety and Health Administration) standards by a Contractor experienced in such work. The responsibility for the safety of open trenches should be borne by the Contractor. Traffic and vibration adjacent to trench walls should be reduced; cyclic wetting and drying of excavation side slopes should be avoided. Depending upon the location and depth of some utility trenches, groundwater flow into open excavations could be experienced, especially during or shortly following periods of precipitation.

Utility trench backfill placed in or adjacent to buildings and exterior slabs should be compacted to at least 95 percent of the maximum dry density based on ASTM Test Method D1557. Utility trench backfill placed in pavement areas should be compacted to at least 95 percent of the maximum dry density based on ASTM Test Method D1557. Pipe bedding should be in accordance with pipe manufacturer's recommendations.

Sandy soil conditions were encountered at the site. These cohesionless soils have a tendency to cave in trench wall excavations. Shoring or sloping back trench sidewalls may be required within these sandy and gravelly soils.

The Contractor is responsible for removing all water-sensitive soils from the trench regardless of the backfill location and compaction requirements. The Contractor should use appropriate equipment and methods to avoid damage to the utilities and/or structures during fill placement and compaction.

Foundations - Conventional

The proposed structures may be supported on a shallow foundation system bearing on a minimum of two (2) feet of Engineered Fill. Spread and continuous footings can be designed for the following maximum allowable soil bearing pressures:

Load	Allowable Loading
Dead Load Only	1,800 psf
Dead-Plus-Live Load	2,400 psf
Total Load, including wind or seismic loads	3,200 psf

The footings should have a minimum depth of 18 inches below pad subgrade (soil grade) or adjacent exterior grade, whichever is lower. Footings should have a minimum width of 15 inches, regardless of load.

The total soil movement is not expected to exceed 1 inch. Differential movement measured across a horizontal distance of 30 feet should be less than ½ inch. Most of the settlement is expected to occur during construction as the loads are applied. However, additional post-construction settlement may occur if the foundation soils are flooded or saturated.

The footing excavations should not be allowed to dry out any time prior to pouring concrete. It is recommended that footings be reinforced by at least one No. 4 reinforcing bar in both top and bottom.

Resistance to lateral footing displacement can be computed using an allowable friction factor of 0.25 acting between the base of foundations and the supporting subgrade. Lateral resistance for footings can alternatively be developed using an allowable equivalent fluid passive pressure of 200 pounds per cubic foot acting against the appropriate vertical footing faces. The frictional and passive resistance of the soil may be combined without reduction in determining the total lateral resistance. A ⅓ increase in the above value may be used for short duration, wind, or seismic loads. All of the above earth pressures are unfactored and are, therefore, not inclusive of factors of safety.

Floor Slabs and Exterior Flatwork

Concrete slab-on-grade floors should be underlain by a water vapor retarder. The water vapor retarder should be installed in accordance with accepted engineering practices. The water vapor retarder should consist of a vapor retarder sheeting underlain by a minimum of 3 inches of compacted, clean, gravel of ¾-inch maximum size. To aid in concrete curing an optional 2 to 4 inches of granular fill may be placed on top of the vapor retarder. The granular fill should consist of damp clean sand with at least 10 to 30 percent of the sand passing the 100 sieve. The sand should be free of clay, silt, or organic material. Rock dust which is manufactured sand from rock crushing operations is typically suitable for the granular fill. This granular fill material should be compacted.

Unless designed by the project structural engineer, concrete slabs-on-grade should be a minimum of five (5) inches thick. It is recommended that the concrete slab be reinforced to reduce crack separation and possible vertical offset at the cracks. We recommend at least No. 3 reinforcing bars placed on 18-inch centers, be used for this purpose. Thicker floor slabs with increased concrete strength and reinforcement should be designed wherever heavy concentrated loads, heavy equipment, or machinery is anticipated.

The exterior floors should be poured separately in order to act independently of the walls and foundation system. Exterior finish grades should be sloped a minimum of 2 percent away from all interior slab areas to preclude ponding of water adjacent to the structures. All fills required to bring the building pads to grade should be Engineered Fills.

Moisture within the structure may be derived from water vapors, which were transformed from the moisture within the soils. This moisture vapor can travel through the vapor membrane and penetrate the slab-on-grade. This moisture vapor penetration can affect floor coverings and produce mold and mildew in the structure. To reduce moisture vapor intrusion, it is recommended that a vapor retarder be installed. It is recommended that the utility trenches within the structure be compacted, as specified in our report, to reduce the transmission of moisture through the utility trench backfill. Special attention to the immediate drainage and irrigation around the building is recommended. Positive drainage should be established away from the structure and should be maintained throughout the life of the structure. Ponding of water should not be allowed adjacent to the structure. Over-irrigation within landscaped areas adjacent to the structure should not be performed. In addition, ventilation of the structure (i.e. ventilation fans) is recommended to reduce the accumulation of interior moisture.

Lateral Earth Pressures and Retaining Walls

Walls retaining horizontal backfill and capable of deflecting a minimum of 0.1 percent of its height at the top may be designed using an equivalent fluid active pressure of 45 pounds per square foot per foot of depth. Walls incapable of this deflection or are fully constrained walls against deflection may be designed for an equivalent fluid at-rest pressure of 66 pounds per square foot per foot of depth. Expansive soils should not be used for backfill against walls. The wedge of non-expansive backfill material should extend from the bottom of each retaining wall outward and upward at a slope of 2:1 (horizontal to vertical) or flatter. The stated lateral earth pressures do not include the effects of hydrostatic water pressures generated by infiltrating surface water that may accumulate behind the retaining walls; or loads imposed by construction equipment, foundations, or roadways. All of the above earth pressures are unfactored and are, therefore, not inclusive of factors of safety.

During grading and backfilling operations adjacent to any walls, heavy equipment should not be allowed to operate within a lateral distance of 5 feet from the wall, or within a lateral distance equal to the wall height, whichever is greater, to avoid developing excessive lateral pressures. Within this zone, only hand-operated equipment ("whackers," vibratory plates, or pneumatic compactors) should be used to compact the backfill soils.

Retaining and/or below grade walls should be drained with either perforated pipe encased in free-draining gravel or a prefabricated drainage system. The gravel zone should have a minimum width of 12

inches wide and should extend upward to within 12 inches of the top of the wall. The upper 12 inches of backfill should consist of native soils, concrete, asphaltic concrete, or other suitable backfill to reduce surface drainage into the wall drain system. The aggregate should conform to Class 2 permeable materials graded in accordance with CalTrans Standard Specifications (2010). Prefabricated drainage systems, such as Miradrain®, Enkadrain®, or an equivalent substitute, are acceptable alternatives in lieu of gravel provided they are installed in accordance with the manufacturer's recommendations. If a prefabricated drainage system is proposed, our firm should review the system for final acceptance prior to installation.

Drainage pipes should be placed with perforations down and should discharge in a non-erosive manner away from foundations and other improvements. The pipes should be placed no higher than 6 inches above the heel of the wall, in the center line of the drainage blanket and should have a minimum diameter of four inches. Collector pipes may be either slotted or perforated. Slots should be no wider than ⅛ inch in diameter, while perforations should be no more than ¼ inch in diameter. If retaining walls are less than 6 feet in height, the perforated pipe may be omitted in lieu of weep holes on 4 feet maximum spacing. The weep holes should consist of 4-inch diameter holes (concrete walls) or unmortared head joints (masonry walls) and not be higher than 18 inches above the lowest adjacent grade. Two 8-inch square overlapping patches of geotextile fabric (conforming to CalTrans Standard Specifications for "edge drains") should be affixed to the rear wall opening of each weep hole to retard soil piping.

R-Value Test Results and Pavement Design

One bulk soil sample was obtained from the project site for R-Value testing at the location shown on the attached site plan. The sample was tested in accordance with the State of California Materials Manual Test Designation 301. Results of the test are as follows:

Sample	Depth	Description	R-Value at Equilibrium
1	0-36"	Sandy Silt (ML)	25

The test results are moderate and indicate good subgrade support characteristics under dynamic traffic loads. The following table shows the recommended pavement sections for various traffic indices.

Traffic Index	Asphaltic Concrete	Class II Aggregate Base*	Compacted Subgrade**
4.0	2.0"	6.0"	12.0"
4.5	2.5"	6.0"	12.0"
5.0	2.5"	7.5"	12.0"
5.5	3.0"	7.5"	12.0"
6.0	3.0"	9.5"	12.0"
6.5	3.5"	9.5"	12.0"
7.0	4.0"	10.5"	12.0"
7.5	4.0"	12.0"	12.0"

**** 95% compaction based on ASTM Test Method D1557 or CAL 216***
***** 95% compaction based on ASTM Test Method D1557 or CAL 216***

If traffic indices are not available, an estimated (typical value) index of 4.5 may be used for light automobile traffic and an index of 7.0 may be used for light truck traffic. Following grading operations, it is recommended additional R-Value testing be performed to verify the design R-Value.

The following recommendations are for light-duty and heavy-duty Portland Cement Concrete pavement sections.

PORTLAND CEMENT PAVEMENT
LIGHT DUTY

Traffic Index	Portland Cement Concrete***	Class II Aggregate Base*	Compacted Subgrade**
4.5	5.0"	4.0"	12.0"

HEAVY DUTY

Traffic Index	Portland Cement Concrete***	Class II Aggregate Base*	Compacted Subgrade**
7.0	6.5"	4.0"	12.0"

**** 95% compaction based on ASTM Test Method D1557 or CAL 216***
***** 95% compaction based on ASTM Test Method D1557 or CAL 216***
******Minimum compressive strength of 3000 psi***

Seismic Parameters – 2019 California Building Code

The Site Class per Section 1613 of the 2019 California Building Code (2019 CBC) and Table 20.3-1 of ASCE 7-16 is based upon the site soil conditions. It is our opinion that a Site Class D is most consistent with the subject site soil conditions. For seismic design of the structures based on the seismic provisions of the 2019 CBC, we recommend the following parameters:

Seismic Item	Value	CBC Reference
Site Class	D	Section 1613.3.2
Site Coefficient F_a	1.000	Table 1613.3.3 (1)
S_S	1.933	Section 1613.3.1
S_{MS}	1.933	Section 1613.3.3
S_{DS}	1.288	Section 1613.3.4
Site Coefficient F_v	1.700	Table 1613.3.3 (2)
S_1	0.762	Section 1613.3.1
S_{M1}	1.295	Section 1613.3.3
S_{D1}	0.864	Section 1613.3.4
T_S	0.670	
PGA_M	0.898	

INFILTRATION TESTING

The shallow soil conditions present at the subject site were evaluated by drilling shallow borings in the vicinity of the infiltration test. The borings drilled at the site indicated the subsurface soil conditions consisted of medium dense sands.

Infiltration rates were determined using the results of open borehole infiltration testing performed at the subject site. Infiltration testing performed on the near surface sandy silt soil indicates an infiltration rate of approximately 0.16 inch per hour. Based on the very low infiltration rates, the subsurface conditions encountered at the subject site are not considered conducive to infiltration. Detailed results of the percolation test and infiltration rate are attached in tabular format. The soil percolation rates are based on tests conducted with clean water. The infiltration rates may vary with time as a result of soil clogging from water impurities. A factor of safety should be incorporated into the design of the percolation system to compensate for these factors as determined appropriate by the designer. In addition, periodic maintenance consisting of clearing the bottom of the system of clogged soils should be expected.

It is recommended that the location of the infiltration systems not be closer than ten feet (10') as measured laterally from the edge of the adjacent property line, ten feet (10') from the outside edge of any foundation and five (5') from the edge of any right-of way to the outside edges of the infiltration system.

If the infiltration location is within ten feet (10') from the proposed foundation, it is recommended that this infiltration system should be impervious from the finished ground surface to a depth that will achieve a diagonal distance of a minimum of ten feet (10') below the bottom of the closest footing in the project.

Soil Cement Reactivity

Excessive sulfate in either the soil or native water may result in an adverse reaction between the cement in concrete (or stucco) and the soil. HUD/FHA and CBC have developed criteria for evaluation of sulfate levels and how they relate to cement reactivity with soil and/or water.

One soil sample was obtained from the site and tested in accordance with State of California Materials Manual Test Designation 417. The sulfate concentrations detected in these soil samples were found to be negligible and are below the maximum allowable values established by HUD/FHA and UBC. Therefore, no special design requirements are necessary to compensate for sulfate reactivity with the cement.

Electrical resistivity testing of the soils indicates that the onsite soils may have a severe potential for metal loss from electrochemical corrosion process. A qualified corrosion engineer may be consulted regarding mitigation of the corrosion effects of the onsite soils on underground metal utilities.

Compacted Material Acceptance

Compaction specifications are not the only criteria for acceptance of the site grading or other such activities. However, the compaction test is the most universally recognized test method for assessing the performance of the Grading Contractor. The numerical test results from the compaction test cannot be used to predict the engineering performance of the compacted material. Therefore, the acceptance of compacted materials will also be dependent upon the stability of that material. The Soils Engineer has the option of rejecting any compacted material regardless of the degree of compaction if that material is considered to be unstable or if future instability is suspected. A specific example of rejection of fill material passing the required percent compaction is a fill which has been compacted with an in-situ moisture-content significantly less than optimum moisture. This type of dry fill (brittle fill) is susceptible to future settlement if it becomes saturated or flooded.

Testing and Inspection

A representative of Krazan & Associates, Inc. should be present at the site during the earthwork activities to confirm that actual subsurface conditions are consistent with the exploratory fieldwork. This activity is an integral part of our service, as acceptance of earthwork construction is dependent upon compaction testing and stability of the material. This representative can also verify that the intent of these recommendations is incorporated into the project design and construction. Krazan & Associates, Inc. will not be responsible for grades or staking, since this is the responsibility of the Prime Contractor.

LIMITATIONS

Soils Engineering is one of the newest divisions of Civil Engineering. This branch of Civil Engineering is constantly improving as new technologies and understanding of earth sciences advance. Although your site was analyzed using the most appropriate and most current techniques and methods, undoubtedly there will be substantial future improvements in this branch of engineering. In addition to advancements in the field of Soils Engineering, physical changes in the site, either due to excavation or fill placement, new agency regulations, or possible changes in the proposed structure after the soils report is completed may require the soils report to be professionally reviewed. In light of this, the Owner should be aware that there is a practical limit to the usefulness of this report without critical review. Although the time limit for this review is strictly arbitrary, it is suggested that 2 years be considered a reasonable time for the usefulness of this report.

Foundation and earthwork construction is characterized by the presence of a calculated risk that soil and groundwater conditions have been fully revealed by the original foundation investigation. This risk is derived from the practical necessity of basing interpretations and design conclusions on limited sampling of the earth. The recommendations made in this report are based on the assumption that soil conditions do not vary significantly from those disclosed during our field investigation. If any variations or undesirable conditions are encountered during construction, the Soils Engineer should be notified so that supplemental recommendations may be made.

The conclusions of this report are based on the information provided regarding the proposed construction. If the proposed construction is relocated or redesigned, the conclusions in this report may

not be valid. The Soils Engineer should be notified of any changes so the recommendations may be reviewed and re-evaluated.

This report is a Geotechnical Engineering Investigation with the purpose of evaluating the soil conditions in terms of foundation design. The scope of our services did not include any Environmental Site Assessment for the presence or absence of hazardous and/or toxic materials in the soil, groundwater, or atmosphere; or the presence of wetlands. Any statements, or absence of statements, in this report or on any boring log regarding odors, unusual or suspicious items, or conditions observed, are strictly for descriptive purposes and are not intended to convey engineering judgment regarding potential hazardous and/or toxic assessment.

The geotechnical engineering information presented herein is based upon professional interpretation utilizing standard engineering practices and a degree of conservatism deemed proper for this project. It is not warranted that such information and interpretation cannot be superseded by future geotechnical engineering developments. We emphasize that this report is valid for the project outlined above and should not be used for any other sites.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact our office at (951) 273-1011.

Respectfully submitted,
KRAZAN & ASSOCIATES, INC.



Jorge A. Pelayo, PE
Project Engineer
RCE No. 91269

Angel Menchaca, EIT
Staff Engineer

Figures

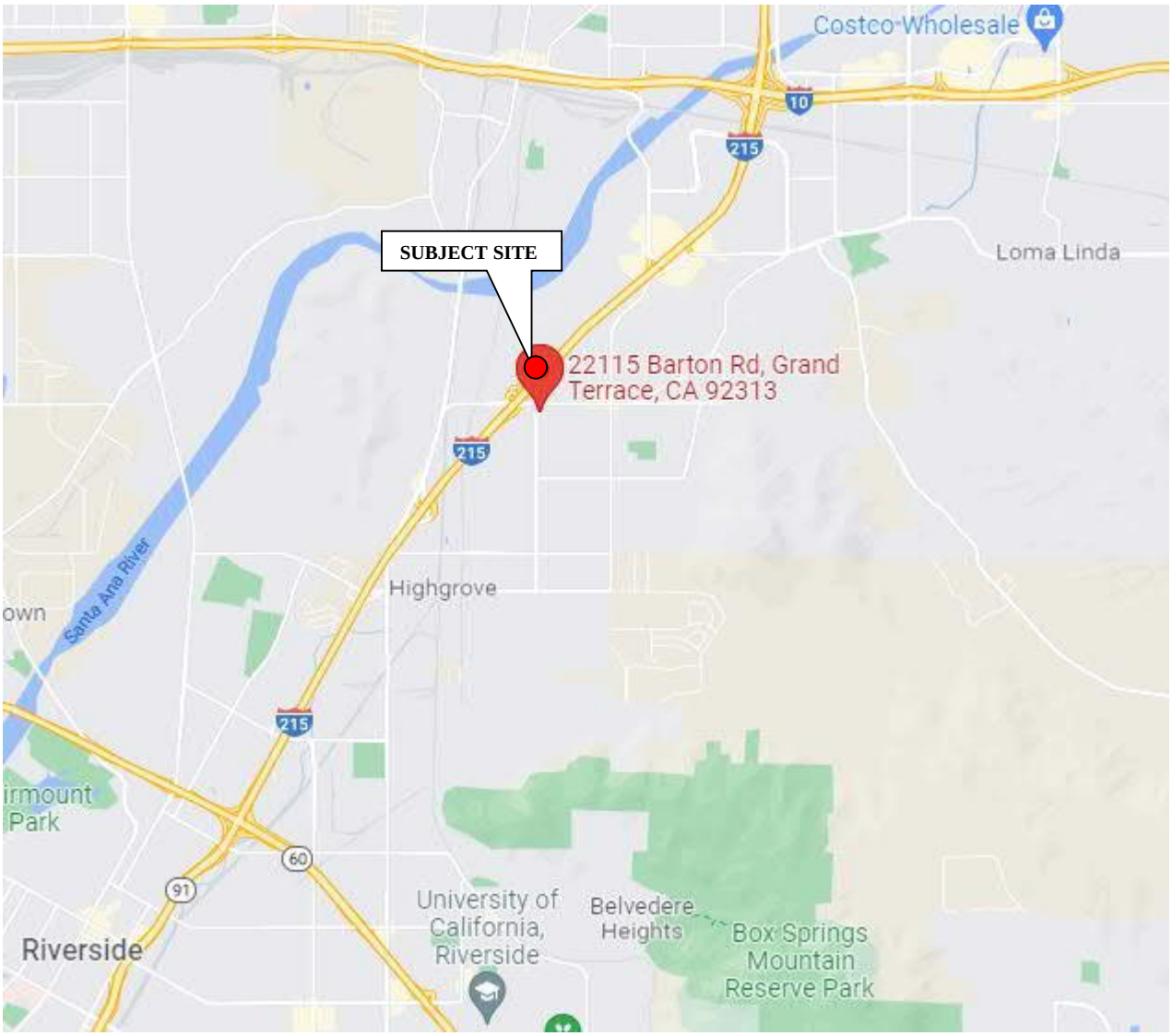


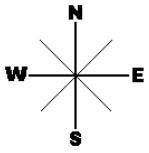
APPROXIMATE BORING LOCATION

APPROXIMATE INFILTRATION TEST LOCATION

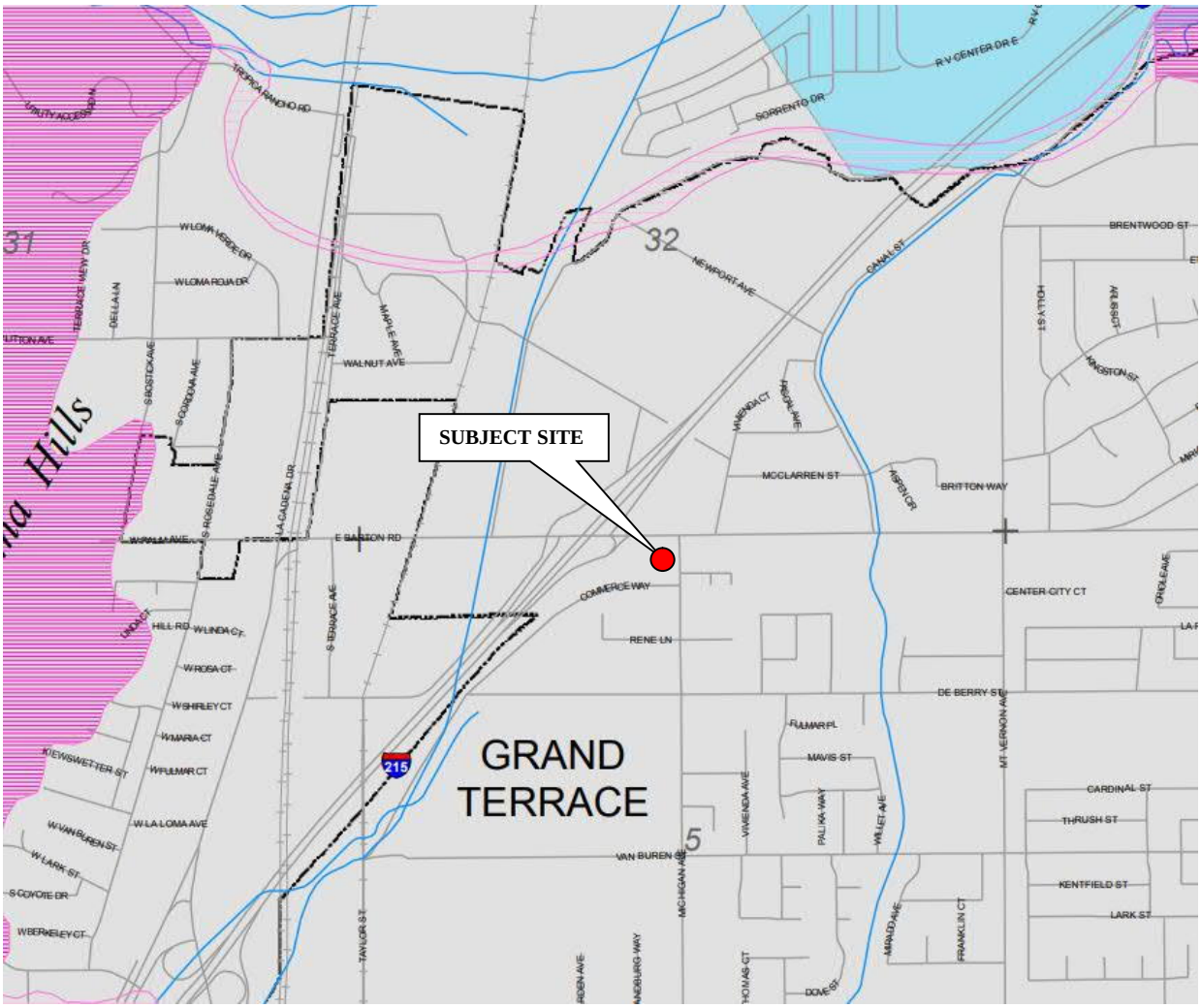
APPROXIMATE R-VALUE LOCATION

SITE MAP	**Scale:** NTS	**Date:** January, 2022	Krazan GEOTECHNICAL ENGINEERING
PROPOSED DUTCH BROS 22115 BARTON ROAD GRAND TERRACE, CALIFORNIA	**Drawn by:** AM	**Approved by:** JAP	
	Project No. 112-21146	**Figure No.** 1	



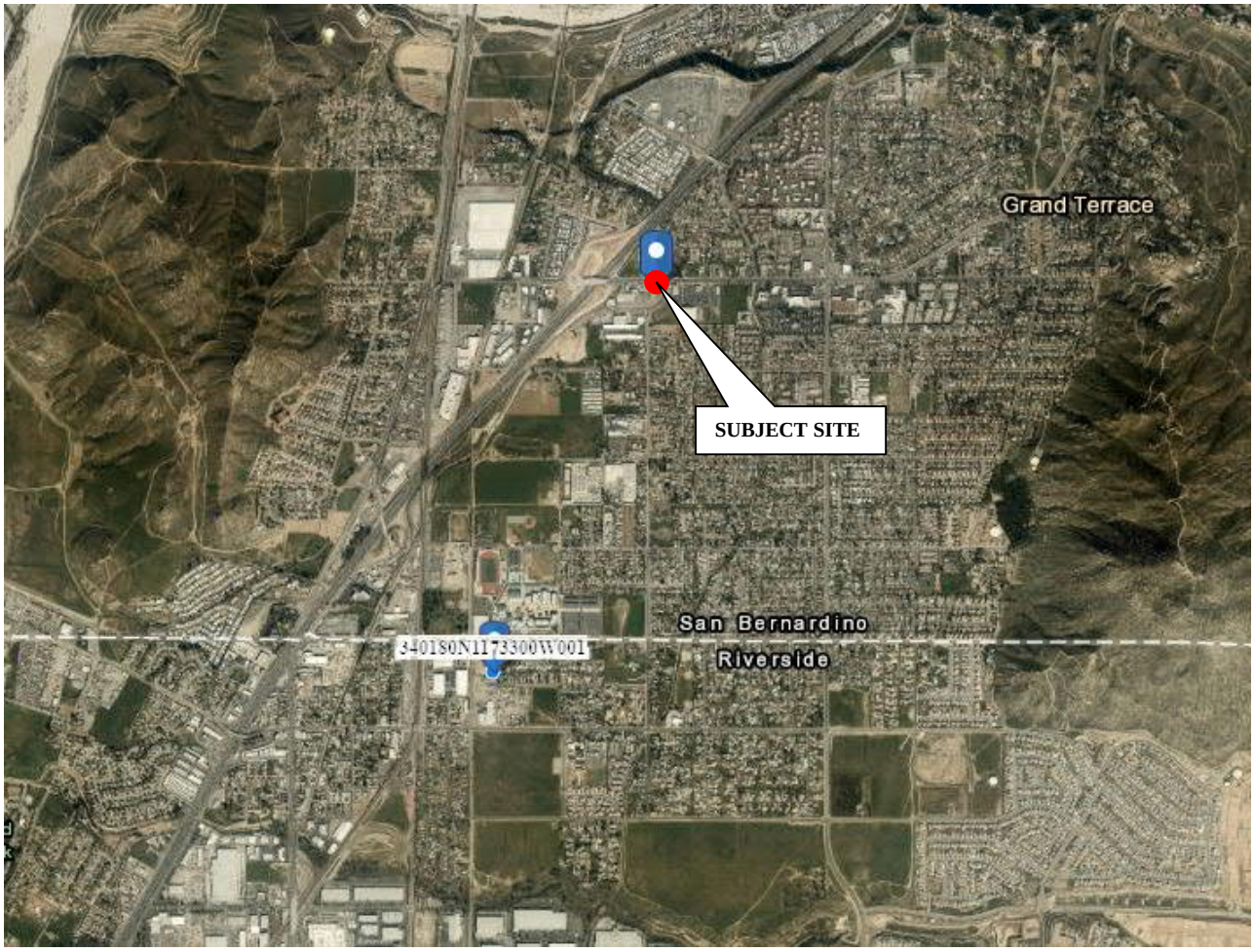


VICINITY MAP	**Scale:** NTS	**Date:** January, 2022	Krazan GEOTECHNICAL ENGINEERING
PROPOSED DUTCH BROS 22115 BARTON ROAD GRAND TERRACE, CALIFORNIA	**Drawn by:** AM	**Approved by:** JAP	
	Project No. 112-21146	**Figure No.** 2	

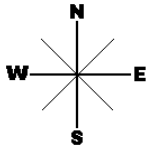


Source: San Bernardino County Land Use Plan General Plan Geologic Hazard Overlays

EARTHQUAKE ZONES OF REQUIRED INVESTIGATION MAP	**Scale:** NTS	**Date:** January, 2022	Krazan GEOTECHNICAL ENGINEERING
PROPOSED DUTCH BROS 22115 BARTON ROAD GRAND TERRACE, CALIFORNIA	**Drawn by:** AM	**Approved by:** JAP	
	Project No. 112-21146	**Figure No.** 3	

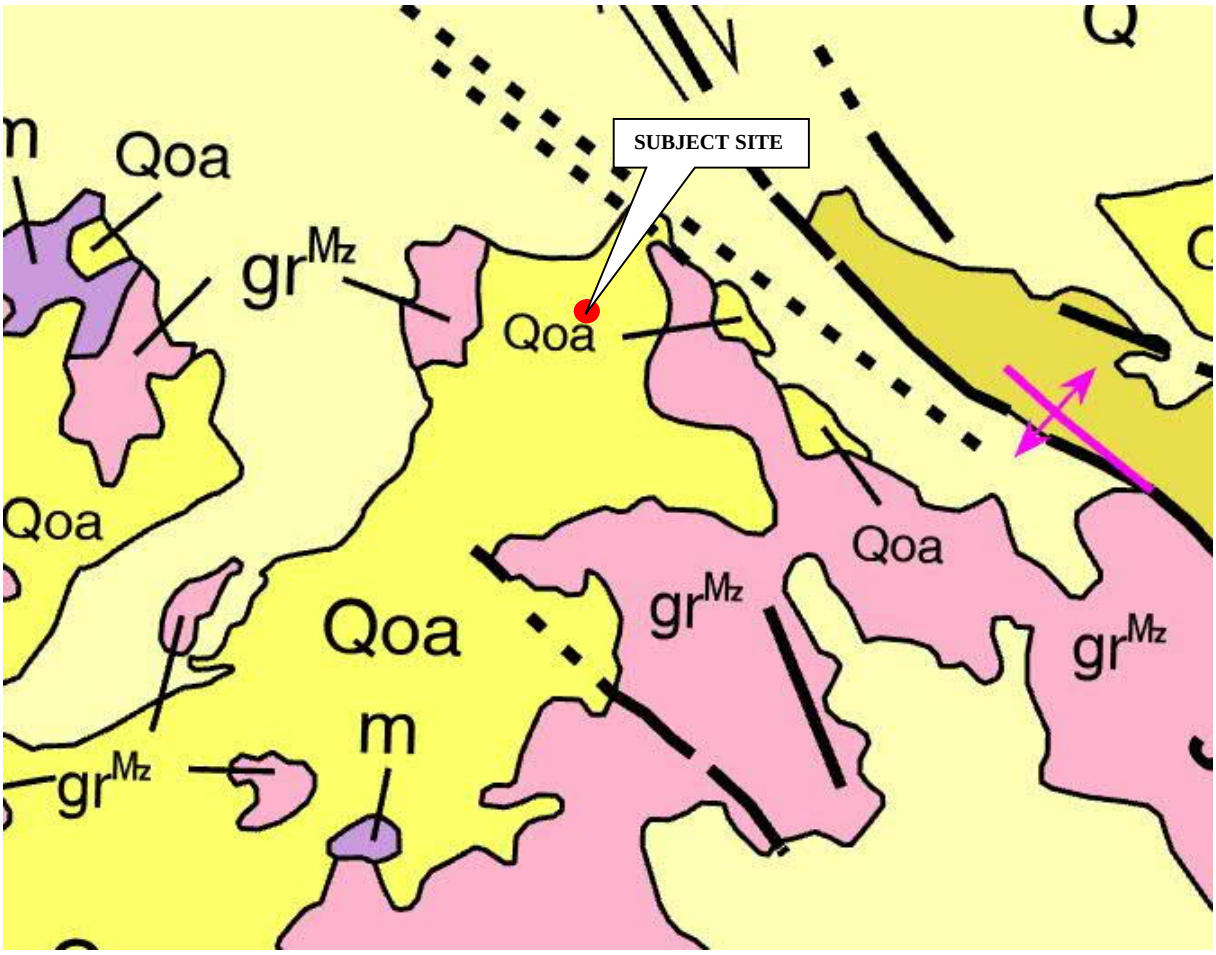


Depth to groundwater about 178 feet below the ground surface elevation measured at well number 340180N1173300W001 about 1.2 southwest from the project site



Source: Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA

HISTORICAL GROUNDWATER	**Scale:** NTS	**Date:** January, 2022	Krazan GEOTECHNICAL ENGINEERING
PROPOSED DUTCH BROS 22115 BARTON ROAD GRAND TERRACE, CALIFORNIA	**Drawn by:** AM	**Approved by:** JAP	
	Project No. 112-21146	**Figure No.** 4	



Generalized Rock Types: Qoa

General Lithology	marine and nonmarine (continental) sedimentary rocks
Age	Pleistocene
Description	Older alluvium, lake, playa, and terrace deposits.

Source: Department of Conservation: Geologic Map of California, 2010

GEOLOGIC MAP	**Scale:** NTS	**Date:** January, 2022	Krazan GEOTECHNICAL ENGINEERING
PROPOSED DUTCH BROS 22115 BARTON ROAD GRAND TERRACE, CALIFORNIA	**Drawn by:** AM	**Approved by:** JAP	
	Project No. 112-21146	**Figure No.** 5	

Appendix A

Log of Borings & Laboratory Testing

APPENDIX A

FIELD AND LABORATORY INVESTIGATIONS

Field Investigation

The field investigation consisted of a surface reconnaissance and a subsurface exploratory program. Six 7½-inch diameter exploratory borings were advanced to depths of up to twenty feet below site grades. The boring locations are shown on the site plan.

The soils encountered were logged in the field during the exploration and, with supplementary laboratory test data, are described in accordance with the Unified Soil Classification System.

Modified standard penetration tests and standard penetration tests were performed at selected depths. This test represents the resistance to driving a 2½-inch and 1½-inch diameter split barrel sampler, respectively. The driving energy was provided by a hammer weighing 140 pounds falling 30 inches. Relatively undisturbed soil samples were obtained while performing this test. Bag samples of the disturbed soil were obtained from the auger cuttings. The modified standard penetration tests are identified in the sample type on the boring logs with a full shaded in block. The standard penetration tests are identified in the sample type on the boring logs with one-half of the block shaded. All samples were returned to our Corona laboratory for evaluation.

Laboratory Investigation

The laboratory investigation was programmed to determine the physical and mechanical properties of the foundation soil underlying the site. Test results were used as criteria for determining the engineering suitability of the surface and subsurface materials encountered.

In-situ moisture-content, dry density, consolidation, direct shear, and sieve analysis tests were completed for the undisturbed samples representative of the subsurface material. Expansion index and R-Value tests were completed for select bag samples obtained from the auger cuttings. These tests, supplemented by visual observation, comprised the basis for our evaluation of the site material.

The log of the exploratory borings and laboratory determinations is presented in this Appendix.

UNIFIED SOIL CLASSIFICATION SYSTEM

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART

COARSE-GRAINED SOILS (more than 50% of material is larger than No. 200 sieve size.)			
GRAVELS More than 50% of coarse fraction larger than No. 4 sieve size	Clean Gravels (Less than 5% fines)	GW	Well-graded gravels, gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
	Gravels with fines (More than 12% fines)	GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
SANDS 50% or more of coarse fraction smaller than No. 4 sieve size	Clean Sands (Less than 5% fines)	SW	Well-graded sands, gravelly sands, little or no fines
		SP	Poorly graded sands, gravelly sands, little or no fines
	Sands with fines (More than 12% fines)	SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS (50% or more of material is smaller than No. 200 sieve size.)			
SILTS AND CLAYS Liquid limit less than 50%		ML	Inorganic silts and very fine sands, rock flour, silty of clayey fine sands or clayey silts with slight plasticity
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		OL	Organic silts and organic silty clays of low plasticity
SILTS AND CLAYS Liquid limit 50% or greater		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS		PT	Peat and other highly organic soils

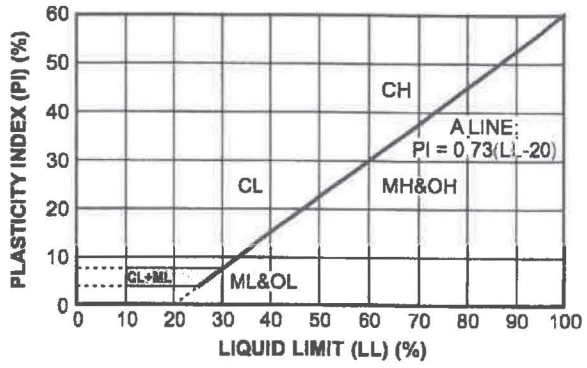
CONSISTENCY CLASSIFICATION

Description	Blows per Foot
Granular Soils	
Very Loose	< 5
Loose	5 – 15
Medium Dense	16 – 40
Dense	41 – 65
Very Dense	> 65
Cohesive Soils	
Very Soft	< 3
Soft	3 – 5
Firm	6 – 10
Stiff	11 – 20
Very Stiff	21 – 40
Hard	> 40

GRAIN SIZE CLASSIFICATION

Grain Type	*Standard Sieve Size*	*Grain Size in Millimeters*
Boulders	Above 12 inches	Above 305
Cobbles	12 to 13 inches	305 to 76.2
Gravel	3 inches to No. 4	76.2 to 4.76
Coarse-grained	3 to ¾ inches	76.2 to 19.1
Fine-grained	¾ inches to No. 4	19.1 to 4.76
Sand	No. 4 to No. 200	4.76 to 0.074
Coarse-grained	No. 4 to No. 10	4.76 to 2.00
Medium-grained	No. 10 to No. 40	2.00 to 0.042
Fine-grained	No. 40 to No. 200	0.042 to 0.074
Silt and Clay	Below No. 200	Below 0.074

PLASTICITY CHART



California Modified Split Spoon Sampler

Standard Penetration Split Spoon Sampler

Log of Boring B1

Project: Dutch Bros.

Project No: 112-21146

Client: Dutch Bros, LLC

Figure No.: A-1

Location: 22115 Barton Road, Grand Terrace, California

Logged By: Gabriel Ramirez

Depth to Water> Not Encountered

Initial: N/A

At Completion: N/A

Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.
0		Ground Surface				
0		***SANDY SILT (ML)*** Very loose, fine- to medium-grained; dark brown, moist, drills easily Medium dense below 12 inches				
2						20
4						
6			119.3	14.5		30
8						
10			117.2	16.9		28
12						
14		***SILTY SAND (SM)*** Medium dense, fine- to medium-grained; dark brown, moist, drills easily		11.0		15
16						
18		Water not encountered Boring backfilled with soil cuttings				
20				11.2		26

Penetration Test blows/ft: 20, 40, 60

Water Content (%): 10, 20, 30, 40

Drill Method: Hollow Stem

Drill Date: 1-4-22

Drill Rig: CME 75

Krazan and Associates

Hole Size: 5½ Inches

Driller: Whitcomb Drilling, Inc.

Elevation: 20 Feet

Sheet: 1 of 1

Log of Boring B2

Project: Dutch Bros.

Project No: 112-21146

Client: Dutch Bros, LLC

Figure No.: A-2

Location: 22115 Barton Road, Grand Terrace, California

Logged By: Gabriel Ramirez

Depth to Water> Not Encountered

Initial: N/A

At Completion: N/A

Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.
0		Ground Surface				
0		***SANDY SILT (ML)*** Very loose, fine- to medium-grained; dark brown, moist, drills easily Medium dense below 12 inches				
6			109.6	15.5		37
8		Becomes dense below 8½ feet				
10			119.6	11.9		55
10		End of Borehole				
18		Water not encountered Boring backfilled with soil cuttings				

Penetration Test blows/ft: 20, 40, 60

Water Content (%): 10, 20, 30, 40

Drill Method: Hollow Stem

Drill Date: 1-4-22

Drill Rig: CME 75

Krazan and Associates

Hole Size: 5½ Inches

Driller: Whitcomb Drilling, Inc.

Elevation: 10 Feet

Sheet: 1 of 1

Log of Boring B3

Project: Dutch Bros.

Project No: 112-21146

Client: Dutch Bros, LLC

Figure No.: A-3

Location: 22115 Barton Road, Grand Terrace, California

Logged By: Gabriel Ramirez

Depth to Water> Not Encountered

Initial: N/A

At Completion: N/A

Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.
0		Ground Surface				
0		***SANDY SILT (ML)*** Very loose, fine- to medium-grained; brown, damp, drills easily Medium dense below 12 inches				
6			110.1	9.2		21
10			131.4	3.5		23
10		End of Borehole				
18		Water not encountered Boring backfilled with soil cuttings				

Penetration Test blows/ft: 20, 40, 60

Water Content (%): 10, 20, 30, 40

Drill Method: Hollow Stem

Drill Date: 1-4-22

Drill Rig: CME 75

Krazan and Associates

Hole Size: 5½ Inches

Driller: Whitcomb Drilling, Inc.

Elevation: 10 Feet

Sheet: 1 of 1

Log of Boring B4

Project: Dutch Bros.

Project No: 112-21146

Client: Dutch Bros, LLC

Figure No.: A-4

Location: 22115 Barton Road, Grand Terrace, California

Logged By: Gabriel Ramirez

Depth to Water> Not Encountered

Initial: N/A

At Completion: N/A

Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.
0		Ground Surface				
0		***SANDY SILT (ML)*** Very loose, fine- to medium-grained; dark brown, moist, drills easily Loose below 12 inches				
6			115.3	9.1		11
8		Becomes medium dense below 8½ feet				
10			117.7	9.6		20
10		End of Borehole				
18		Water not encountered Boring backfilled with soil cuttings				

Penetration Test blows/ft: 20, 40, 60

Water Content (%): 10, 20, 30, 40

Drill Method: Hollow Stem

Drill Date: 1-4-22

Drill Rig: CME 75

Krazan and Associates

Hole Size: 5½ Inches

Driller: Whitcomb Drilling, Inc.

Elevation: 10 Feet

Sheet: 1 of 1

Log of Boring B5

Project: Dutch Bros.

Project No: 112-21146

Client: Dutch Bros, LLC

Figure No.: A-5

Location: 22115 Barton Road, Grand Terrace, California

Logged By: Gabriel Ramirez

Depth to Water> Not Encountered

Initial: N/A

At Completion: N/A

Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.
0		Ground Surface				
0		***SANDY SILT (ML)*** Very loose, fine- to medium-grained; brown, damp, drills easily Loose below 12 inches				
6			115.1	7.3	■	12
8		Becomes medium dense and moist below 8½ feet				
10			117.1	13.1	■	16
10		End of Borehole				
18		Water not encountered Boring backfilled with soil cuttings				

Penetration Test blows/ft: 20 40 60

Water Content (%): 10 20 30 40

Drill Method: Hollow Stem

Drill Date: 1-4-22

Drill Rig: CME 75

Krazan and Associates

Hole Size: 5½ Inches

Driller: Whitcomb Drilling, Inc.

Elevation: 10 Feet

Sheet: 1 of 1

Log of Boring B6

Project: Dutch Bros.

Project No: 112-21146

Client: Dutch Bros, LLC

Figure No.: A-6

Location: 22115 Barton Road, Grand Terrace, California

Logged By: Gabriel Ramirez

Depth to Water> Not Encountered **Initial:** N/A **At Completion:** N/A

SUBSURFACE PROFILE			SAMPLE				Penetration Test blows/ft	Water Content (%)
Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.	20 40 60	10 20 30 40
0		Ground Surface						
0		***SANDY SILT (ML)*** Very loose, fine- to medium-grained; brown, damp, drills easily Medium dense below 12 inches						
6			116.2	7.2		23		
10			120.9	10.7		24		
10		End of Borehole						
18		Water not encountered Boring backfilled with soil cuttings						

Drill Method: Hollow Stem

Drill Date: 1-4-22

Drill Rig: CME 75

Krazan and Associates

Hole Size: 5½ Inches

Driller: Whitcomb Drilling, Inc.

Elevation: 10 Feet

Sheet: 1 of 1

Sieve Analysis

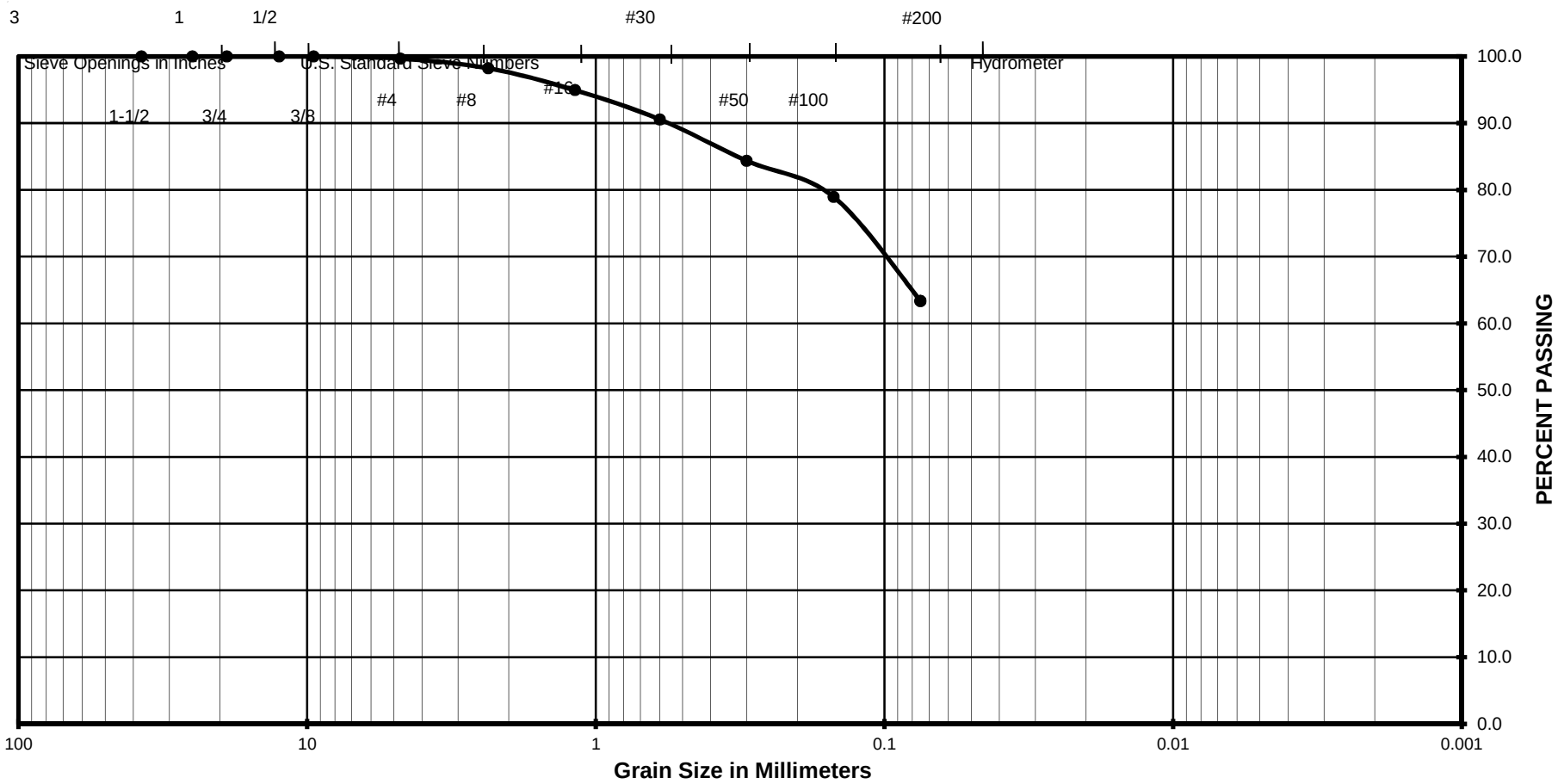
Project Number	:	11221146
Project Name	:	Dutch Bros Grand Terrace
Date	:	1/31/2022
Sample Location	:	B-1 @ 5'
Soil Classification	:	ML

Wet Weight	:	714.50
Dry Weight	:	714.50
Moisture Content	:	0%

Sieves Size/Number	Sieve Size, mm	Retained Weight	Retained. %	Cum % Retained	Cum. % Passing.
1-1/2"	37.50				100.0
1"	25.00				100.0
3/4"	19.00				100.0
1/2"	12.50				100.0
3/8"	9.50				100.0
#4	4.75	2.4	0.3	0.3	99.7
#8	2.36	10.2	1.4	1.8	98.2
#16	1.18	23.5	3.3	5.1	94.9
#30	0.60	31.3	4.4	9.4	90.6
#50	0.30	44.3	6.2	15.6	84.4
#100	0.15	38.5	5.4	21.0	79.0
#200	0.08	111.4	15.6	36.6	63.4

Krazan Testing Laboratory

Grain Size Analysis



Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Dutch Bros Grand Terrace
Project Number	11221146
Soil Classification	ML
Sample Number	B-1 @ 5'

Krazan Testing Laboratory

Sieve Analysis

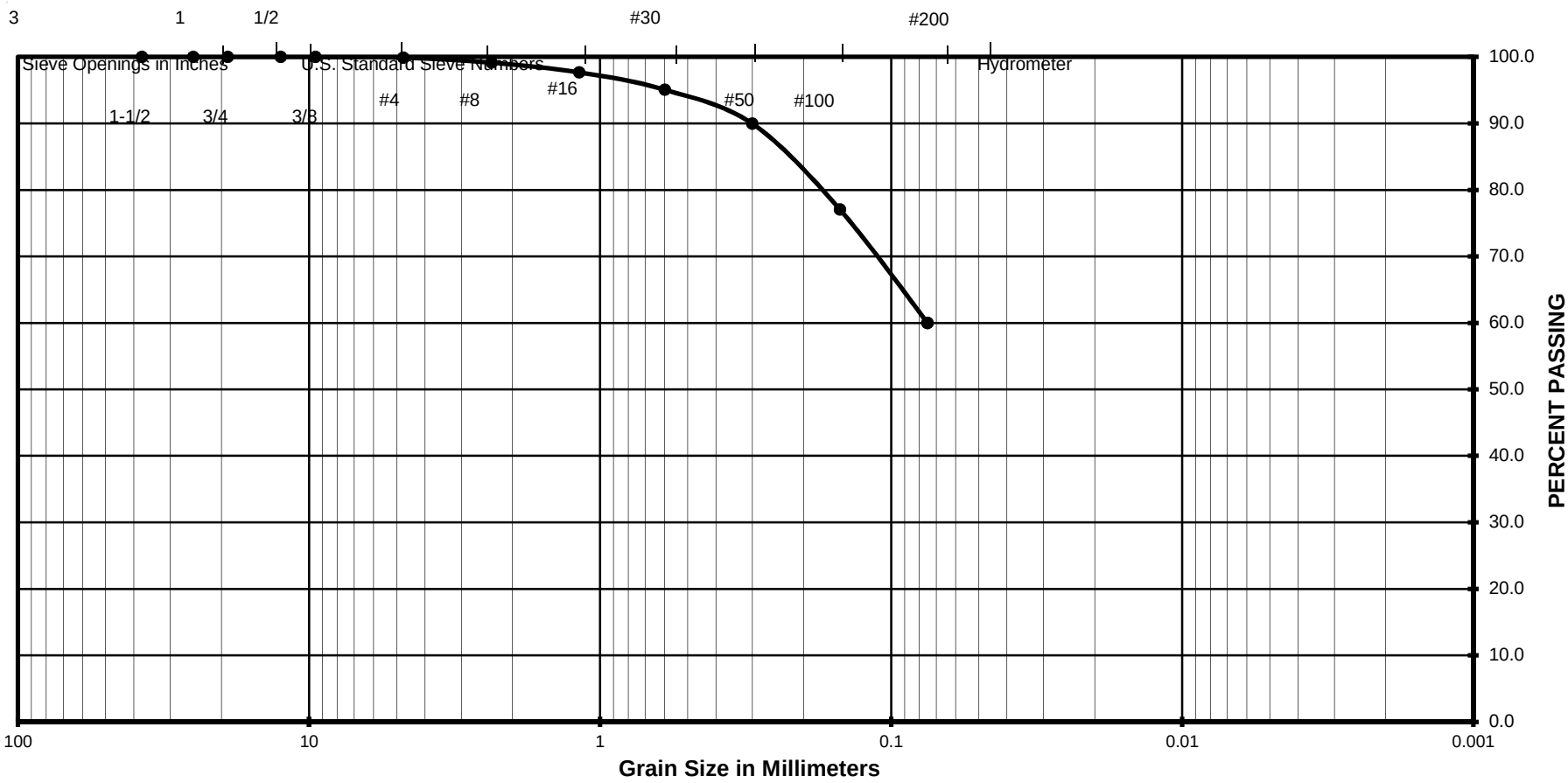
Project Number	:	11221146
Project Name	:	Dutch Bros Grand Terrace
Date	:	1/31/2022
Sample Location	:	B-1 @ 10'
Soil Classification	:	ML

Wet Weight	:	662.00
Dry Weight	:	662.00
Moisture Content	:	0%

Sieves Size/Number	Sieve Size, mm	Retained Weight	Retained. %	Cum % Retained	Cum. % Passing.
1-1/2"	37.50				100.0
1"	25.00				100.0
3/4"	19.00				100.0
1/2"	12.50				100.0
3/8"	9.50				100.0
#4	4.75	0.8	0.1	0.1	99.9
#8	2.36	5.0	0.8	0.9	99.1
#16	1.18	9.6	1.5	2.3	97.7
#30	0.60	17.3	2.6	4.9	95.1
#50	0.30	33.8	5.1	10.0	90.0
#100	0.15	85.5	12.9	23.0	77.0
#200	0.08	112.9	17.1	40.0	60.0

Krazan Testing Laboratory

Grain Size Analysis



Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Dutch Bros Grand Terrace
Project Number	11221146
Soil Classification	ML
Sample Number	B-1 @ 10'

Krazan Testing Laboratory

Sieve Analysis

Project Number	:	11221146
Project Name	:	Dutch Bros Grand Terrace
Date	:	1/31/2022
Sample Location	:	B-1 @ 15'
Soil Classification	:	SM

Wet Weight	:	479.90
Dry Weight	:	479.90
Moisture Content	:	0%

Sieves Size/Number	Sieve Size, mm	Retained Weight	Retained. %	Cum % Retained	Cum. % Passing.
1-1/2"	37.50				100.0
1"	25.00				100.0
3/4"	19.00				100.0
1/2"	12.50				100.0
3/8"	9.50	2.1	0.4	0.4	99.6
#4	4.75	5.8	1.2	1.6	98.4
#8	2.36	34.2	7.1	8.8	91.2
#16	1.18	60.5	12.6	21.4	78.6
#30	0.60	63.8	13.3	34.7	65.3
#50	0.30	66.7	13.9	48.6	51.4
#100	0.15	53.7	11.2	59.8	40.2
#200	0.08	44.7	9.3	69.1	30.9

Krazan Testing Laboratory

Grain Size Analysis



Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Dutch Bros Grand Terrace
Project Number	11221146
Soil Classification	SM
Sample Number	B-1 @ 15'

Krazan Testing Laboratory

Sieve Analysis

Project Number	:	11221146
Project Name	:	Dutch Bros Grand Terrace
Date	:	1/31/2022
Sample Location	:	B-1 @ 20'
Soil Classification	:	SM

Wet Weight	:	479.50
Dry Weight	:	479.50
Moisture Content	:	0%

Sieves Size/Number	Sieve Size, mm	Retained Weight	Retained. %	Cum % Retained	Cum. % Passing.
1-1/2"	37.50				100.0
1"	25.00				100.0
3/4"	19.00				100.0
1/2"	12.50				100.0
3/8"	9.50	3.9	0.8	0.8	99.2
#4	4.75	7.5	1.6	2.4	97.6
#8	2.36	28.3	5.9	8.3	91.7
#16	1.18	46.7	9.7	18.0	82.0
#30	0.60	52.0	10.8	28.9	71.1
#50	0.30	52.9	11.0	39.9	60.1
#100	0.15	31.6	6.6	46.5	53.5
#200	0.08	62.6	13.1	59.5	40.5

Krazan Testing Laboratory

Grain Size Analysis



Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Dutch Bros Grand Terrace
Project Number	11221146
Soil Classification	SM
Sample Number	B-1 @ 20'

Krazan Testing Laboratory

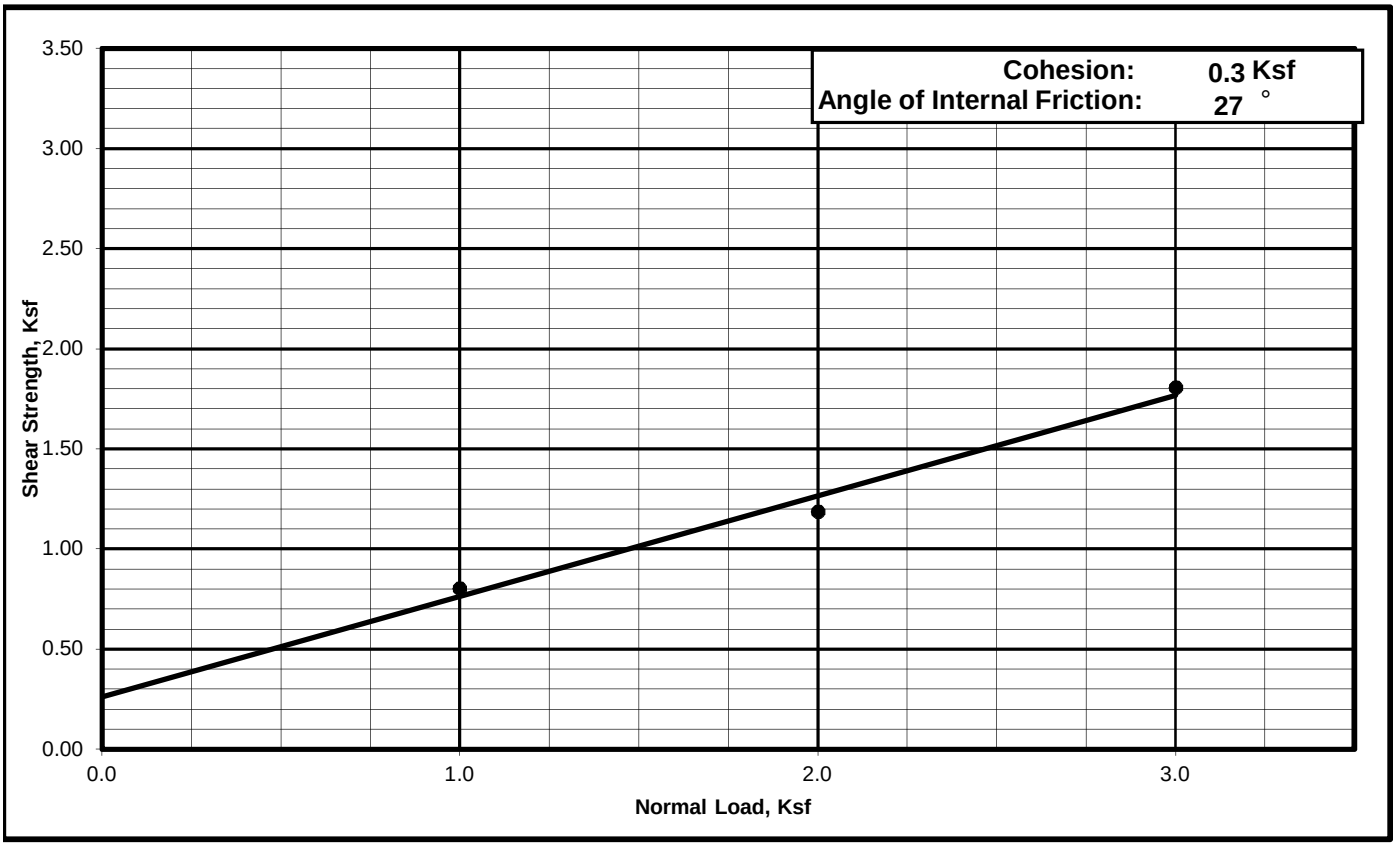
Direct Shear of Consolidated, Drained Soils
ASTM D - 3080 / AASHTO T - 236

Project Number	: 11221146
Project Name	: Dutch Bros Grand Terrace
Date	: 1/31/2022
Sample Location	: B-1 @ 5'
Soil Classification	: ML
Sample Surface Area	: 0.0289

STRESS DISPLACEMENT DATA

Lat. Disp. (in.)	Normal Load		
	1000	2000	3000
0	0	0	0
0.030	13.5	44.9	64.9
0.060	24.5	56.8	84.6
0.090	39.4	69.3	100
0.120	44.8	73.5	121.8
0.150	51.6	88.4	132.4
0.180	56.9	96.4	139.5
0.210	59.2	103.6	144.5
0.240	70	105.6	159.6
0.270	61	103.6	162
0.300			160
0.330			
0.360			

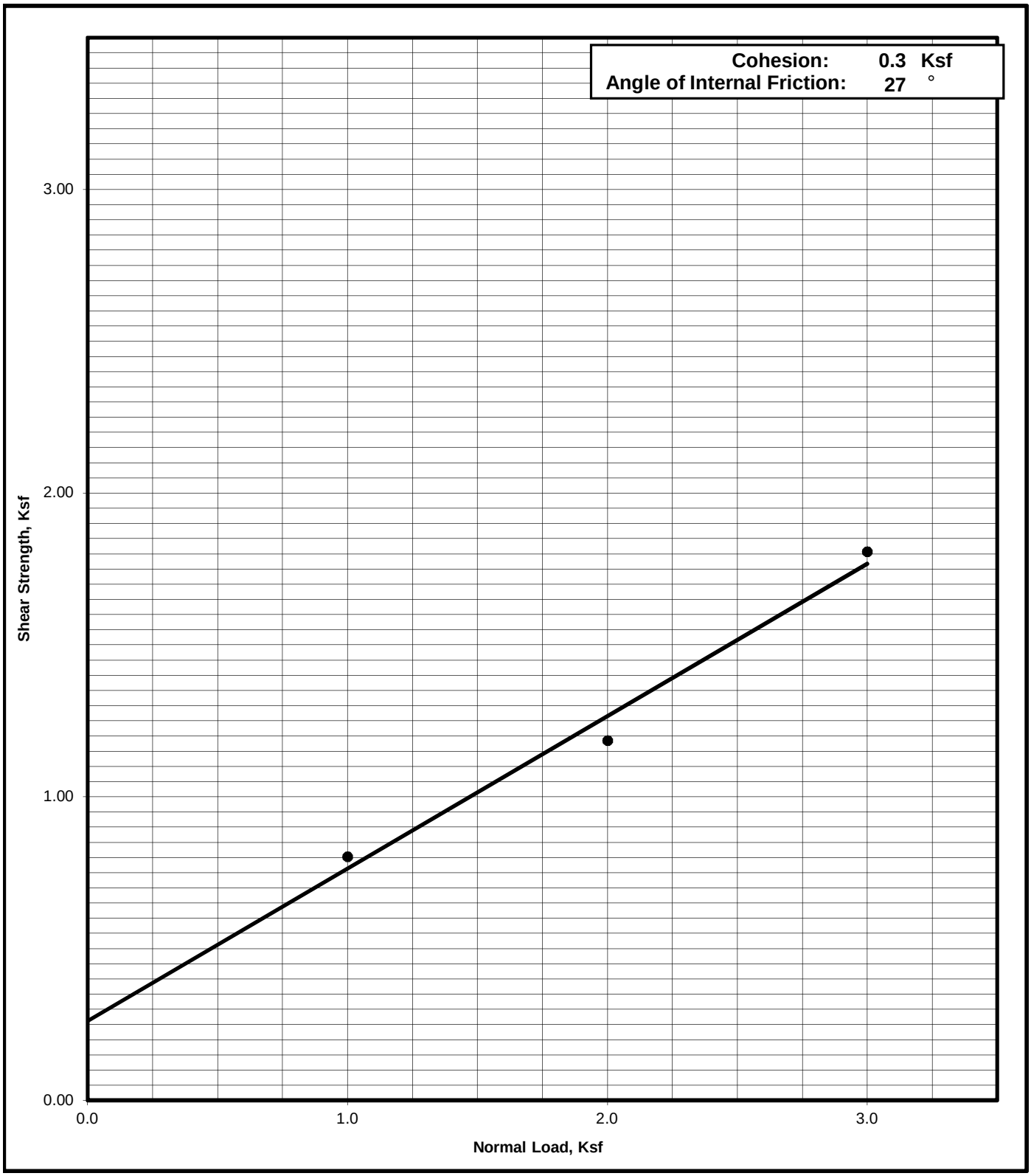
Normal Load psf	Shear force lbs	Shear Stress psf
1000	23.2	803
2000	34.3	1185
3000	52.2	1807



Krazan Testing Laboratory

Shear Strength Diagram (Direct Shear)
ASTM D - 3080 / AASHTO T - 236

Project Number	Boring No. & Depth	Soil Type	Date
11221146	B-1 @ 5'	ML	1/31/2022



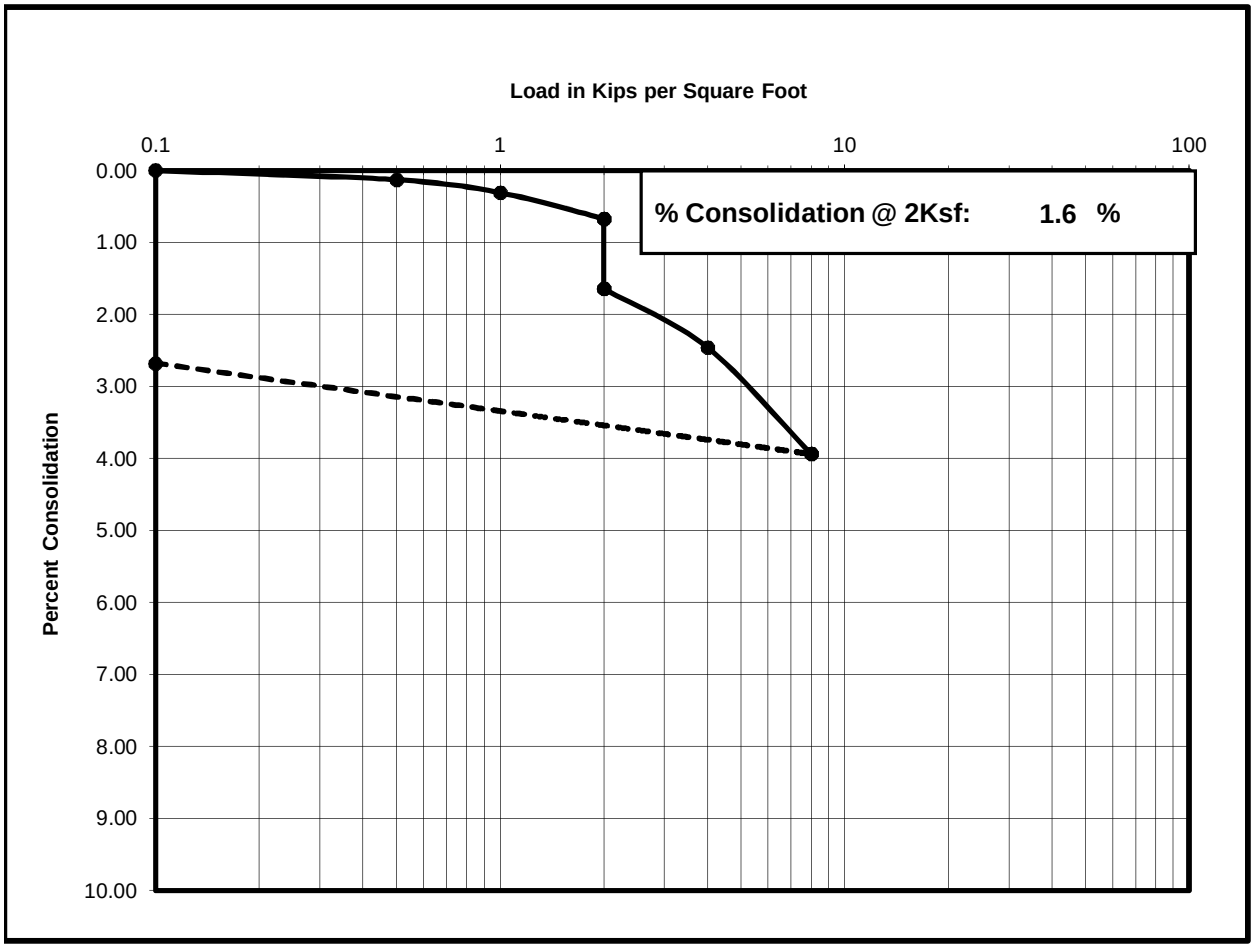
Krazan Testing Laboratory

One Dimensional Consolidation Properties of Soil

ASTM D - 2435 / AASHTO T - 216

Project Number : 11221146
Project Name : Dutch Bros Grand Terrace
Date : 1/31/2022
Sample Location : B-1 @ 5'
Soil Classification : ML
Sample Condition : Undisturbed

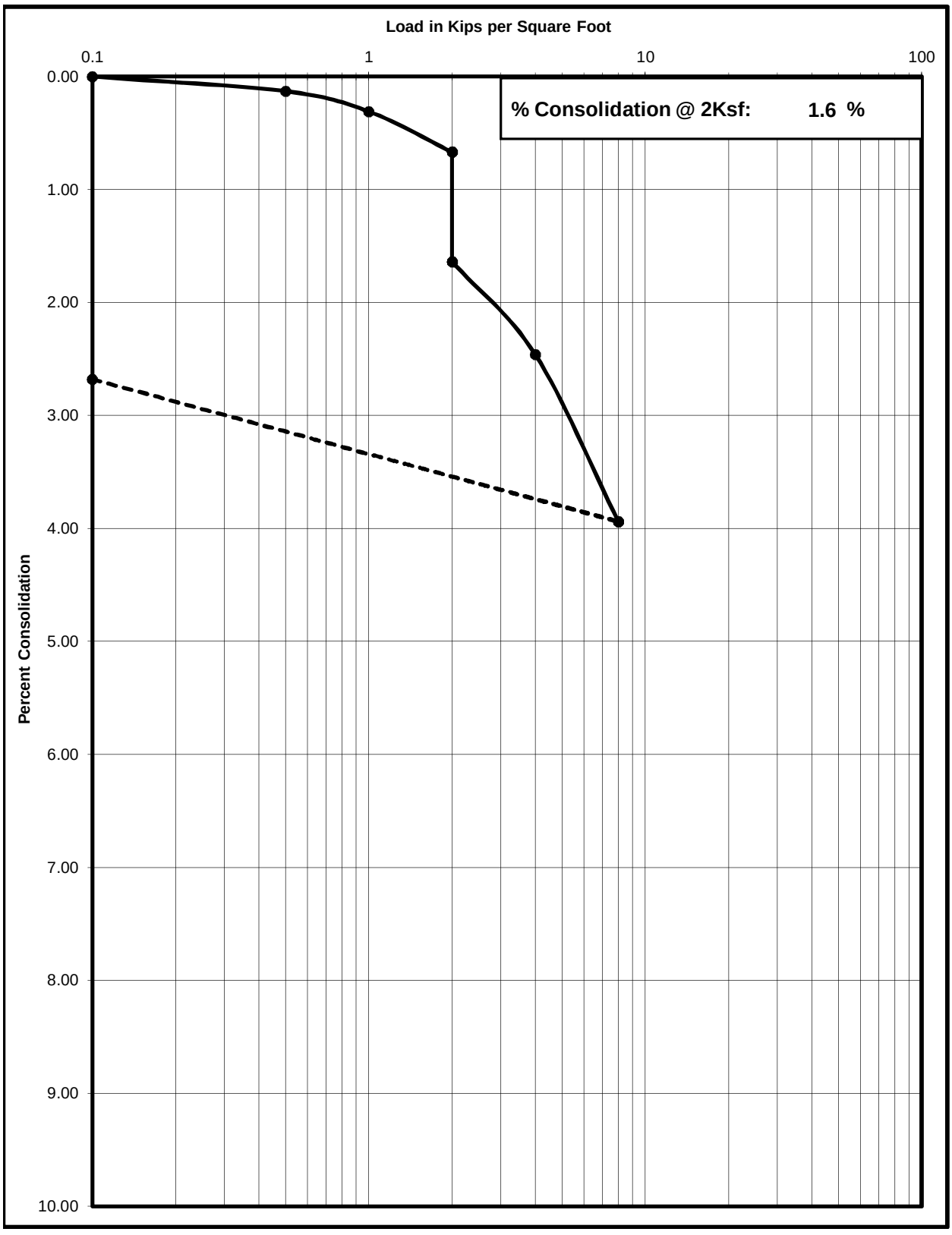
LOAD (ksf)	Reading	% Consolidation
0.1	0	--
0.5	0.0013	0.13
1	0.0031	0.31
2	0.0067	0.67
Satur.	0.0164	1.64
4	0.0246	2.46
8	0.0394	3.94
0.1	0.0268	2.68



Krazan Testing Laboratory

Consolidation Test

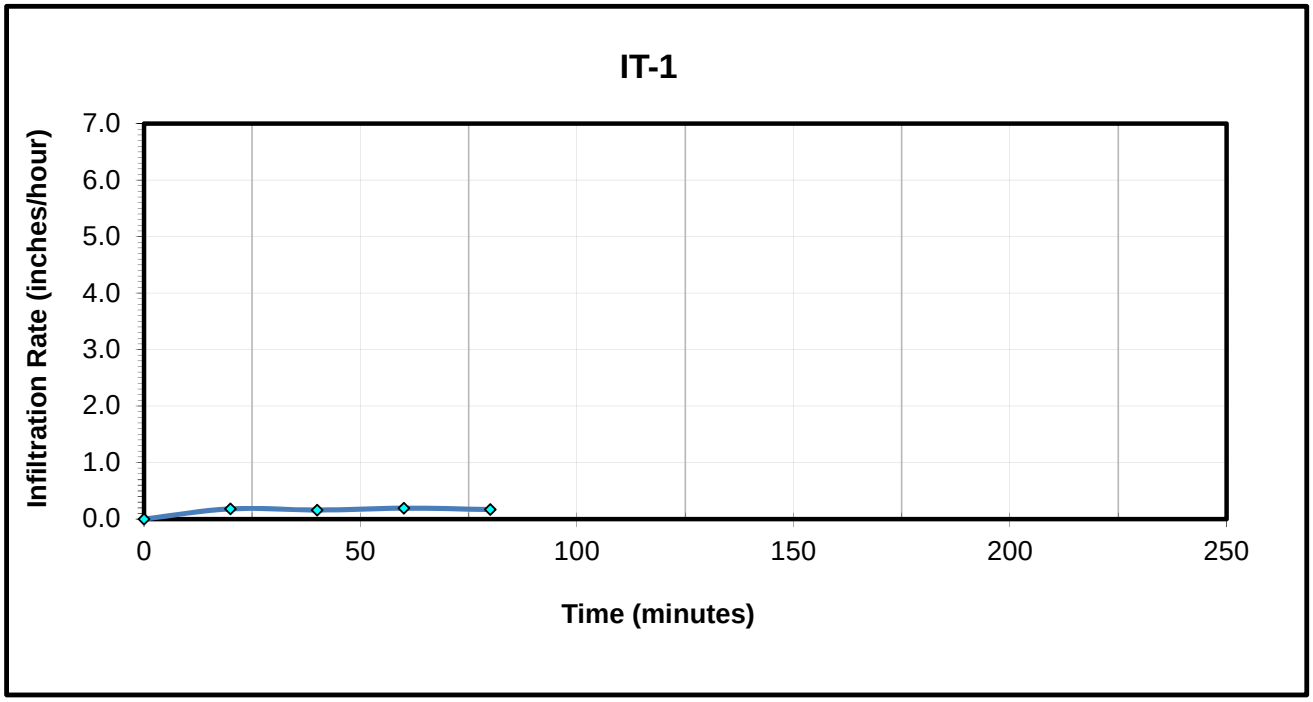
Project No	Boring No. & Depth	Date	Soil Classification
11221146	B-1 @ 5'	1/31/2022	ML



Krazan Testing Laboratory

RESULTS OF INFILTRATION TESTS - REVERSE BOREHOLE						
Project #	**11220146**				**Date**	**1/5/2022**
Project Name	Dutch Bros Grand Terrace					
Project Address	22115 Barton Road, Grand Terrace, CA					
Test No:	IT-1	**Total Depth (in.)**		60	**Test Size (in)**	8
Depth To Water	>50'	**Soil Classification**		SM		

Reading	Elasped Time(min.)	Incremental Time (min.)	Initial Depth To Water(in.)	Final Depth To Water(in.)	Incremental Fall of Water(in.)	Incremental Infiltration Rate (in/hr)
Start	0	0.00		3.00	--	--
1	20.00	20.00	3.00	4.75	1.75	0.18
2	40.00	20.00	4.75	6.25	1.50	0.16
3	60.00	20.00	6.25	8.00	1.75	0.19
4	80.00	20.00	8.00	9.50	1.50	0.17
5	100.00	20.00	9.50	11.00	1.50	0.17
6	120.00	20.00	11.00	12.50	1.50	0.18
7	140.00	20.00	12.50	14.00	1.50	0.18
8	160.00	20.00	14.00	15.50	1.50	0.19
	Infiltration Rate in Inches per Hour					**0.16**



ANAHEIM TEST LAB, INC

196 Technology Drive, Unit D
Irvine, CA 92618
Phone (949)336-6544

DATE: 1/18/2022

Krazan & Associates, Inc.
1100 Olympic Drive, Ste. 103
Corona, CA 92888

P.O. NO: Verbal

LAB NO: C-5594

SPECIFICATION: CTM-643/417/422

MATERIAL: Soil

Project No: 11221146
Project Name: Dutch Bros, Grand Terrace
Sample ID: B-1 @ 0-5'

ANALYTICAL REPORT

CORROSION SERIES
SUMMARY OF DATA

pH	MIN. RESISTIVITY per CT. 643 ohm-cm	SOLUBLE SULFATES per CT. 417 ppm	SOLUBLE CHLORIDES per CT. 422 ppm
7.5	2,960	115	47

RESPECTFULLY SUBMITTED

WES BRIDGER LAB MANAGER

Appendix B

General Earthwork Specifications

APPENDIX B

EARTHWORK SPECIFICATIONS

GENERAL

When the text of the report conflicts with the general specifications in this appendix, the recommendations in the report have precedence.

SCOPE OF WORK: These specifications and applicable plans pertain to and include all earthwork associated with the site rough grading, including but not limited to the furnishing of all labor, tools, and equipment necessary for site clearing and grubbing, stripping, preparation of foundation materials for receiving fill, excavation, processing, placement and compaction of fill and backfill materials to the lines and grades shown on the project grading plans, and disposal of excess materials.

PERFORMANCE: The Contractor shall be responsible for the satisfactory completion of all earthwork in accordance with the project plans and specifications. This work shall be inspected and tested by a representative of Krazan and Associates, Inc., hereinafter known as the Soils Engineer and/or Testing Agency. Attainment of design grades when achieved shall be certified by the project Civil Engineer. Both the Soils Engineer and the Civil Engineer are the Owner's representatives. If the Contractor should fail to meet the technical or design requirements embodied in this document and on the applicable plans, he shall make the necessary readjustments until all work is deemed satisfactory as determined by both the Soils Engineer and the Civil Engineer. No deviation from these specifications shall be made except upon written approval of the Soils Engineer, Civil Engineer or project Architect.

No earthwork shall be performed without the physical presence or approval of the Soils Engineer. The Contractor shall notify the Soils Engineer at least 2 working days prior to the commencement of any aspect of the site earthwork.

The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner and the Engineers harmless from any and all liability, real or alleged, in connection with the performance of work on this project, except for liability arising from the sole negligence of the Owner or the Engineers.

TECHNICAL REQUIREMENTS: All compacted materials shall be densified to a density not less than 95 percent relative compaction based on ASTM Test Method D1557 or CAL-216, as specified in the technical portion of the Soil Engineer's report. The location and frequency of field density tests shall be as determined by the Soils Engineer. The results of these tests and compliance with these specifications shall be the basis upon which satisfactory completion of work will be judged by the Soils Engineer.

SOILS AND FOUNDATION CONDITIONS: The Contractor is presumed to have visited the site and to have familiarized himself with existing site conditions and the contents of the data presented in the soil report.

The Contractor shall make his own interpretation of the data contained in said report, and the Contractor shall not be relieved of liability under the Contract documents for any loss sustained as a result of any variance between conditions indicated by or deduced from said report and the actual conditions encountered during the progress of the work.

DUST CONTROL: The work includes dust control as required for the alleviation or prevention of any dust nuisance on or about the site or the borrow area, or off-site if caused by the Contractor's operation either during the performance of the earthwork or resulting from the conditions in which the Contractor leaves the site. The Contractor shall assume all liability, including court costs of codefendants, for all claims related to dust or windblown materials attributable to his work.

SITE PREPARATION

Site preparation shall consist of site clearing and grubbing and the preparations of foundation materials for receiving fill.

CLEARING AND GRUBBING: The Contractor shall accept the site in this present condition and shall demolish and/or remove from the area of designated project earthwork all structures, both surface and subsurface, trees, brush, roots, debris, organic matter, and all other matter determined by the Soils Engineer to be deleterious or otherwise unsuitable. Such materials shall become the property of the Contractor and shall be removed from the site.

Tree root systems in proposed building areas should be removed to a minimum depth of 3 feet and to such an extent which would permit removal of all roots larger than 1 inch. Tree roots removed in parking areas may be limited to the upper 1½ feet of the ground surface. Backfill of tree root excavations should not be permitted until all exposed surfaces have been inspected and the Soils Engineer is present for the proper control of backfill placement and compaction. Burning in areas which are to receive fill materials shall not be permitted.

SUBGRADE PREPARATION: Surfaces to receive Engineered Fill, building or slab loads shall be prepared as outlined above, excavated/scarified to a depth of 12 inches, moisture-conditioned as necessary, and compacted to 95 percent relative compaction.

Loose soil areas, areas of uncertified fill, and/or areas of disturbed soils shall be moisture-conditioned as necessary and recompacted to 95 percent relative compaction. All ruts, hummocks, or other uneven surface features shall be removed by surface grading prior to placement of any fill materials. All areas which are to receive fill materials shall be approved by the Soils Engineer prior to the placement of any of the fill material.

EXCAVATION: All excavation shall be accomplished to the tolerance normally defined by the Civil Engineer as shown on the project grading plans. All over-excavation below the grades specified shall be backfilled at the Contractor's expense and shall be compacted in accordance with the applicable technical requirements.

FILL AND BACKFILL MATERIAL: No material shall be moved or compacted without the presence of the Soils Engineer. Material from the required site excavation may be utilized for construction site fills provided prior approval is given by the Soils Engineer. All materials utilized for constructing site fills shall be free from vegetation or other deleterious matter as determined by the Soils Engineer.

PLACEMENT, SPREADING AND COMPACTION: The placement and spreading of approved fill materials and the processing and compaction of approved fill and native materials shall be the responsibility of the Contractor. However, compaction of fill materials by flooding, ponding, or jetting shall not be permitted unless specifically approved by local code, as well as the Soils Engineer.

Both cut and fill areas shall be surface-compacted to the satisfaction of the Soils Engineer prior to final acceptance.

SEASONAL LIMITS: No fill material shall be placed, spread, or rolled while it is frozen or thawing or during unfavorable wet weather conditions. When the work is interrupted by heavy rains, fill operations shall not be resumed until the Soils Engineer indicates that the moisture-content and density of previously placed fill are as specified.

Appendix C

General Paving Specifications

APPENDIX C

PAVEMENT SPECIFICATIONS

1. DEFINITIONS - The term "pavement" shall include asphalt concrete surfacing, untreated aggregate base, and aggregate subbase. The term "subgrade" is that portion of the area on which surfacing, base, or subbase is to be placed.

The term “Standard Specifications”: hereinafter referred to as the January 1999 Standard Specifications of the State of California, Department of Transportation, and the "Materials Manual" is the Materials Manual of Testing and Control Procedures, State of California, Department of Public Works, Division of Highways. The term "relative compaction" refers to the field density expressed as a percentage of the maximum laboratory density as defined in the ASTM D1557-00.

2. SCOPE OF WORK - This portion of the work shall include all labor, materials, tools, and equipment necessary for, and reasonably incidental to the completion of the pavement shown on the plans and as herein specified, except work specifically notes as "Work Not Included."

3. PREPARATION OF THE SUBGRADE - The Contractor shall prepare the surface of the various subgrades receiving subsequent pavement courses to the lines, grades, and dimensions given on the plans. The upper 12 inches of the soil subgrade beneath the pavement section shall be compacted to a minimum relative compaction of 90 percent. The finished subgrades shall be tested and approved by the Geotechnical Engineer prior to the placement of additional pavement courses.

4. UNTREATED AGGREGATE BASE - The aggregate base material shall be spread and compacted on the prepared subgrade in conformity with the lines, grades, and dimensions shown on the plans. The aggregate base material shall conform to the requirements of Section 26 of the Standard Specifications for Class 2 material, ¾-inches maximum size. The aggregate base material shall be compacted to a minimum relative compaction of 95 percent. The aggregate base material shall be spread and compacted in accordance with Section 26 of the Standard Specifications. The aggregate base material shall be spread in layers not exceeding 6 inches and each layer of aggregate material course shall be tested and approved by the Geotechnical Engineer prior to the placement of successive layers.

5. AGGREGATE SUBBASE - The aggregate subbase shall be spread and compacted on the prepared subgrade in conformity with the lines, grades, and dimensions shown on the plans. The aggregate subbase material shall conform to the requirements of Section 25 of the Standard Specifications for Class II material. The aggregate subbase material shall be compacted to a minimum relative compaction of 95 percent, and it shall be spread and compacted in accordance with Section 25 of the Standard Specifications. Each layer of aggregate subbase shall be tested and approved by the Geotechnical Engineer prior to the placement of successive layers.

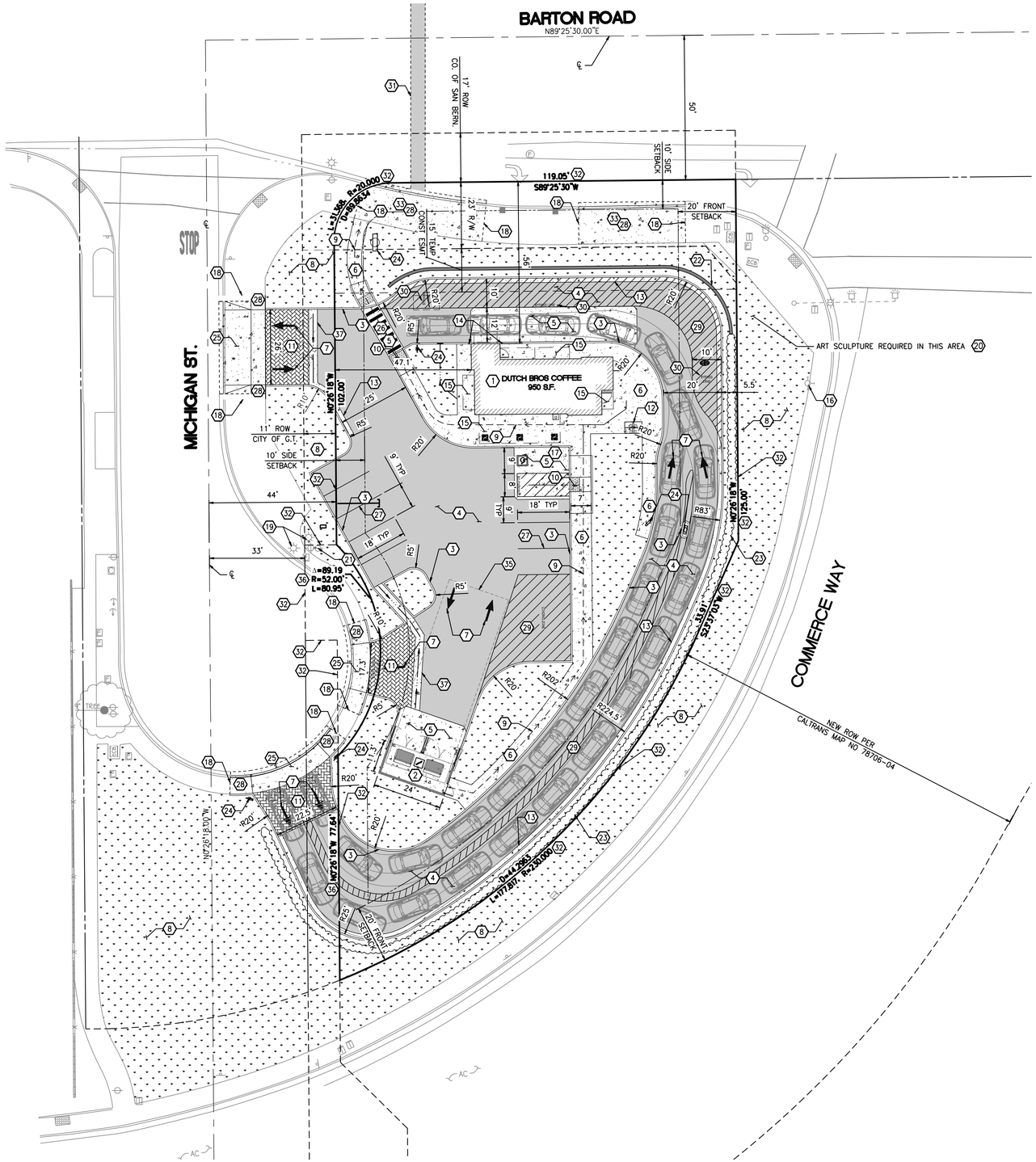
6. ASPHALT CONCRETE SURFACING - Asphalt concrete surfacing shall consist of a mixture of mineral aggregate and paving grade asphalt, mixed at a central mixing plant and spread and compacted on a prepared base in conformity with the lines, grades, and dimensions shown on the plans. The viscosity grade of the asphalt shall be AR-8000. The mineral aggregate shall be Type B, ½-inch or ¾-inch maximum, medium grading, for the wearing course and ¾-inch maximum, medium grading for the base course, and shall conform to the requirements set forth in Section 39 of the Standard Specifications. The drying, proportioning, and mixing of the materials shall conform to Section 39.

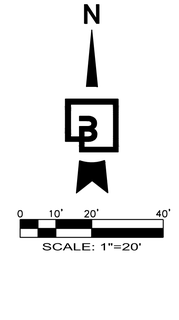
The prime coat, spreading and compacting equipment, and spreading and compacting the mixture shall conform to the applicable chapters of Section 39, with the exception that no surface course shall be placed when the atmospheric temperature is below 50 degrees F. The surfacing shall be rolled with a combination steel-wheel and pneumatic rollers, as described in Section 39-6. The surface course shall be placed with an approved self-propelled mechanical spreading and finishing machine.

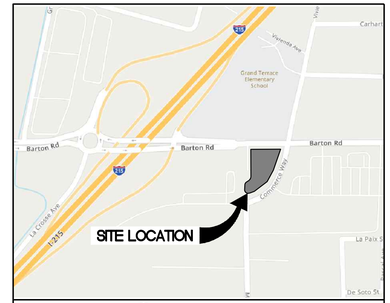
7. FOG SEAL COAT - The fog seal (mixing type asphalt emulsion) shall conform to and be applied in accordance with the requirements of Section 37.

APPENDIX E: PRELIMINARY SITE PLAN AND PRELIMINARY GRADING PLAN

DUTCH BROS. COFFEE - CA5204, GRAND TERRACE, CA
PRELIMINARY SITE PLAN







CONSTRUCTION NOTES:

1. PROPOSED DUTCH BROS COFFEE, REFER TO ARCHITECTURAL PLANS FOR DETAILS.
2. PROPOSED TRASH ENCLOSURE WITH CONCRETE PAD, REFER TO ARCHITECTURAL PLANS FOR DETAILS.
3. PROPOSED CONCRETE BARRIER CURB, TYPICAL.
4. PROPOSED ASPHALT PAVEMENT.
5. PROPOSED CONCRETE PAVEMENT.
6. PROPOSED ON-SITE CONCRETE SIDEWALK (WIDTH VARIES), TYPICAL.
7. PROPOSED PAVEMENT TRAFFIC MARKINGS, TYPICAL.
8. PROPOSED LANDSCAPE AREA, TYPICAL. SEE LANDSCAPING DRAWINGS FOR DIMENSIONS AND DETAILS
9. ACCESSIBLE PATH, TYPICAL.
10. PROPOSED ADA ACCESSIBLE RAMP WITH DETECTABLE WARNING STRIP TO CITY OF GRAND TERRACE STANDARDS.
11. PROPOSED DECORATIVE PAVING, REFER TO ARCHITECTURAL PLANS FOR DETAILS.
12. PROPOSED BIKE RACK- (2) SHORT TERM PARKING SPACES.
13. PROPOSED ON-SITE CURB AND GUTTER.
14. PROPOSED BOLLARD.
15. PROPOSED LOCATION OF BUILDING CANOPY AND AWNINGS. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
16. EXISTING FIRE HYDRANT TO REMAIN AND PROTECT DURING CONSTRUCTION.
17. PROPOSED ACCESSIBLE PARKING SPACE. SYMBOL OF ACCESSIBILITY AND SIGNAGE PER CITY OF GRAND TERRACE STANDARDS.
18. NEAT SAW CUT LINE. HOT TAR SEAL JOINT, TYPICAL.
19. EXISTING LIGHT POST TO REMAIN.
20. PROPOSED ART SCULPTURE. SEE ARCHITECTURAL DRAWINGS.
21. EXISTING POWER POLE TO REMAIN.
22. PROPOSED 3-FT HEIGHT DECORATIVE BLOCK WALL. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
23. PROPOSED 3-FT TALL LANDSCAPE HEDGE. SEE LANDSCAPING DRAWINGS FOR DETAILS.
24. PROPOSED LOCATION OF SIGN. SEE SIGN DRAWINGS FOR ADDITIONAL DETAILS.
25. PROPOSED DRIVEWAY PER SAN BERNARDINO COUNTY TRANS. DEPT. STANDARD DRAWING 129.
26. PROPOSED CONTINENTAL TYPE PEDESTRIAN CROSSWALK STRIPING.
27. PROPOSED 4" WIDE WHITE REFLECTIVE PAINT PARKING STALL STRIPES, TYPICAL.
28. CONSTRUCT PUBLIC SIDEWALK PER CITY OF GRAND TERRACE STANDARDS.
29. PROPOSED PAVEMENT STRIPING: 4" WIDE, 24" O.C., 45 DEGREE ANGLE, SAFETY WHITE.
30. PROPOSED 12" "BYPASS LANE" PAVEMENT LETTERING.
31. APPROXIMATE LOCATION OF UTILITY TRENCH AND PAVEMENT RESTORATION PER CITY OF GRAND TERRACE STANDARDS.
32. EXISTING PROPERTY LINE, TYP.
33. PROPOSED - EXISTING DRIVEWAYS TO BE REMOVED AND REPLACED WITH SIDEWALK AND CURB AND GUTTER TO CITY OF GRAND TERRACE STANDARDS.
34. NOT USED.
35. 60' CLEAR LANE FOR WASTE HAULER
36. PROPOSED PROPERTY LINE, TYP.
37. PROPOSED VALLEY GUTTER.

LEGEND

- BUILDING LINE
- EXISTING CURB TO REMAIN
- PROPOSED CURB
- PROPOSED LANDSCAPING
- PROPOSED ASPHALT
- PROPOSED CONCRETE

PRELIMINARY NOT FOR CONSTRUCTION

PRELIMINARY SITE PLAN
22115 BARTON ROAD
GRAND TERRACE, CA 92313

Title:

For:

DUTCH BROS

HAL PRATT BB
87814
Not for Construction
LICENSED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA - CIVIL

Scale:	Horizontal	Vertical
	1" = 20'	N/A

Designed	Drawn	Checked	Approved	Date
BB	BB	MTL	HPG	5/9/24

Barghausen
Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 22144

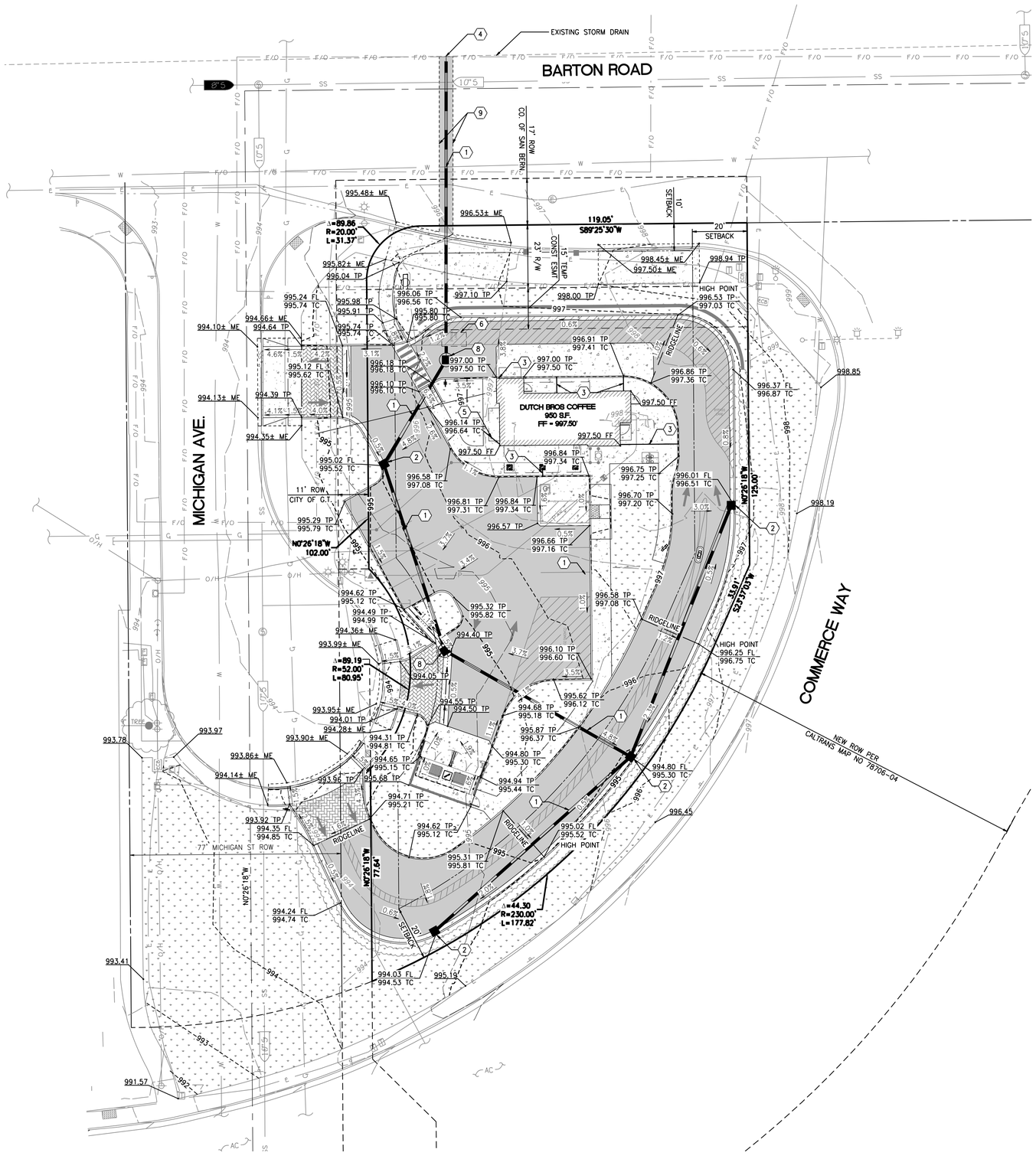
Sheet C10

2019 DB Franchising USA, LLC

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"The name DUTCH BROS. and all associated logos, distinctive designs, content, information, and other materials featured, displayed, contained herein, and made available by Dutch Bros., including but not limited to, the "look and feel" of the establishments and products, all text, images, colors, configurations, graphics, designs, illustrations, photographs, and pictures (collectively, the "Materials") are owned by and/or licensed by DB Franchising USA, LLC and are protected by copyright, trademark, trade dress, patent, and/or other intellectual property rights and unfair competition laws under the United States and foreign laws."

DUTCH BROS. COFFEE - CA5204, GRAND TERRACE, CA
PRELIMINARY GRADING AND DRAINAGE PLAN



UTILITY POTHOLING NOTE:

THE CIRCLED LOCATIONS ARE REQUIRED TO BE POTHOLED TO VERIFY VERTICAL AND HORIZONTAL LOCATION OF EXISTING UTILITY AND/OR POTENTIAL CONFLICTS WITH EXISTING UTILITIES. POTHOLING SHALL BE PERFORMED PRIOR TO INSTALLING ANY PROPOSED UTILITIES. CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. OF ANY CONFLICTS.

N

0 10' 20' 40'

SCALE: 1"=20'



N.T.S VICINITY MAP

ABBREVIATIONS

FL – FLOWLINE
FSH – FLUSH
GP – CURB GUTTER PLATE
ME – MATCH EXISTING ELEVATION
SW – TOP OF SIDEWALK
TC – TOP OF CURB/SIDEWALK
TP – TOP OF PAVEMENT
BOW – BOTTOM FACE OF WALL AT FINISHED GRADE
TOW – TOP FACE OF WALL AT FINISHED GRADE
HP – LOCAL HIGH POINT

GRADING GENERAL NOTES:

1. ALL GRADING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE CURRENT CITY ORDINANCE AND STANDARD PLANS. THE GRADING IS SUBJECT TO THE OBSERVATION AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT.
2. ALL PUBLIC SIDEWALKS BEING CONSTRUCTED WHERE THE EXISTING CURBING IS TO REMAIN SHALL BE CONSTRUCTED AT A CROSS SLOPE OF ±1.5% FROM THE EXISTING BACK OF CURB ELEVATION (CROSS SLOPE MAY REQUIRE TO BE VARIED: 1.25% TO 1.75%). CONTRACTOR SHALL VERIFY CONSTRUCTION FORMS COMPLY WITH ADA STANDARDS PRIOR TO POURING CONCRETE.
3. ALL TRENCHING IN THE RIGHT-OF-WAY SHALL BE REPLACED AND GRADED TO MATCH EXISTING CONDITIONS, CROSS SLOPES SHALL BE MAINTAINED.
4. ALL EXISTING UTILITY STRUCTURES AND ASSOCIATED LIDS THAT FALL WITHIN THE AREA OF WORK SHALL BE ADJUSTED TO FINISHED GRADE ELEVATIONS, AND BE FREE OF ANY ABRUPT VERTICAL CHANGES. NOTIFY ENGINEER OF ANY DISCREPANCIES.
5. ALL PAVEMENT SAWCUTS ARE DESIGNED TO BE REPLACED TO MATCH EXISTING PAVEMENTS AND SHALL BE FLUSH AND FREE OF ANY VERTICAL CHANGES. NOTIFY ENGINEER OF ANY DISCREPANCIES.
6. REFER TO LANDSCAPE PLANS FOR LANDSCAPE PLANTER SOIL GRADING AND SOIL HOLD-DOWN (2" MINIMUM).
7. ALL SPOT ELEVATIONS SHOWN ARE TO FINISH SURFACE (TOP OF ASPHALT OR TOP OF CONCRETE PAVEMENT, NOT TOP OF CURB/SIDEWALK) UNLESS OTHERWISE NOTED.
8. CONTRACTOR TO REMOVE AND CLEAN-UP ANY SPILLED DEBRIS WITHIN THE PUBLIC ROW THROUGHOUT THE GRADING OPERATIONS OF THE PROJECT.
9. ALL GRADING CONSTRUCTION DEBRIS MATERIALS SHALL BE REMOVED AND DISPOSED INTO AN APPROVED DUMP SITE PRIOR TO ANY EXCAVATION OF FILL OPERATIONS AND/OR AS SPECIFIED BY THE SOLID WASTE MANAGEMENT PLAN AND/OR DIRECTED BY PUBLIC WORKS. ALL GRADING ACTIVITIES MUST COMPLY WITH ALL STORMWATER REGULATIONS INCLUDING STABILIZATION OF ANY SOIL DISTURBED AREA. ALL EXCESS DIRT SHALL BE LEVELED AND/OR DISPOSED OF CORRECTLY AND MAY NOT BE TAKEN TO A FACILITY THAT IS NOT LISTED IN THE SWPPP OF SOLID WASTE MANAGEMENT PLAN AND/OR APPROVED BY THE CITY.

GRADING SURFACE NOTES:

PERIMETER ELEVATIONS SHALL BE CONFIRMED PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ENGINEER WITH ANY DISCREPANCIES.

(#) STORM NOTES:

1. PROPOSED 12" PVC STORM DRAIN. MIN 0.5% SLOPE. TYPICAL
2. PROPOSED 24x24 PRECAST STORMWATER CATCHBASIN.
3. PROPOSED 3" SIDEWALK UNDERDRAIN
4. PROPOSED CONNECTION TO PUBLIC STORM DRAIN SYSTEM PER CITY OF GRAND TERRACE STANDARDS.
5. PROPOSED DOWNSPOUT DRAIN TO LANDSCAPED SWALE.
6. PROPOSED 4X6 MODULAR WETLANDS SYSTEM
7. NOT USED.
8. PROPOSED 48" PRECAST CONCRETE MANHOLE
9. PROPOSED UTILITY TRENCH FOR CONNECTION TO BARTON STORM DRAIN. REPLACE EXISTING PAVING IN KIND U.O.N.

STORM DRAIN GENERAL NOTES:

1. ALL STRUCTURE ELEVATIONS SHOWN ARE TO CENTER OF STRUCTURE AT FINISH SURFACE (TOP OF ASPHALT OR TOP OF CONCRETE PAVEMENT, NOT TOP OF CURB/SIDEWALK) UNLESS OTHERWISE NOTED.
2. ALL STORM DRAINAGE STRUCTURES EXPOSED TO TRAFFIC SHALL BE TRAFFIC RATED INCLUDING STRUCTURE, LID, GRATE, ETC.
3. ALL STORM DRAIN PIPING DENOTED AS 'PVC' SHALL CONFORM TO SCHEDULE 40, ASTM D2665.
4. ALL STORM PIPING INSTALL WITH LESS THAN 2 FEET OF COVER SHALL BE BACKFILLED WITH A CONTROLLED DENSITY FILL (SLURRY).
5. ALL STORM DRAINAGE STRUCTURES WITH LIDS EXPOSED TO PEDESTRIAN TRAFFIC SHALL BE HEEL PROOF AND SLIP RESISTANT IN ACCORDANCE WITH ACCESSIBILITY REQUIREMENTS.
6. PROVIDE ALL INCIDENTAL FITTINGS, BENDS, WYES, TEES, COUPLINGS, GASKETS, ETC. REQUIRED TO CONSTRUCT THE INFRASTRUCTURE DEPICTED.
7. ALL TRENCHING SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE PURVEYOR.
8. PROVIDE MARKING TAPE AND LOCATE WIRE WITH ALL TRENCH INSTALLATIONS.
9. CONTRACTOR TO OBTAIN ANY NECESSARY RIGHT-OF-WAY PERMITS IF REQUIRED FOR WORK SHOWN ON PLANS.
10. CONTRACTOR TO RAISE AND ADJUST ALL EXISTING AND PROPOSED CATCH BASIN RIMS TO FINAL GRADE AS NECESSARY. CATCH BASINS WITHIN ADA ACCESSIBLE PATHS SHALL BE ADJUSTED TO FINAL ELEVATIONS IN COMPLIANCE WITH CURRENT ADA REQUIREMENTS.

LEGEND

- BUILDING LINE
- EXISTING CURB TO REMAIN
- PROPOSED CURB
- PROPOSED LANDSCAPING
- PROPOSED ASPHALT
- PROPOSED CONCRETE

PRELIMINARY NOT FOR CONSTRUCTION

Title: PRELIMINARY GRADING AND DRAINAGE PLAN
22115 BARTON ROAD
GRAND TERRACE, CA 92313

For: DUTCH BROS

LICENSED PROFESSIONAL ENGINEER HAL PAUL BBB 17814 Not for Construction CIVIL STATE OF CALIFORNIA

Scale: Horizontal 1" = 20' Vertical N/A

Designed BB Drawn BB Checked MTL Approved HPC Date 5/9/24

Barghausen Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 22144

Sheet C2.0

2019 DB Franchising USA, LLC

P:\22000s\22144\preliminary\22144-G.dwg 5/8/2024 9:33 AM BBLADES

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APPENDIX F: MODULAR WETLAND DESIGN CALCULATION

Modular Wetlands Sizing Calculations

Design Using Figure 5-2 of 2013 San Bernardino County Technical Guidance Document for Water Quality Management Plans

Attribute	Value	Unit	Notes
Remaining Percentage	100	%	No reduction from any upstream BMPs
Flow Capacity/imp acre	0.140	cfs/impervious acre	Per Figure 5-2 (below)
Impervious Acres	0.506	ac	Assume no reduction from upstream HSCs
Flow Capacity Required	0.071	cfs	Impervious Acres x Flow Capacity/Imp. Acre

Solution:

Provide a 4'x6' Contech Modular Wetlands Stormwater Biofiltration System (0.073 cfs treated). See documentation next pages

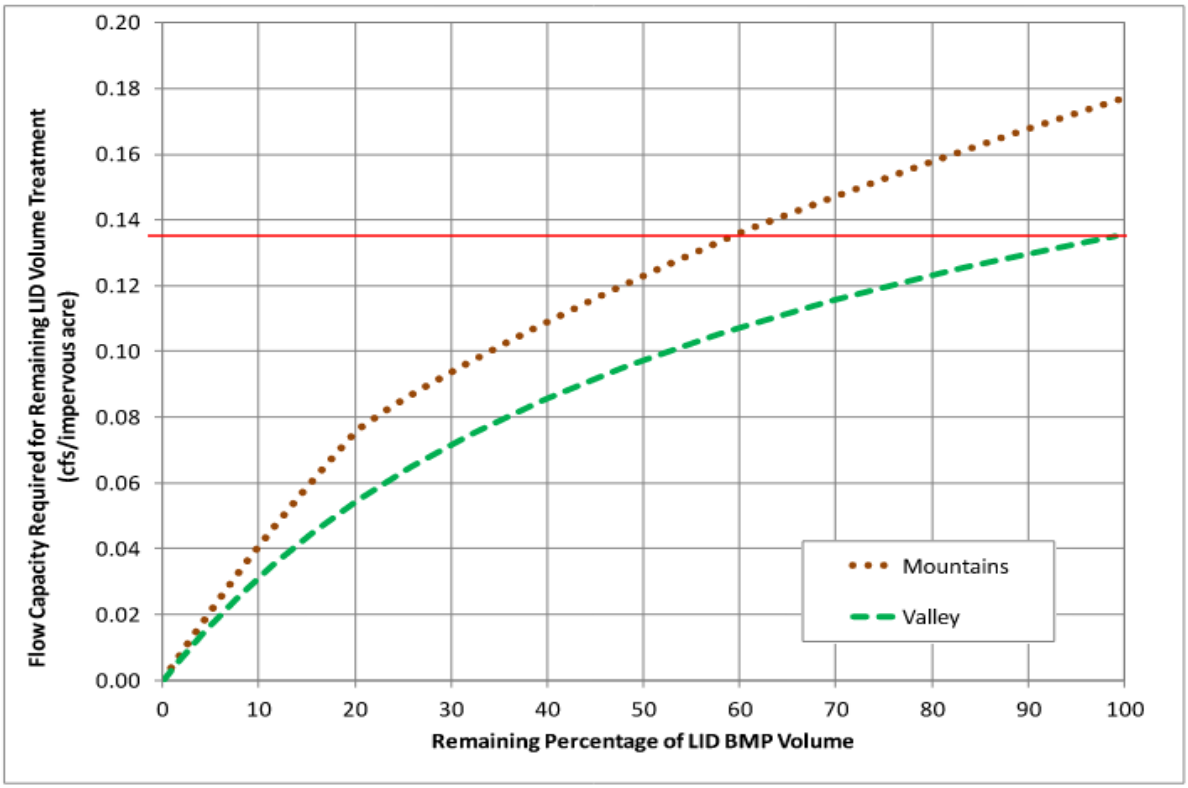
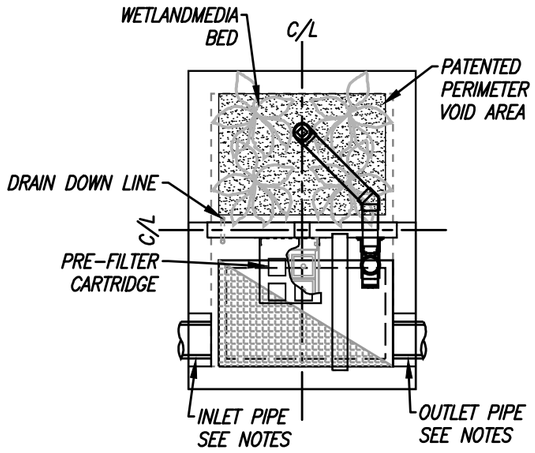


Figure 5-2. Nomograph for Determining Flow-based BMP Capacity Requirement to meet Remaining Unmet DCV

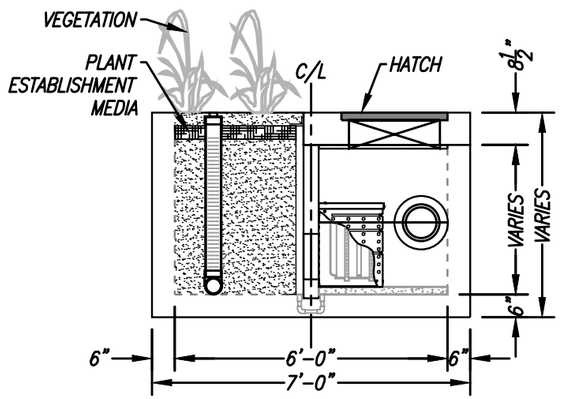
APPENDIX G: MODULAR WETLANDS SYSTEM PRODUCT DATA

SITE SPECIFIC DATA			
PROJECT NUMBER			
PROJECT NAME			
PROJECT LOCATION			
STRUCTURE ID			
TREATMENT REQUIRED			
FLOW BASED (CFS)			
0.073			
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			OFFLINE
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2	N/A	N/A	N/A
OUTLET PIPE			
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION			
SURFACE LOAD	PEDESTRIAN		
NOTES:			

* PRELIMINARY NOT FOR CONSTRUCTION



PLAN VIEW



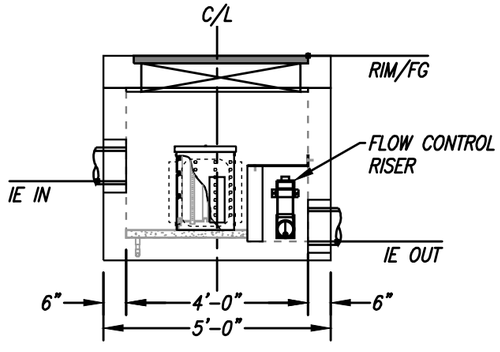
LEFT END VIEW

INSTALLATION NOTES

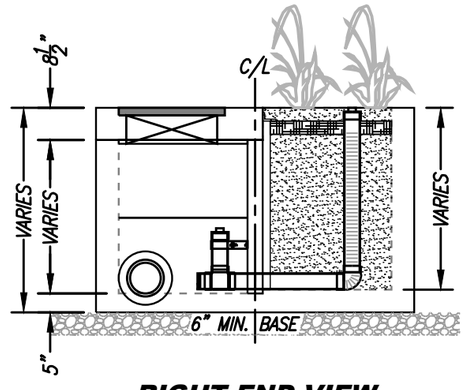
1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS' SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
4. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL PIPES SHALL BE SEALED WATERTIGHT PER MANUFACTURER'S STANDARD CONNECTION DETAIL.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL PIPES, RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO USE GROUT AND/OR BRICKS TO MATCH COVERS WITH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
6. VEGETATION SUPPLIED AND INSTALLED BY OTHERS. ALL UNITS WITH VEGETATION MUST HAVE DRIP OR SPRAY IRRIGATION SUPPLIED AND INSTALLED BY OTHERS.
7. CONTRACTOR RESPONSIBLE FOR CONTACTING CONTECH FOR ACTIVATION OF UNIT. MANUFACTURER'S WARRANTY IS VOID WITHOUT PROPER ACTIVATION BY A CONTECH REPRESENTATIVE.

GENERAL NOTES

1. MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT CONTECH.



ELEVATION VIEW



RIGHT END VIEW

TREATMENT FLOW (CFS)	0.073
OPERATING HEAD (FT)	3.4
PRETREATMENT LOADING RATE (GPM/SF)	1.3
WETLAND MEDIA LOADING RATE (GPM/SF)	1.0

MODULAR WETLANDS
FOR PATENT INFORMATION, GO TO www.ContechES.com/IP

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com

MWS-L-4-6-V
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

CONTECH®
ENGINEERED SOLUTIONS

Modular Wetlands® Linear Stormwater Biofiltration



The experts you need to solve your stormwater challenges



Contech is the leader in stormwater solutions, helping engineers, contractors and owners with infrastructure and land development projects throughout North America.

With our responsive team of stormwater experts, local regulatory expertise and flexible solutions, Contech is the trusted partner you can count on for stormwater management solutions.

Your Contech Team



STORMWATER CONSULTANT

It's my job to recommend the best solution to meet permitting requirements.



STORMWATER DESIGN ENGINEER

I work with consultants to design the best approved solution to meet your project's needs.



REGULATORY MANAGER

I understand the local stormwater regulations and what solutions will be approved.



SALES ENGINEER

I make sure our solutions meet the needs of the contractor during construction.

Contech is your partner in stormwater management solutions



Restoring Nature's Presence in Urban Areas – Modular Wetlands® Linear

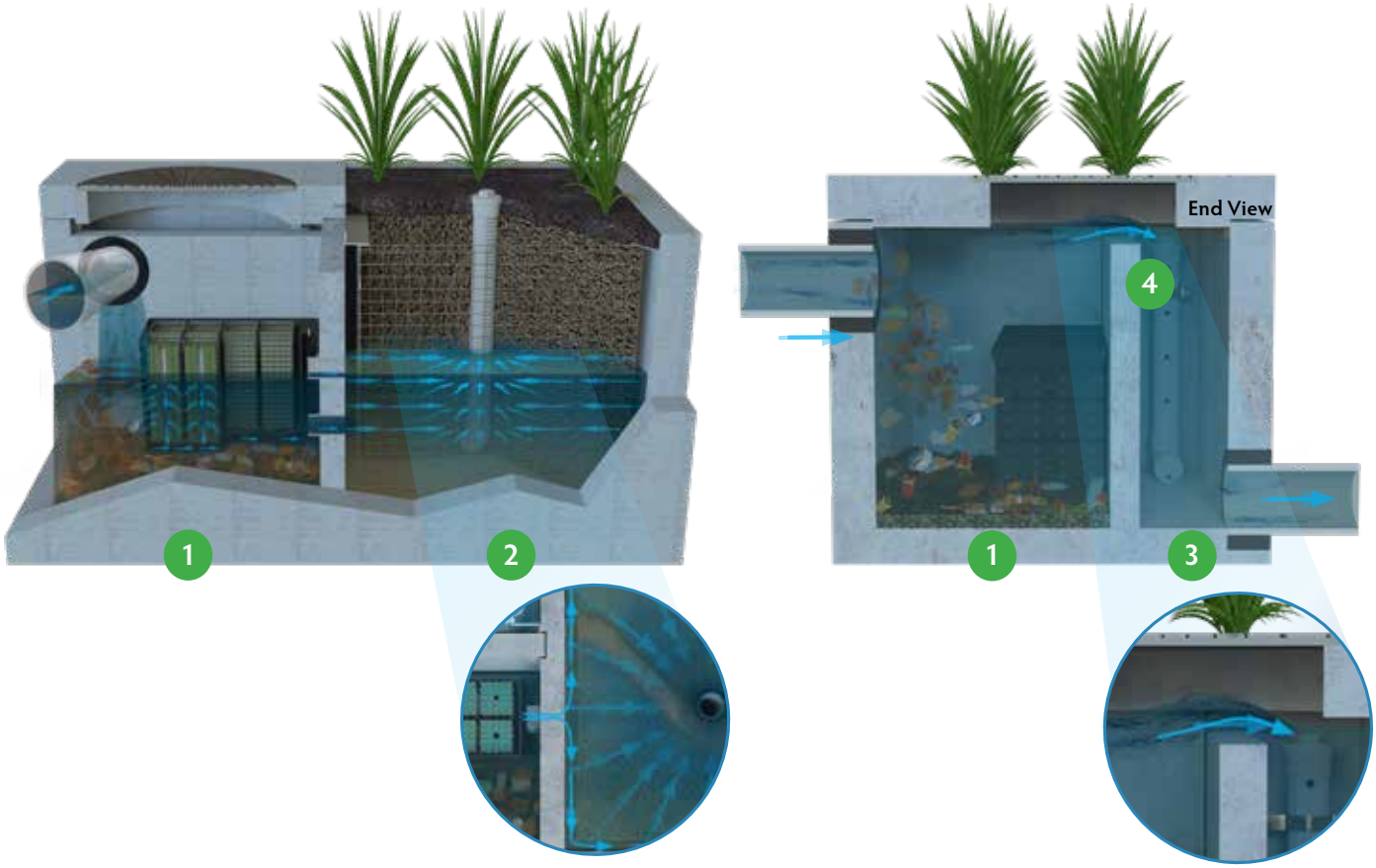
As cities grow, there is less space for natural solutions to treat stormwater. Contech understands this and is committed to providing compact, Low Impact Development (LID) solutions like the Modular Wetlands Linear to protect our nation's waterways.

The Modular Wetlands® Linear is the only biofiltration system to utilize patented horizontal flow, allowing for a small footprint, high treatment capacity, and design versatility. It is also the only biofiltration system that can be routinely installed downstream of storage for additional volume control and treatment.

With numerous regulatory approvals, the system's aesthetic appeal and superior pollutant removal make it the ideal solution for a wide range of stormwater applications, including urban development projects, commercial parking lots, residential streets, mixed-use developments, streetscapes, and more.

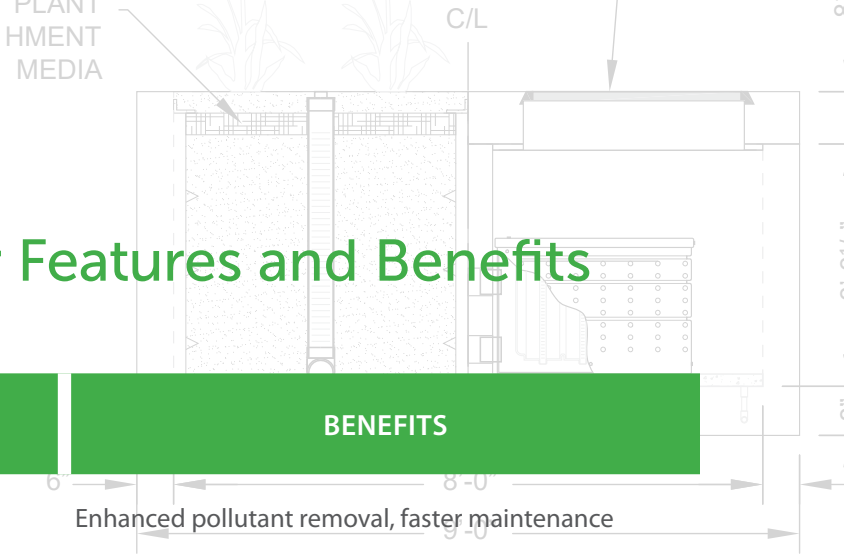
MODULAR WETLANDS®

How the Modular Wetlands® Linear Works



1. **PRETREATMENT** | Stormwater enters the pretreatment chamber where total suspended solids settle, and trash and debris are contained within the chamber. Stormwater then travels through the pretreatment filter boxes that provide additional treatment.
2. **BIOFILTRATION** | As water enters the biofiltration chamber, it fills the void space in the chamber's perimeter. Horizontal forces push the water inward through the biofiltration media, where nutrients and metals are captured. The water then enters the drain pipe to be discharged.
3. **DISCHARGE** | The specially designed vertical drain pipe and orifice control plate control the flow of water through the media to a level lower than the media's capacity, ensuring media effectiveness. The water then enters the horizontal drain pipe to be discharged.
4. **BYPASS** | During peak flows, an internal weir in the side-by-side configuration allows high flows to bypass treatment, eliminating flooding and the need for a separate bypass structure. Bypass is not provided in the end-to end configuration.

Using horizontal flow to improve performance



Modular Wetlands® Linear Features and Benefits

FEATURE	BENEFITS
Pretreatment chamber	Enhanced pollutant removal, faster maintenance
Horizontal flow biofiltration	Greater filter surface area
Performance verified by both the WA DOE and NJ DEP	Superior pollutant capture with confidence
Built-in high flow bypass	Eliminates flooding and the need for a separate bypass structure
Available in multiple configurations and sizes	Flexibility to meet site-specific needs

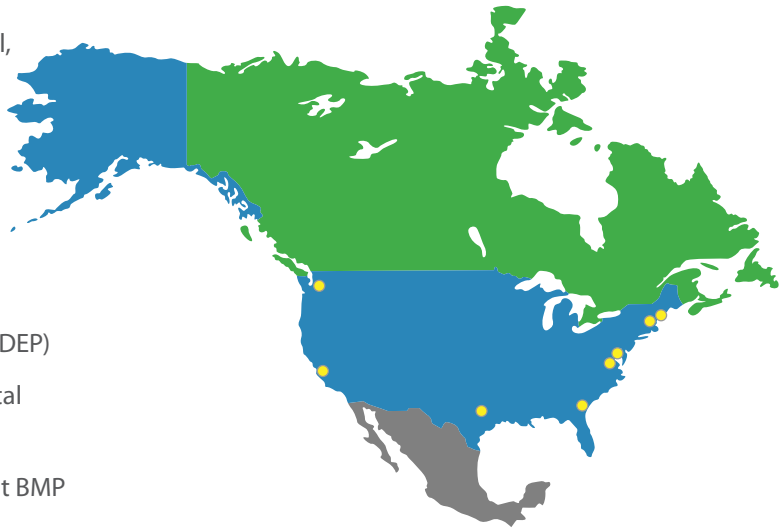


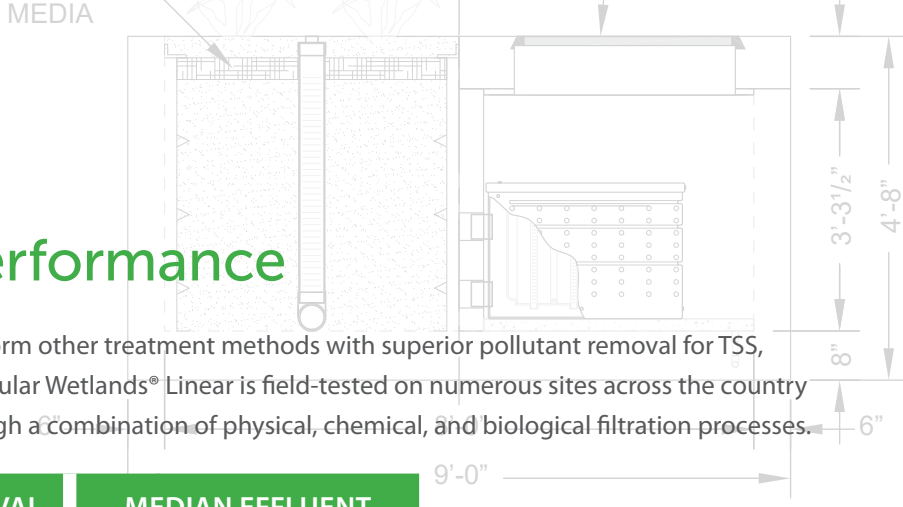
The Modular Wetlands system offers many different configurations.

Select Modular Wetlands® Linear Approvals

Modular Wetlands Linear is approved through numerous local, state and federal programs, including but not limited to:

- Washington State Department of Ecology TAPE
- California Water Resources Control Board, Full Capture Certification
- Virginia Department of Environmental Quality (VA DEQ)
- New Jersey Department of Environmental Protection (NJDEP)
- Maryland Department of the Environment - Environmental Site Design (ESD)
- Rhode Island Department of Environmental Management BMP
- Texas Commission on Environmental Quality (TCEQ)
- Atlanta Regional Commission Certification





Modular Wetlands® Performance

The Modular Wetlands® Linear continues to outperform other treatment methods with superior pollutant removal for TSS, heavy metals, nutrients, and hydrocarbons. The Modular Wetlands® Linear is field-tested on numerous sites across the country and is proven to effectively remove pollutants through a combination of physical, chemical, and biological filtration processes.

POLLUTANT OF CONCERN	MEDIAN REMOVAL EFFICIENCY	MEDIAN EFFLUENT CONCENTRATION (MG/L)
Total Suspended Solids (TSS)	89%	12
Total Phosphorus - TAPE (TP)	61%	0.041
Nitrogen (TN)	23%	1
Total Copper (TCu)	50%	0.006
Total Dissolved Copper	37%	0.006
Total Zinc (TZn)	66%	0.019
Dissolved Zinc	60%	0.0148
Motor Oil	79%	0.8

Sources:
TAPE Field Study - 2012
TAPE Field Study - 2013

Note: Some jurisdictions recognize higher removal rates. Contact your Contech Stormwater Consultant for performance expectations.

Modular Wetlands® Linear Maintenance

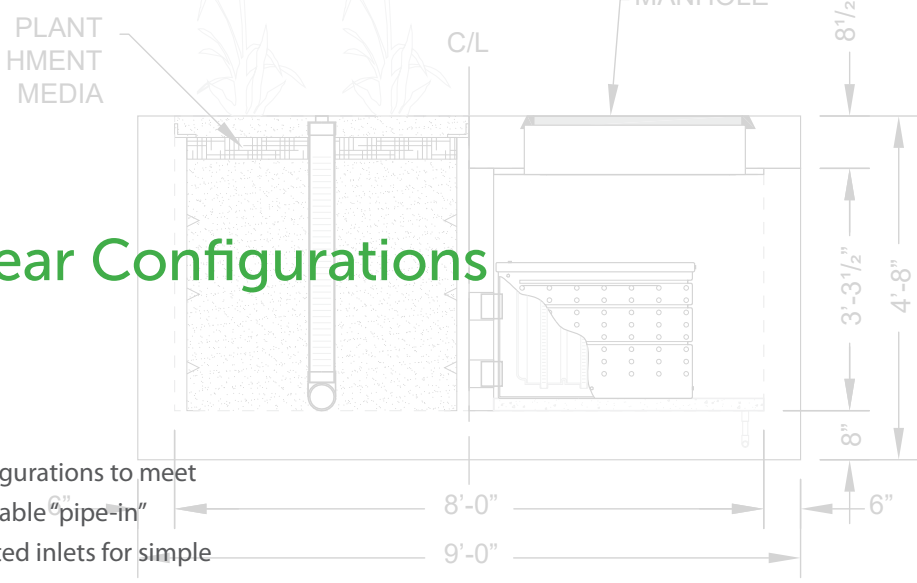
The Modular Wetlands® Linear is a self-contained treatment train. Maintenance requirements for the unit consist of five simple steps that can be completed using a vacuum truck. The system can also be cleaned by hand.

- Remove trash from the screening device
- Remove sediment from the separation chamber
- Periodically replace the pretreatment cartridge filter media
- Replace the drain down filter media
- Trim vegetation



Most Modular Wetland Linear systems can be cleaned in about thirty minutes.

Multiple configurations allow for easy site integration



Modular Wetlands® Linear Configurations

Multiple system configurations integrate with site hydraulic design and layout ...

The Modular Wetlands Linear is offered in multiple configurations to meet site specific needs. This highly versatile system has available "pipe-in" options on most models, along with built-in curb or grated inlets for simple integration into your storm drain design.



Curb Inlet

The Curb Inlet configuration accepts sheet flow through a curb opening and is commonly used along roadways and parking lots. It can be used in sump or flow-by conditions.



Vault

The Vault configuration can be used in end-of-the-line installations. Another benefit of the "pipe-in" design is the ability to install the system downstream of underground detention systems to meet water quality volume requirements, or for traffic-rated designs (no plants).



Downspout

The Downspout configuration is designed to accept a vertical downspout pipe from rooftop and podium areas. Some models have the option of utilizing an internal bypass, simplifying the overall design. The system can be installed as a raised planter, and the exterior can be stuccoed or covered with other finishes to match the look of adjacent buildings.

A partner you can rely on



STORMWATER SOLUTIONS

PIPE SOLUTIONS

STRUCTURES SOLUTIONS

Few companies offer the wide range of high-quality stormwater resources you can find with us — state-of-the-art products, decades of expertise, and all the maintenance support you need to operate your system cost-effectively.

THE CONTECH WAY

Contech® Engineered Solutions provides innovative, cost-effective site solutions to engineers, contractors, and developers on projects across North America. Our portfolio includes bridges, drainage, erosion control, retaining wall, sanitary sewer and stormwater management products.

TAKE THE NEXT STEP

For more information: www.ContechES.com

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APPENDIX H: BMP EDUCATIONAL MATERIAL FOR DRAINAGE SYSTEM AND SITE

Drainage System Maintenance SC-74



Photo Credit: Geoff Brosseau

Objectives

- Contain
- Educate
- Reduce/Minimize

Description

As a consequence of its function, the stormwater conveyance system collects and transports urban runoff that may contain certain pollutants. Maintaining catch basins, stormwater inlets, and other stormwater conveyance structures on a regular basis will remove pollutants, prevent clogging of the downstream conveyance system, restore catch basins' sediment trapping capacity, and ensure the system functions properly hydraulically to avoid flooding.

Targeted Constituents

Sediment	☑
Nutrients	☑
Trash	☑
Metals	☑
Bacteria	☑
Oil and Grease	☑
Organics	☑
Oxygen Demanding	☑

Approach

Suggested Protocols

Catch Basins/Inlet Structures

- Municipal staff should regularly inspect facilities to ensure the following:
  - Immediate repair of any deterioration threatening structural integrity.
  - Cleaning before the sump is 40% full. Catch basins should be cleaned as frequently as needed to meet this standard.
  - Stenciling of catch basins and inlets (see SC-75 Waste Handling and Disposal).
- Clean catch basins, storm drain inlets, and other conveyance structures in high pollutant load areas just before the wet season to remove sediments and debris accumulated during the summer.

CASQA
CALIFORNIA STORMWATER QUALITY ASSOCIATION

- Conduct inspections more frequently during the wet season for problem areas where sediment or trash accumulates more often. Clean and repair as needed.
- Keep accurate logs of the number of catch basins cleaned.
- Record the amount of waste collected.
- Store wastes collected from cleaning activities of the drainage system in appropriate containers or temporary storage sites in a manner that prevents discharge to the storm drain.
- Dewater the wastes with outflow into the sanitary sewer if permitted. Water should be treated with an appropriate filtering device prior to discharge to the sanitary sewer. If discharge to the sanitary sewer is not allowed, water should be pumped or vacuumed to a tank and properly disposed of. Do not dewater near a storm drain or stream.
- Except for small communities with relatively few catch basins that may be cleaned manually, most municipalities will require mechanical cleaners such as eductors, vacuums, or bucket loaders.

Storm Drain Conveyance System

- Locate reaches of storm drain with deposit problems and develop a flushing schedule that keeps the pipe clear of excessive buildup.
- Collect flushed effluent and pump to the sanitary sewer for treatment.

Pump Stations

- Clean all storm drain pump stations prior to the wet season to remove silt and trash.
- Do not allow discharge from cleaning a storm drain pump station or other facility to reach the storm drain system.
- Conduct quarterly routine maintenance at each pump station.
- Inspect, clean, and repair as necessary all outlet structures prior to the wet season.
- Sample collected sediments to determine if landfill disposal is possible, or illegal discharges in the watershed are occurring.

Open Channel

- Consider modification of storm channel characteristics to improve channel hydraulics, to increase pollutant removals, and to enhance channel/creek aesthetic and habitat value.
- Conduct channel modification/improvement in accordance with existing laws. Any person, government agency, or public utility proposing an activity that will change the natural (emphasis added) state of any river, stream, or lake in California, must enter into a steam or Lake Alteration Agreement with the Department of Fish and Game. The developer-applicant should also contact local governments (city, county, special districts), other state agencies

(SWRCB, RWQCB, Department of Forestry, Department of Water Resources), and Federal Corps of Engineers and USFWS

Illicit Connections and Discharges

- During routine maintenance of conveyance system and drainage structures field staff should look for evidence of illegal discharges or illicit connections:
  - Is there evidence of spills such as paints, discoloring, etc.
  - Are there any odors associated with the drainage system
  - Record locations of apparent illegal discharges/illicit connections
  - Track flows back to potential dischargers and conduct aboveground inspections. This can be done through visual inspection of up gradient manholes or alternate techniques including zinc chloride smoke testing, fluorometric dye testing, physical inspection testing, or television camera inspection.
  - Once the origin of flow is established, require illicit discharger to eliminate the discharge.
- Stencil storm drains, where applicable, to prevent illegal disposal of pollutants. Storm drain inlets should have messages such as "Dump No Waste Drains to Stream" stenciled next to them to warn against ignorant or intentional dumping of pollutants into the storm drainage system.
- Refer to fact sheet SC-10 Non-Stormwater Discharges.

Illegal Dumping

- Regularly inspect and clean up hot spots and other storm drainage areas where illegal dumping and disposal occurs.
- Establish a system for tracking incidents. The system should be designed to identify the following:
  - Illegal dumping hot spots
  - Types and quantities (in some cases) of wastes
  - Patterns in time of occurrence (time of day/night, month, or year)
  - Mode of dumping (abandoned containers, "midnight dumping" from moving vehicles, direct dumping of materials, accidents/spills)
  - Responsible parties
- Post "No Dumping" signs in problem areas with a phone number for reporting dumping and disposal. Signs should also indicate fines and penalties for illegal dumping.
- Refer to fact sheet SC-10 Non-Stormwater Discharges.

- The State Department of Fish and Game has a hotline for reporting violations called Cal TIP (1-800-952-5400). The phone number may be used to report any violation of a Fish and Game code (illegal dumping, poaching, etc.).
- The California Department of Toxic Substances Control's Waste Alert Hotline, 1-800-69TOXIC, can be used to report hazardous waste violations.

Training

- Train crews in proper maintenance activities, including record keeping and disposal.
- Only properly trained individuals are allowed to handle hazardous materials/wastes.
- Train municipal employees from all departments (public works, utilities, street cleaning, parks and recreation, industrial waste inspection, hazardous waste inspection, sewer maintenance) to recognize and report illegal dumping.
- Train municipal employees and educate businesses, contractors, and the general public in proper and consistent methods for disposal.
- Train municipal staff regarding non-stormwater discharges (See SC-10 Non-Stormwater Discharges).

Spill Response and Prevention

- Refer to SC-11, Prevention, Control & Cleanup
- Have spill cleanup materials readily available and in a known location.
- Cleanup spills immediately and use dry methods if possible.
- Properly dispose of spill cleanup material.

Other Considerations

- Cleanup activities may create a slight disturbance for local aquatic species. Access to items and material on private property may be limited. Trade-offs may exist between channel hydraulics and water quality/riparian habitat. If storm channels or basins are recognized as wetlands, many activities, including maintenance, may be subject to regulation and permitting.
- Storm drain flushing is most effective in small diameter pipes (36-inch diameter pipe or less, depending on water supply and sediment collection capacity). Other considerations associated with storm drain flushing may include the availability of a water source, finding a downstream area to collect sediments, liquid/sediment disposal, and disposal of flushed effluent to sanitary sewer may be prohibited in some areas.
- Regulations may include adoption of substantial penalties for illegal dumping and disposal.
- Municipal codes should include sections prohibiting the discharge of soil, debris, refuse, hazardous wastes, and other pollutants into the storm drain system.
- Private property access rights may be needed to track illegal discharges up gradient.

- Requirements of municipal ordinance authority for suspected source verification testing for illicit connections necessary for guaranteed rights of entry.

Requirements

Costs

- An aggressive catch basin cleaning program could require a significant capital and O&M budget. A careful study of cleaning effectiveness should be undertaken before increased cleaning is implemented. Catch basin cleaning costs are less expensive if vacuum street sweepers are available; cleaning catch basins manually can cost approximately twice as much as cleaning the basins with a vacuum attached to a sweeper.

- Methods used for illicit connection detection (smoke testing, dye testing, visual inspection, and flow monitoring) can be costly and time-consuming. Site-specific factors, such as the level of impervious area, the density and ages of buildings, and type of land use will determine the level of investigation necessary. Encouraging reporting of illicit discharges by employees can offset costs by saving expense on inspectors and directing resources more efficiently. Some programs have used funds available from "environmental fees" or special assessment districts to fund their illicit connection elimination programs.

Maintenance

- Two-person teams may be required to clean catch basins with vactor trucks.

- Identifying illicit discharges requires teams of at least two people (volunteers can be used), plus administrative personnel, depending on the complexity of the storm sewer system.

- Arrangements must be made for proper disposal of collected wastes.

- Requires technical staff to detect and investigate illegal dumping violations, and to coordinate public education.

Supplemental Information

Further Detail of the BMP

Storm Drain flushing

Sanitary sewer flushing is a common maintenance activity used to improve pipe hydraulics and to remove pollutants in sanitary sewer systems. The same principles that make sanitary sewer flushing effective can be used to flush storm drains. Flushing may be designed to hydraulically convey accumulated material to strategic locations, such as to an open channel, to another point where flushing will be initiated, or over to the sanitary sewer and on to the treatment facilities, thus preventing re-suspension and overflow of a portion of the solids during storm events. Flushing prevents "plug flow" discharges of concentrated pollutant loadings and sediments. The deposits can hinder the designed conveyance capacity of the storm drain system and potentially cause backwater conditions in severe cases of clogging.

Storm drain flushing usually takes place along segments of pipe with grades that are too flat to maintain adequate velocity to keep particles in suspension. An upstream manhole is selected to place an inflatable device that temporarily plugs the pipe. Further upstream, water is pumped into the line to create a flushing wave. When the upstream reach of pipe is sufficiently full to

cause a flushing wave, the inflated device is rapidly deflated with the assistance of a vacuum pump, releasing the backed up water and resulting in the cleaning of the storm drain segment.

To further reduce the impacts of stormwater pollution, a second inflatable device, placed well downstream, may be used to re-collect the water after the force of the flushing wave has dissipated. A pump may then be used to transfer the water and accumulated material to the sanitary sewer for treatment. In some cases, an interceptor structure may be more practical or required to re-collect the flushed waters.

It has been found that cleansing efficiency of periodic flush waves is dependent upon flush volume, flush discharge rate, sewer slope, sewer length, sewer flow rate, sewer diameter, and population density. As a rule of thumb, the length of line to be flushed should not exceed 700 feet. At this maximum recommended length, the percent removal efficiency ranges between 65-75 percent for organics and 55-65 percent for dry weather grit/inorganic material. The percent removal efficiency drops rapidly beyond that. Water is commonly supplied by a water truck, but fire hydrants can also supply water. To make the best use of water, it is recommended that reclaimed water be used or that fire hydrant line flushing coincide with storm drain flushing.

Flow Management

Flow management has been one of the principal motivations for designing urban stream corridors in the past. Such needs may or may not be compatible with the stormwater quality goals in the stream corridor.

Downstream flood peaks can be suppressed by reducing through flow velocity. This can be accomplished by reducing gradient with grade control structures or increasing roughness with boulders, dense vegetation, or complex banks forms. Reducing velocity correspondingly increases flood height, so all such measures have a natural association with floodplain open space. Flood elevations laterally adjacent to the stream can be lowered by increasing through flow velocity.

However, increasing velocity increases flooding downstream and inherently conflicts with channel stability and human safety. Where topography permits, another way to lower flood elevation is to lower the level of the floodway with drop structures into a large but subtly excavated bowl where flood flows we allowed to spread out.

Stream Corridor Planning

Urban streams receive and convey stormwater flows from developed or developing watersheds. Planning of stream corridors thus interacts with urban stormwater management programs. If local programs are intended to control or protect downstream environments by managing flows delivered to the channels, then it is logical that such programs should be supplemented by management of the materials, forms, and uses of the downstream riparian corridor. Any proposal for steam alteration or management should be investigated for its potential flow and stability effects on upstream, downstream, and laterally adjacent areas. The timing and rate of flow from various tributaries can combine in complex ways to alter flood hazards. Each section of channel is unique, influenced by its own distribution of roughness elements, management activities, and stream responses.

Flexibility to adapt to stream features and behaviors as they evolve must be included in stream reclamation planning. The amenity and ecology of streams may be enhanced through the landscape design options of 1) corridor reservation, 2) bank treatment, 3) geomorphic restoration, and 4) grade control.

Corridor reservation - Reserving stream corridors and valleys to accommodate natural stream meandering, aggradation, degradation, and over bank flows allows streams to find their own form and generate less ongoing erosion. In California, open stream corridors in recent urban developments have produced recreational open space, irrigation of streamside plantings, and the aesthetic amenity of flowing water.

Bank treatment - The use of armoring, vegetative cover, and flow deflection may be used to influence a channel's form, stability, and biotic habitat. To prevent bank erosion, armoring can be done with rigid construction materials, such as concrete, masonry, wood planks and logs, riprap, and gabions. Concrete linings have been criticized because of their lack of provision of biotic habitat. In contrast, riprap and gabions make relatively porous and flexible linings. Boulders, placed in the bed reduce velocity and erosive power.

Riparian vegetation can stabilize the banks of streams that are at or near a condition of equilibrium. Binding networks of roots increase bank shear strength. During flood flows, resilient vegetation is forced into erosion-inhibiting mats. The roughness of vegetation leads to lower velocity, further reducing erosive effects. Structural flow deflection can protect banks from erosion or alter fish habitat. By concentrating flow, a deflector causes a pool to be scoured in the bed.

Geomorphic restoration – Restoration refers to alteration of disturbed streams so their form and behavior emulate those of undisturbed streams. Natural meanders are retained, with grading to gentle slopes on the inside of curves to allow point bars and riffle-pool sequences to develop. Trees are retained to provide scenic quality, biotic productivity, and roots for bank stabilization, supplemented by plantings where necessary.

A restorative approach can be successful where the stream is already approaching equilibrium. However, if upstream urbanization continues new flow regimes will be generated that could disrupt the equilibrium of the treated system.

Grade Control - A grade control structure is a level shelf of a permanent material, such as stone, masonry, or concrete, over which stream water flows. A grade control structure is called a sill, weir, or drop structure, depending on the relation of its invert elevation to upstream and downstream channels.

A sill is installed at the preexisting channel bed elevation to prevent upstream migration of nick points. It establishes a firm base level below which the upstream channel can not erode.

A weir or check dam is installed with invert above the preexisting bed elevation. A weir raises the local base level of the stream and causes aggradation upstream. The gradient, velocity, and erosive potential of the stream channel are reduced. A drop structure lowers the downstream invert below its preexisting elevation, reducing downstream gradient and velocity. Weirs and drop structure control erosion by dissipating energy and reducing slope velocity.

When carefully applied, grade control structures can be highly versatile in establishing human and environmental benefits in stabilized channels. To be successful, application of grade control structures should be guided by analysis of the stream system both upstream and downstream from the area to he reclaimed.

Examples

The California Department of Water Resources began the Urban Stream Restoration Program in 1985. The program provides grant funds to municipalities and community groups to implement stream restoration projects. The projects reduce damages from streambank aid watershed instability arid floods while restoring streams' aesthetic, recreational, and fish and wildlife values.

In Buena Vista Park, upper floodway slopes are gentle and grassed to achieve continuity of usable park land across the channel of small boulders at the base of the slopes.

The San Diego River is a large, vegetative lined channel, which was planted in a variety of species to support riparian wildlife while stabilizing the steep banks of the floodway.

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Parking/Storage Area Maintenance SC-43



Objectives

- Cover
- Contain
- Educate
- Reduce/Minimize
- Product Substitution

Targeted Constituents

Sediment	☑
Nutrients	☑
Trash	☑
Metals	☑
Bacteria	☑
Oil and Grease	☑
Organics	☑
Oxygen Demanding	☑

Description

Parking lots and storage areas can contribute a number of substances, such as trash, suspended solids, hydrocarbons, oil and grease, and heavy metals that can enter receiving waters through stormwater runoff or non-stormwater discharges. The following protocols are intended to prevent or reduce the discharge of pollutants from parking/storage areas and include using good housekeeping practices, following appropriate cleaning BMPs, and training employees.

Approach

Pollution Prevention

- Encourage alternative designs and maintenance strategies for impervious parking lots. (See New Development and Redevelopment BMP Handbook).
- Keep accurate maintenance logs to evaluate BMP implementation.

Suggested Protocols

General

- Keep the parking and storage areas clean and orderly. Remove debris in a timely fashion.
- Allow sheet runoff to flow into biofilters (vegetated strip and swale) and/or infiltration devices.
- Utilize sand filters or oleophilic collectors for oily waste in low concentrations.

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- Arrange rooftop drains to prevent drainage directly onto paved surfaces.
- Design lot to include semi-permeable hardscape.

Controlling Litter

- Post "No Littering" signs and enforce anti-litter laws.
- Provide an adequate number of litter receptacles.
- Clean out and cover litter receptacles frequently to prevent spillage.
- Provide trash receptacles in parking lots to discourage litter.
- Routinely sweep, shovel and dispose of litter in the trash.

Surface cleaning

- Use dry cleaning methods (e.g. sweeping or vacuuming) to prevent the discharge of pollutants into the stormwater conveyance system.
- Establish frequency of public parking lot sweeping based on usage and field observations of waste accumulation.
- Sweep all parking lots at least once before the onset of the wet season.
- If water is used follow the procedures below:
  - Block the storm drain or contain runoff.
  - Wash water should be collected and pumped to the sanitary sewer or discharged to a pervious surface, do not allow wash water to enter storm drains.
  - Dispose of parking lot sweeping debris and dirt at a landfill.
- When cleaning heavy oily deposits:
  - Use absorbent materials on oily spots prior to sweeping or washing.
  - Dispose of used absorbents appropriately.

Surface Repair

- Pre-heat, transfer or load hot bituminous material away from storm drain inlets.
- Apply concrete, asphalt, and seal coat during dry weather to prevent contamination form contacting stormwater runoff.
- Cover and seal nearby storm drain inlets (with waterproof material or mesh) and manholes before applying seal coat, slurry seal, etc., where applicable. Leave covers in place until job is complete and until all water from emulsified oil sealants has drained or evaporated. Clean any debris from these covered manholes and drains for proper disposal.

- Use only as much water as necessary for dust control, to avoid runoff.
- Catch drips from paving equipment that is not in use with pans or absorbent material placed under the machines. Dispose of collected material and absorbents properly.

Inspection

- Have designated personnel conduct inspections of the parking facilities and stormwater conveyance systems associated with them on a regular basis.
- Inspect cleaning equipment/sweepers for leaks on a regular basis.

Training

- Provide regular training to field employees and/or contractors regarding cleaning of paved areas and proper operation of equipment.
- Train employees and contractors in proper techniques for spill containment and cleanup.

Spill Response and Prevention

- Refer to SC-11, Spill Prevention, Control & Cleanup.
- Keep your Spill Prevention Control and countermeasure (SPCC) plan up-to-date, nad implement accordingly.
- Have spill cleanup materials readily available and in a known location.
- Cleanup spills immediately and use dry methods if possible.
- Properly dispose of spill cleanup material.

Other Considerations

- Limitations related to sweeping activities at large parking facilities may include high equipment costs, the need for sweeper operator training, and the inability of current sweeper technology to remove oil and grease.

Requirements

Costs

Cleaning/sweeping costs can be quite large, construction and maintenance of stormwater structural controls can be quite expensive as well.

Maintenance

- Sweep parking lot to minimize cleaning with water.
- Clean out oil/water/sand separators regularly, especially after heavy storms.
- Clean parking facilities on a regular basis to prevent accumulated wastes and pollutants from being discharged into conveyance systems during rainy conditions.

Supplemental Information

Further Detail of the BMP

Surface Repair

Apply concrete, asphalt, and seal coat during dry weather to prevent contamination form contacting stormwater runoff. Where applicable, cover and seal nearby storm drain inlets (with waterproof material or mesh) and manholes before applying seal coat, slurry seal, etc. Leave covers in place until job is complete and until all water from emulsified oil sealants has drained or evaporated. Clean any debris from these covered manholes and drains for proper disposal. Use only as much water as necessary for dust control, to avoid runoff.

References and Resources

http://www.stormwatercenter.net/

California's Nonpoint Source Program Plan http://www.swrcb.ca.gov/nps/index.html

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San Diego Stormwater Co-permittees Jurisdictional Urban Runoff Management Program (URMP)
http://www.projectcleanwater.org/pdf/Model%20Program%20Municipal%20Facilities.pdf

Building & Grounds Maintenance SC-41



Objectives

- Cover
- Contain
- Educate
- Reduce/Minimize
- Product Substitution

Targeted Constituents

Sediment	☑
Nutrients	☑
Trash	☑
Metals	☑
Bacteria	☑
Oil and Grease	☑
Organics	☑
Oxygen Demanding	☑

Description

Stormwater runoff from building and grounds maintenance activities can be contaminated with toxic hydrocarbons in solvents, fertilizers and pesticides, suspended solids, heavy metals, and abnormal pH. Utilizing the following protocols will prevent or reduce the discharge of pollutants to stormwater from building and grounds maintenance activities by washing and cleaning up with as little water as possible, following good landscape management practices, preventing and cleaning up spills immediately, keeping debris from entering the storm drains, and maintaining the stormwater collection system.

Approach

Pollution Prevention

- Switch to non-toxic chemicals for maintenance when possible.
- Choose cleaning agents that can be recycled.
- Encourage proper lawn management and landscaping, including use of native vegetation.
- Encourage use of Integrated Pest Management techniques for pest control.
- Encourage proper onsite recycling of yard trimmings.
- Recycle residual paints, solvents, lumber, and other material as much as possible.

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Suggested Protocols

Pressure Washing of Buildings, Rooftops, and Other Large Objects

- In situations where soaps or detergents are used and the surrounding area is paved, pressure washers must use a waste water collection device that enables collection of wash water and associated solids. A sump pump, wet vacuum or similarly effective device must be used to collect the runoff and loose materials. The collected runoff and solids must be disposed of properly.

- If soaps or detergents are not used, and the surrounding area is paved, wash water runoff does not have to be collected but must be screened. Pressure washers must use filter fabric or some other type of screen on the ground and/or in he catch basin to trap the particles in wash water runoff.

- If you are pressure washing on a grassed area (with or without soap), runoff must be dispersed as sheet flow as much as possible, rather than as a concentrated stream. The wash runoff must remain on the grass and not drain to pavement. Ensure that this practice does not kill grass.

Landscaping Activities

- Do not apply any chemicals (insecticide, herbicide, or fertilizer) directly to surface waters, unless the application is approved and permitted by the state.

- Dispose of grass clippings, leaves, sticks, or other collected vegetation as garbage, or by composting. Do not dispose of collected vegetation into waterways or storm drainage systems.

- Use mulch or other erosion control measures on exposed soils.

- Check irrigation schedules so pesticides will not be washed away and to minimize non-stormwater discharge.

Building Repair, Remodeling, and Construction

- Do not dump any toxic substance or liquid waste on the pavement, the ground, or toward a storm drain.

- Use ground or drop cloths underneath outdoor painting, scraping, and sandblasting work, and properly dispose of collected material daily.

- Use a ground cloth or oversized tub for activities such as paint mixing and tool cleaning.

- Clean paint brushes and tools covered with water-based paints in sinks connected to sanitary sewers or in portable containers that can be dumped into a sanitary sewer drain. Brushes and tools covered with non-water-based paints, finishes, or other materials must be cleaned in a manner that enables collection of used solvents (e.g., paint thinner, turpentine, etc.) for recycling or proper disposal.

- Use a storm drain cover, filter fabric, or similarly effective runoff control mechanism if dust, grit, wash water, or other pollutants may escape the work area and enter a catch basin. The containment device(s) must be in place at the beginning of the work day, and accumulated dirty runoff and solids must be collected and disposed of before removing the containment device(s) at the end of the work day.

- If you need to de-water an excavation site, you may need to filter the water before discharging to a catch basin or off-site. In which case you should direct the water through hay bales and filter fabric or use other sediment filters or traps.

- Store toxic material under cover with secondary containment during precipitation events and when not in use. A cover would include tarps or other temporary cover material.

Mowing, Trimming, and Planting

- Dispose of leaves, sticks, or other collected vegetation as garbage, by composting or at a permitted landfill. Do not dispose of collected vegetation into waterways or storm drainage systems.

- Use mulch or other erosion control measures when soils are exposed.

- Place temporarily stockpiled material away from watercourses and drain inlets, and berm or cover stockpiles to prevent material releases to the storm drain system.

- Consider an alternative approach when bailing out muddy water; do not put it in the storm drain, pour over landscaped areas.

- Use hand or mechanical weeding where practical.

Fertilizer and Pesticide Management

- Follow all federal, state, and local laws and regulations governing the use, storage, and disposal of fertilizers and pesticides and training of applicators and pest control advisors.

- Follow manufacturers' recommendations and label directions. Pesticides must never be applied if precipitation is occuring or predicted. Do not apply insecticides within 100 feet of surface waters such as lakes, ponds, wetlands, and streams.

- Use less toxic pesticides that will do the job, whenever possible. Avoid use of copper-based pesticides if possible.

- Do not use pesticides if rain is expected.

- Do not mix or prepare pesticides for application near storm drains.

- Use the minimum amount needed for the job.

- Calibrate fertilizer distributors to avoid excessive application.

- Employ techniques to minimize off-target application (e.g. spray drift) of pesticides, including consideration of alternative application techniques.

- Apply pesticides only when wind speeds are low.
- Work fertilizers into the soil rather than dumping or broadcasting them onto the surface.
- Irrigate slowly to prevent runoff and then only as much as is needed.
- Clean pavement and sidewalk if fertilizer is spilled on these surfaces before applying irrigation water.
- Dispose of empty pesticide containers according to the instructions on the container label.
- Use up the pesticides. Rinse containers, and use rinse water as product. Dispose of unused pesticide as hazardous waste.
- Implement storage requirements for pesticide products with guidance from the local fire department and County Agricultural Commissioner. Provide secondary containment for pesticides.

Inspection

- Inspect irrigation system periodically to ensure that the right amount of water is being applied and that excessive runoff is not occurring. Minimize excess watering, and repair leaks in the irrigation system as soon as they are observed.

Training

- Educate and train employees on use of pesticides and in pesticide application techniques to prevent pollution.
- Train employees and contractors in proper techniques for spill containment and cleanup.
- Be sure the frequency of training takes into account the complexity of the operations and the nature of the staff.

Spill Response and Prevention

- Refer to SC-11, Spill Prevention, Control & Cleanup
- Keep your Spill Prevention Control and countermeasure (SPCC) plan up-to-date, and implement accordingly.
- Have spill cleanup materials readily available and in a known location.
- Cleanup spills immediately and use dry methods if possible.
- Properly dispose of spill cleanup material.

Other Considerations

- Alternative pest/weed controls may not be available, suitable, or effective in many cases.

Requirements

Costs

- Overall costs should be low in comparison to other BMPs.

Maintenance

- Sweep paved areas regularly to collect loose particles, and wipe up spills with rags and other absorbent material immediately, do not hose down the area to a storm drain.

Supplemental Information

Further Detail of the BMP

Fire Sprinkler Line Flushing

Building fire sprinkler line flushing may be a source of non-stormwater runoff pollution. The water entering the system is usually potable water though in some areas it may be non-potable reclaimed wastewater. There are subsequent factors that may drastically reduce the quality of the water in such systems. Black iron pipe is usually used since it is cheaper than potable piping but it is subject to rusting and results in lower quality water. Initially the black iron pipe has an oil coating to protect it from rusting between manufacture and installation; this will contaminate the water from the first flush but not from subsequent flushes. Nitrates, poly-phosphates and other corrosion inhibitors, as well as fire suppressants and antifreeze may be added to the sprinkler water system. Water generally remains in the sprinkler system a long time, typically a year, between flushes and may accumulate iron, manganese, lead, copper, nickel and zinc. The water generally becomes anoxic and contains living and dead bacteria and breakdown products from chlorination. This may result in a significant BOD problem and the water often smells. Consequently dispose fire sprinkler line flush water into the sanitary sewer. Do not allow discharge to storm drain or infiltration due to potential high levels of pollutants in fire sprinkler line water.

References and Resources

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San Diego Stormwater Co-permittees Jurisdictional Urban Runoff Management Program (URMP) -
http://www.projectcleanwater.org/pdf/Model%20Program%20Municipal%20Facilities.pdf

Plaza and Sidewalk Cleaning SC-71



Objectives

- Cover
- Contain
- Educate
- Reduce/Minimize
- Product Substitution

Targeted Constituents

Sediment	☑
Nutrients	☑
Trash	☑
Metals	☑
Bacteria	☑
Oil and Grease	☑
Organics	☑
Oxygen Demanding	☑

Description

Pollutants on sidewalks and other pedestrian traffic areas and plazas are typically due to littering and vehicle use. This fact sheet describes good housekeeping practices that can be incorporated into the municipality's existing cleaning and maintenance program.

Approach

Pollution Prevention

- Use dry cleaning methods whenever practical for surface cleaning activities.
- Use the least toxic materials available (e.g. water based paints, gels or sprays for graffiti removal).

Suggested Protocols

Surface Cleaning

- Regularly broom (dry) sweep sidewalk, plaza and parking lot areas to minimize cleaning with water.
- Dry cleanup first (sweep, collect, and dispose of debris and trash) when cleaning sidewalks or plazas, then wash with or without soap.
- Block the storm drain or contain runoff when cleaning with water. Discharge wash water to landscaping or collect water and pump to a tank or discharge to sanitary sewer if allowed. (Permission may be required from local sanitation district.)

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- Block the storm drain or contain runoff when washing parking areas, driveways or drive-throughs. Use absorbents to pick up oil; then dry sweep. Clean with or without soap. Collect water and pump to a tank or discharge to sanitary sewer if allowed. Street Repair and Maintenance.

Graffiti Removal

- Avoid graffiti abatement activities during rain events.
- Implement the procedures under Painting and Paint Removal in SC-70 Roads, Streets, and Highway Operation and Maintenance fact sheet when graffiti is removed by painting over.
- Direct runoff from sand blasting and high pressure washing (with no cleaning agents) into a dirt or landscaped area after treating with an appropriate filtering device.
- Plug nearby storm drain inlets and vacuum/pump wash water to the sanitary sewer if authorized to do so if a graffiti abatement method generates wash water containing a cleaning compound (such as high pressure washing with a cleaning compound). Ensure that a non-hazardous cleaning compound is used or dispose as hazardous waste, as appropriate.

Surface Removal and Repair

- Schedule surface removal activities for dry weather if possible.
- Avoid creating excess dust when breaking asphalt or concrete.
- Take measures to protect nearby storm drain inlets prior to breaking up asphalt or concrete (e.g. place hay bales or sand bags around inlets). Clean afterwards by sweeping up as much material as possible.
- Designate an area for clean up and proper disposal of excess materials.
- Remove and recycle as much of the broken pavement as possible to avoid contact with rainfall and stormwater runoff.
- When making saw cuts in pavement, use as little water as possible. Cover each storm drain inlet completely with filter fabric during the sawing operation and contain the slurry by placing straw bales, sandbags, or gravel dams around the inlets. After the liquid drains or evaporates, shovel or vacuum the slurry residue from the pavement or gutter and remove from site.
- Always dry sweep first to clean up tracked dirt. Use a street sweeper or vacuum truck. Do not dump vacuumed liquid in storm drains. Once dry sweeping is complete, the area may be hosed down if needed. Wash water should be directed to landscaping or collected and pumped to the sanitary sewer if allowed.

Concrete Installation and Repair

- Schedule asphalt and concrete activities for dry weather.

- Take measures to protect any nearby storm drain inlets and adjacent watercourses, prior to breaking up asphalt or concrete (e.g. place san bags around inlets or work areas).
- Limit the amount of fresh concrete or cement mortar mixed, mix only what is needed for the job.
- Store concrete materials under cover, away from drainage areas. Secure bags of cement after they are open. Be sure to keep wind-blown cement powder away from streets, gutters, storm drains, rainfall, and runoff.
- Return leftover materials to the transit mixer. Dispose of small amounts of hardened excess concrete, grout, and mortar in the trash.
- Do not wash sweepings from exposed aggregate concrete into the street or storm drain. Collect and return sweepings to aggregate base stockpile, or dispose in the trash.
- Protect applications of fresh concrete from rainfall and runoff until the material has dried.
- Do not allow excess concrete to be dumped onsite, except in designated areas.
- Wash concrete trucks off site or in designated areas on site designed to preclude discharge of wash water to drainage system.

Controlling Litter

- Post "No Littering" signs and enforce anti-litter laws.
- Provide litter receptacles in busy, high pedestrian traffic areas of the community, at recreational facilities, and at community events.
- Cover litter receptacles and clean out frequently to prevent leaking/spillage or overflow.
- Clean parking lots on a regular basis with a street sweeper.

Training

- Provide regular training to field employees and/or contractors regarding surface cleaning and proper operation of equipment.
- Train employee and contractors in proper techniques for spill containment and cleanup.
- Use a training log or similar method to document training.

Spill Response and Prevention

- Refer to SC-11, Spill Prevention, Control & Cleanup.
- Have spill cleanup materials readily available and in a known location.
- Cleanup spills immediately and use dry methods if possible.
- Properly dispose of spill cleanup material.

Other Considerations

- Limitations related to sweeping activities at large parking facilities may include current sweeper technology to remove oil and grease.
- Surface cleaning activities that require discharges to the local sewering agency will require coordination with the agency.
- Arrangements for disposal of the swept material collected must be made, as well as accurate tracking of the areas swept and the frequency of sweeping.

Requirements

Costs

- The largest expenditures for sweeping and cleaning of sidewalks, plazas, and parking lots are in staffing and equipment. Sweeping of these areas should be incorporated into street sweeping programs to reduce costs.

Maintenance

Not applicable

Supplemental Information

Further Detail of the BMP

Community education, such as informing residents about their options for recycling and waste disposal, as well as the consequences of littering, can instill a sense of citizen responsibility and potentially reduce the amount of maintenance required by the municipality.

Additional BMPs that should be considered for parking lot areas include:

- Allow sheet runoff to flow into biofilters (vegetated strip and swale) and infiltration devices.
- Utilize sand filters or oleophilic collectors for oily waste in low concentrations.
- Arrange rooftop drains to prevent drainage directly onto paved surfaces.
- Design lot to include semi-permeable hardscape.
- Structural BMPs such as storm drain inlet filters can be very effective in reducing the amount of pollutants discharged from parking facilities during periods of rain.

References and Resources

Bay Area Stormwater Management Agencies Association (BASMAA). 1996. Pollution From Surface Cleaning Folder http://www.basmaa.org

Model Urban Runoff Program: A How-To Guide for Developing Urban Runoff Programs for Small Municipalities. Prepared by City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, Central Coast Regional Water Quality Control Board. July. 1998.

Oregon Association of Clean Water Agencies. Oregon Municipal Stormwater Toolbox for Maintenance Practices. June 1998.

Orange County Stormwater Program
http://www.ocwatersheds.com/stormwater/swp_introduction.asp

Santa Clara Valley Urban Runoff Pollution Prevention Program. 1997 Urban Runoff Management Plan. September 1997, updated October 2000.

Santa Clara Valley Urban Runoff Pollution Prevention Program. Maintenance Best Management Practices for the Construction Industry. Brochures: Landscaping, Gardening, and Pool; Roadwork and Paving; and Fresh Concrete and Mortar Application. June 2001.

San Diego Stormwater Co-permittees Jurisdictional Urban Runoff Management Plan. 2001. Municipal Activities Model Program Guidance. November.

Waste Handling and Disposal SC-75



Objectives

- Cover
- Contain
- Educate
- Reduce/Reuse

Targeted Constituents

Sediment	☑
Nutrients	☑
Trash	☑
Metals	☑
Bacteria	☑
Oil and Grease	☑
Organics	☑
Oxygen Demanding	☑

Description

It is important to control litter to eliminate trash and other materials in stormwater runoff. Waste reduction is a major component of waste management and should be encouraged through training and public outreach. Management of waste once it is collected may involve reuse, recycling, or proper disposal.

Approach

Pollution Prevention

- Reuse products when possible.
- Encourage recycling programs with recycling bins, used oil collection, etc.

Suggested Protocols

Solid Waste Collection

- Implement procedures, where applicable, to collect, transport, and dispose of solid waste at appropriate disposal facilities in accordance with applicable federal, state, and local laws and regulations.
- Include properly designed trash storage areas. If feasible provide cover over trash storage areas.
- Regularly inspect solid waste containers for structural damage. Repair or replace damaged containers as necessary.

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- Secure solid waste containers; containers must be closed tightly when not in use.
- Do not fill waste containers with washout water or any other liquid.
- Ensure that only appropriate solid wastes are added to the solid waste container. Certain wastes such as hazardous wastes, appliances, fluorescent lamps, pesticides, etc. may not be disposed of in solid waste containers (see chemical/ hazardous waste collection section below).
- Do not mix wastes; this can cause chemical reactions, make recycling impossible, and complicate disposal.
- Refer to SC-34 Waste Handling and Disposal for more information regarding solid waste facilities.

Waste Reduction and Recycling

- Recycle wastes whenever possible. Many types of waste can be recycled, recycling options for each waste type are limited. All gasoline, antifreeze, waste oil, and lead-acid batteries can be recycled. Latex and oil-based paint can be reused, as well as recycled. Materials that cannot be reused or recycled should either be incinerated or disposed of at a properly permitted landfill.
- Recycling is always preferable to disposal of unwanted materials.
- Recycling bins for glass, metal, newspaper, plastic bottles and other recyclable household solid wastes should be provided at public facilities and/or for residential curbside collection.

Controlling Litter

- Post “No Littering” signs and enforce anti-litter laws.
- Provide litter receptacles in busy, high pedestrian traffic areas of the community, at recreational facilities, and at community events.
- Clean out and cover litter receptacles frequently to prevent spillage.

Illegal Dumping

Substances illegally dumped on streets and into the storm drain system and creeks include paints, used oil and other automotive fluids, construction debris, chemicals, fresh concrete, leaves, grass clipping, and pet wastes.

- Post “No Dumping” signs with a phone number for reporting dumping and disposal. Signs should also indicate fines and penalties for illegal dumping.
- Landscaping and beautification efforts of hot spots might also discourage future dumping.
- See SC-74 Drainage System Maintenance, and SC-10 Non-Stormwater Discharges.

Requirements

Costs

- The costs for a solid waste source control program vary depending on the type of method. The cost of a community education program or a plan to increase the number of trash receptacles can be very minimal. Costs for structural controls such as trash racks, bar screens, and silt traps can be quite costly ranging from $250,000 to $900,000.

- A collection facility or curbside collection for used oil may result in significant costs. Commercial locations (automobile service stations, quick oil change centers, etc.) as collection points eliminate hauling and recycling costs.

- Collection and disposal of hazardous waste can be very expensive and requires trained operators; laboratory and detection equipment; and extensive record keeping including dates, types, and quantities.

- Use of volunteer work forces can lower storm drain stenciling program costs. Stenciling kits require procurement of durable/disposable items. The stenciling program can aid in the cataloging of the storm drain system. One municipality from the state of Washington has estimated that stenciling kits cost approximately $50 each. Stencils may cost about $8 each including the die cost on an order of 1,000. Re-orders cost about $1/stencil. Stencil designs may be available from other communities. Stencil kits should be provided on a loan basis to volunteer groups free of charge with the understanding that kit remnants are to be returned.

Maintenance

- The primary staff demand for stenciling programs is for program setup to provide marketing and training. Ongoing/follow-up staff time is minimal because of volunteer services.

- Staffing requirements are minimal for oil recycling programs if collection/recycling is contracted out to a used oil hauler/recycler or required at commercial locations.

- Staff requirements for maintaining good housekeeping BMPs at waste handling sites is minimal.

Supplemental Information

Further Detail of the BMP

Waste Reduction

An approach to reduce stormwater pollution from waste handling and disposal is to assess activities and reduce waste generation. The assessment is designed to find situations where waste can be eliminated or reduced and emissions and environmental damage can be minimized. The assessment involves collecting process specific information, setting pollution prevention targets, and developing, screening and selecting waste reduction options for further study. Starting a waste reduction program is economically beneficial because of reduced raw material purchases and lower waste disposal fees.

References and Resources

Best Management Practices Program for Pollution Prevention, City and County of San Francisco, Uribe & Associates, Oakland, California, 1990.

Harvard University. 2002. Solid Waste Container Best Management Practices – Fact Sheet On-Line Resources – Environmental Health and Safety.

Model Urban Runoff Program: A How-To-Guide for Developing Urban Runoff Programs for Small Municipalities. Prepared by City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, Central Coast Regional Water Quality Control Board. July 1998. (Revised February 2002 by the California Coastal Commission).

Orange County Stormwater Program
http://www.ocwatersheds.com/StormWater/swp_introduction.asp.

Santa Clara Valley Urban Runoff Pollution Prevention Program. 1997 Urban Runoff Management Plan. September 1997, updated October 2000.

CONTECH®
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Modular Wetlands® Linear
Operation & Maintenance Manual



MODULAR WETLANDS®

MODULAR WETLANDS® LINEAR OPERATION & MAINTENANCE MANUAL

TABLE OF CONTENTS

Overview 3

Inspection Summary 4

Inspection Process 5

Maintenance Indicators 6

Inspection Process 7

Maintenance Summary 8

- Pretreatment Chamber 9
- Prefilter Cartridge 10
- Biofiltration Chamber 11
- Discharge Chamber 12

Inspection Report 13

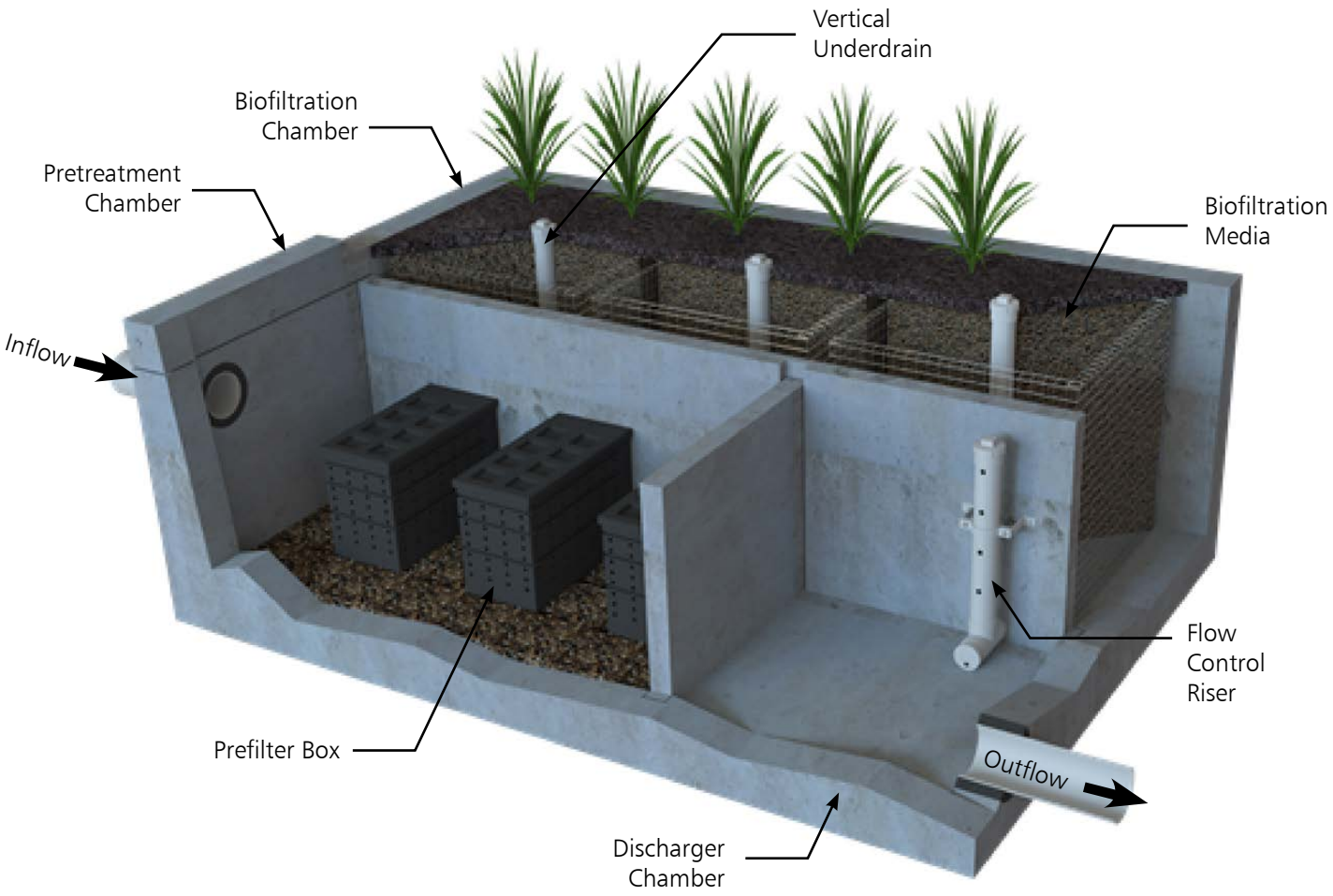
Cleaning and Maintenance Report 14

OVERVIEW

The Modular Wetlands® Linear Biofilter is designed to remove high levels of trash, debris, sediments, nutrients, metals, and hydrocarbons. Its simple design allows for quick and easy installation. The system is housed in a standard precast structure and can be installed at various depths to meet site-specific conditions.

INTRODUCTION

This is the Modular Wetlands Linear Biofilter operation and maintenance manual. Before starting, read the instructions and equipment lists closely. It is important to follow all necessary safety procedures associated with state and local regulations. Some steps required confined space entry. Please contact Contech for more information on pre-authorized third party contractors who can provide installation services in your area. For a list of service providers in your area please visit: www.conteches.com/maintenance.



INSTRUCTIONS

INSPECTION SUMMARY

Stormwater regulations require BMPs be inspected and maintained to ensure they are operating as designed to allow for effective pollutant removal and provide protection to receiving water bodies. It is recommended that inspections be performed multiple times during the first year to assess the site specific loading conditions. The first year of inspections can be used to set inspection and maintenance intervals for subsequent years to ensure appropriate maintenance is provided.

- Inspect pre-treatment, biofiltration, and discharge chambers an average of once every six to twelve months. Varies based on site specific and local conditions.
- Average inspection time is approximately 15 minutes. Always ensure appropriate safety protocol and procedures are followed.

The following is a list of equipment required to allow for simple and effective inspection of the Modular Wetlands Linear:

- Modular Wetlands Linear Inspection Form
- Flashlight
- Manhole hook or appropriate tools to remove access hatches and covers
- Appropriate traffic control signage and procedures
- Measuring pole and/or tape measure
- Protective clothing and eye protection
- 7/16" open or closed ended wrench
- Large permanent black marker (initial inspections only - first year)

Note: entering a confined space requires appropriate safety and certification. It is generally not required for routine inspections of the system

INSPECTION AND MAINTENANCE NOTES

1. Following maintenance and/or inspection, it is recommended that the maintenance operator prepare a maintenance/inspection record. The record should include any maintenance activities performed, amount and description of debris collected, and condition of the system and its various filter mechanisms.
2. The owner should keep maintenance/inspection record(s) for a minimum of five years from the date of maintenance. These records should be made available to the governing municipality for inspection upon request at any time.
3. Transport all debris, trash, organics, and sediments to approved facility for disposal in accordance with local and state requirements.
4. Entry into chambers may require confined space training based on state and local regulations.
5. No fertilizer shall be used in the biofiltration chamber.
6. Irrigation should be provided as recommended by manufacturer and/or landscape architect. Amount of irrigation required is dependent on plant species. Some plants may not require irrigation after initial establishment.

INSPECTION PROCESS

1. Prepare the inspection form by writing in the necessary information including project name, location, date & time, unit number and other information (see inspection form).
2. Observe the inside of the system through the access covers. If minimal light is available and vision into the unit is impaired, utilize a flashlight to see inside the system and all of its chambers.
3. Look for any out of the ordinary obstructions in the inflow pipe, pre-treatment chamber, biofiltration chamber, discharge chamber or outflow pipe. Write down any observations on the inspection form.
4. Through observation and/or digital photographs, estimate the amount of trash, debris accumulated in the pre-treatment chamber. Utilizing a tape measure or measuring stick, estimate the amount of sediment in this chamber. Record this depth on the inspection form.
5. Through visual observation, inspect the condition of the pre-filter cartridges. Look for excessive build-up of sediment on the cartridges, any build-up on the tops of the cartridges, or clogging of the holes. Record this information on the inspection form. The prefilter cartridges can be further inspected by removing the cartridge tops and assessing the color of the BioMediaGREEN filter cubes (requires entry into pre-treatment chamber - see notes previous notes regarding confined space entry). Record the color of the material. New material is a light green color. As the media becomes clogged, it will turn darker in color, eventually becoming dark brown or black. The closer to black the media is the higher percentage that the media is exhausted and is in need of replacement.

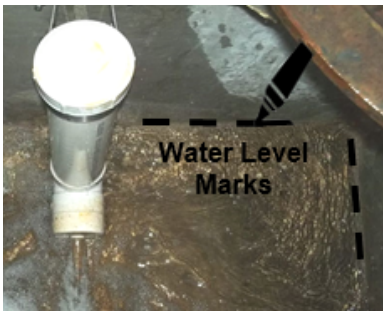


6. The biofiltration chamber is generally maintenance-free due to the system's advanced pre-treatment chamber. For units which have open planters with vegetation, it is recommended that the vegetation be inspected. Look for any plants that are dead or showing signs of disease or other negative stressors. Record the general health of the plants on the inspection form and indicate through visual observation or digital photographs if trimming of the vegetation is required.
7. The discharge chamber houses the orifice control structure, drain down filter (only in California - older models), and is connected to the outflow pipe. It is important to check to ensure the orifice is in proper operating conditions and free of any obstructions. It is also important to assess the condition of the drain down filter media which utilizes a block form of the BioMediaGREEN. Assess in the same manner as the cubes in the pre-filter cartridge as mentioned above. Generally, the discharge chamber will be clean and free of debris. Inspect the water marks on the side walls. If possible, inspect the discharge chamber during a rain event to assess the amount of flow leaving the system while it is at 100% capacity (pre-treatment chamber water level at peak HGL - top of bypass weir). The water level of the flowing water should be compared to the watermark level on the side walls, which is an indicator of the highest discharge rate the system achieved when initially installed. Record on the form if there is any difference in level from the watermark in inches.

NOTE: During the first few storms, the water level in the outflow chamber should be observed and a 6" long horizontal watermark line drawn (using a large permanent marker) at the water level in the discharge chamber while the system is operating at 100% capacity. The diagram below illustrates where the line should be drawn. This line is a reference point for future inspections of the system.

Water level in the discharge chamber is a function of flow rate and pipe size. Observation of the water level during the first few months of operation can be used as a benchmark level for future inspections. The initial mark and all future observations shall be made when the system is at 100% capacity (water level at maximum level in the pre-treatment chamber). If future water levels are below this mark when the system is at 100% capacity, this is an indicator that maintenance to the pre-filter cartridges may be needed.

8. Finalize the inspection report for analysis by the maintenance manager to determine if maintenance is required.





MAINTENANCE INDICATORS

Based upon the observations made during inspection, maintenance of the system may be required based on the following indicators:

- Missing or damaged internal components or cartridges
- Obstructions in the system or its inlet and/or outlet pipes
- Excessive accumulation of floatables in the pretreatment chamber in which the length and width of the chamber is fully impacted more than 18". See photo below.
- Excessive accumulation of sediment in the pretreatment chamber of more than 6" in depth.
- Excessive accumulation of sediment on the BioMediaGREEN media housed within the pretreatment cartridges. The following chart shows photos of the condition of the BioMediaGREEN contained within the pre-filter cartridges. When media is more than 85% clogged, replacement is required.
- Excessive accumulation of sediment on the BioMediaGREEN media housed within the pretreatment cartridges. When media is more than 85% clogged, replacement is required. The darker the BioMediaGREEN, the more clogged it is and in need of replacement.





INSPECTION PROCESS

- Excessive accumulation of sediment on the BioMediaGREEN media housed within the drain down filter (California only - older models). The following photos show the condition of the BioMediaGREEN contained within the drain down filter. When media is more than 85% clogged, replacement is required.





- Overgrown vegetation.



- Water level in the discharge chamber during 100% operating capacity (pretreatment chamber water level at max height) is lower than the water mark by 20%.

MAINTENANCE SUMMARY

The time has come to maintain your Modular Wetlands® Linear. All necessary pre-maintenance steps must be carried out before maintenance occurs. Once traffic control has been set up per local and state regulations and access covers have been safely opened, the maintenance process can begin. It should be noted that some maintenance activities require confined space entry. All confined space requirements must be strictly followed before entry into the system. In addition, the following is recommended:

- Prepare the maintenance form by writing in the necessary information including project name, location, date & time, unit number and other info (see maintenance form).
- Set up all appropriate safety and cleaning equipment.
- Ensure traffic control is set up and properly positioned.
- Prepared pre-checks (OSHA, safety, confined space entry) are performed.

The following is a list of equipment to required for maintenance of the Modular Wetlands® Linear:

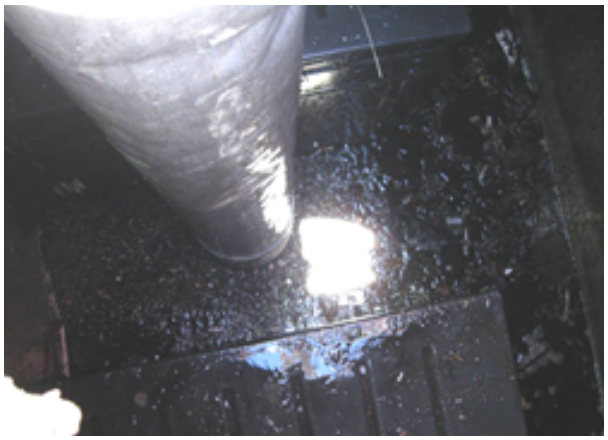
- Modular Wetlands Linear Maintenance Form
- Manhole hook or appropriate tools to access hatches and covers
- Protective clothing, flashlight, and eye protection
- 7/16" open or closed ended wrench
- Vacuum assisted truck with pressure washer
- Replacement BioMediaGREEN for pre-filter cartridges if required (order from one of Contech's Maintenance Team members at https://www.conteches.com/maintenance).

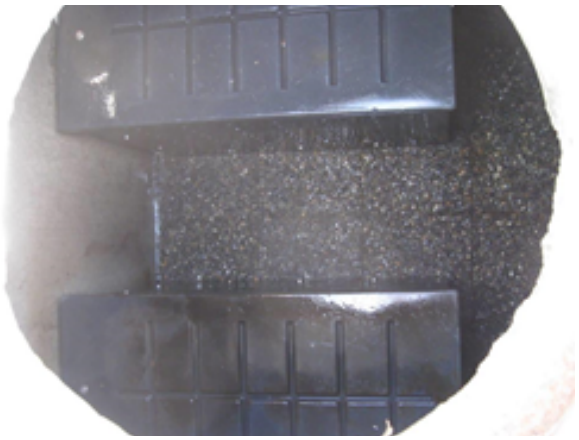
MAINTENANCE | PRETREATMENT CHAMBER

1. Remove access cover over pre-treatment chamber and position vacuum truck accordingly.
2. With a pressure washer, spray down pollutants accumulated on walls and pre-filter cartridges.
3. Vacuum out pre-treatment chamber and remove all accumulated pollutants including trash, debris, and sediments. Be sure to vacuum the floor until the pervious pavers are visible and clean.
4. If pre-filter cartridges require media replacement, continue to step 5. If not, replace access cover and move to step 11.





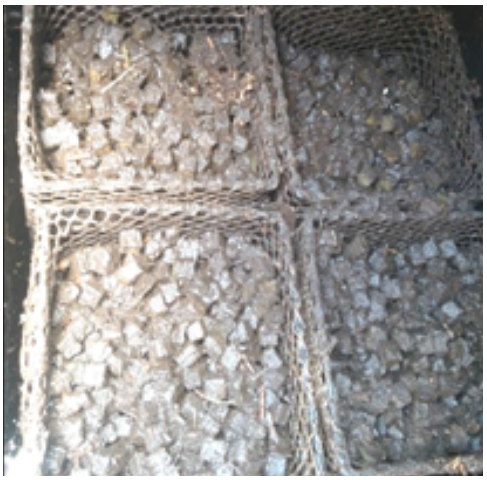




MAINTENANCE | PREFILTER CARTRIDGES

5. After successfully cleaning out the pre-treatment chamber (previous page) enter the pre-treatment chamber.
6. Unscrew the two bolts (circles shown below) holding the lid on each cartridge filter and remove lid.

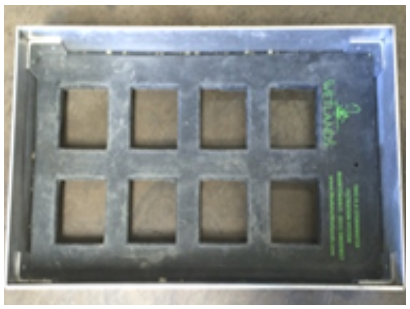


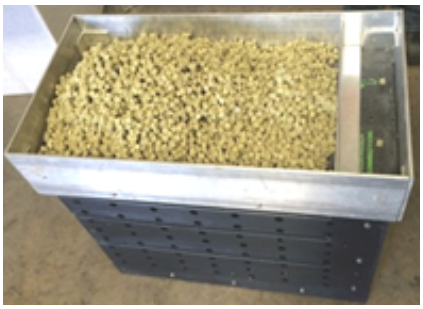


7. Place the vacuum hose over each individual media filter to suck out filter media.



8. Once filter media has been sucked out, use a pressure washer to spray down the inside of the cartridge and it's media cages. Remove cleaned media cages and place to the side. Once removed, the vacuum hose can be inserted into the cartridge to vacuum out any remaining material near the bottom of the cartridge.
9. Reinstall media cages and fill with new media from the manufacturer or outside supplier. Manufacturer will provide specification of media and sources to purchase. Utilize the manufacture-provided refilling tray and place on top of the cartridge. Fill the tray with new bulk media and shake down into place. Using your hands, lightly compact the media into each filter cage. Once the cages are full, remove the refilling tray and replace the cartridge top, ensuring bolts are properly tightened.







10. Exit the pre-treatment chamber. Replace access hatch or manhole cover.

MAINTENANCE | BIOFILTRATION CHAMBER

11. In general, the biofiltration chamber is maintenance-free with the exception of maintaining the vegetation. The Modular Wetlands Linear utilizes vegetation similar to surrounding landscape areas, therefore trim vegetation to match surrounding vegetation. If any plants have died, replace them with new ones.



12. Each vertical under drain on the biofiltration chamber has a removable (threaded cap) that can be taken off to check any blockages or root growth. Once removed, a jetting attachment can be used to clean out the under drain and orifice riser.
13. As with all biofilter systems, at some point the biofiltration media (WetlandMedia) will need to be replaced. Either because of physical clogging of sorptive exhaustion of the media ion exchange capacity (to remove dissolved metals and phosphorous). The general life of this media is 10 to 20 years based on site specific conditions and pollutant loading. Utilize the vacuum truck to vacuum out the media by placing the hose into the chamber. Once all the media is removed use the power washer to spray down all the netting on the outer metal cage. Inspect the netting for any damage or holes. If the netting is damaged it can be repaired or replaced with guidance by the manufacturer.
14. Contact one of Contech's Maintenance Team members at https://www.conteches.com/maintenance to order new WetlandMedia. The quantity of media needed can be determined by providing the model number and unit depth. Media will be provided in super sacks for easy installation. Each sack will weigh between 1000 and 2000 lbs. A lifting apparatus (backhoe, boom truck, or other) is recommended to position the super sack over the biofiltration chamber. Fill the media cages up to the same level as the old media. Replant with vegetation.





MAINTENANCE | DISCHARGE CHAMBER

15. Remove access hatch or manhole cover over discharge chamber.
16. Enter chamber to gain access to the drain down filter. Unlock the locking mechanism and lift up drain down filter housing to remove used BioMediaGREEN filter block as shown below. *NOTE: Drain down filter is only found on units installed in California prior to 2023. If no drain down filter is present, skip steps 16 and 17.*





17. Insert a new BioMediaGREEN filter block and lock drain down filter housing back in place.
18. Replace access hatch or manhole cover over discharge chamber.

NOTES

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Inspection Report
Modular Wetlands Linear

Project Name _____

Project Address _____
(city) (Zip Code)

Owner / Management Company _____

Contact _____ Phone ( ) –

For Office Use Only
(Reviewed By)
(Date)
Office personnel to complete section to the left.

Inspector Name _____ Date ____/____/____ Time _____ AM / PM

Type of Inspection ☐ Routine ☐ Follow Up ☐ Complaint ☐ Storm Storm Event in Last 72-hours? ☐ No ☐ Yes

Weather Condition _____ Additional Notes _____

Inspection Checklist

Modular Wetland System Type (Curb, Grate or UG Vault): _____ Size (22', 14' or etc.): _____

Structural Integrity:	**Yes**	**No**	**Comments**
Damage to pre-treatment access cover (manhole cover/grate) or cannot be opened using normal lifting pressure?			
Damage to discharge chamber access cover (manhole cover/grate) or cannot be opened using normal lifting pressure?			
Does the MWS unit show signs of structural deterioration (cracks in the wall, damage to frame)?			
Is the inlet/outlet pipe or drain down pipe damaged or otherwise not functioning properly?			
Working Condition:			
Is there evidence of illicit discharge or excessive oil, grease, or other automobile fluids entering and clogging the unit?			
Is there standing water in inappropriate areas after a dry period?			
Is the filter insert (if applicable) at capacity and/or is there an accumulation of debris/trash on the shelf system?			
Does the depth of sediment/trash/debris suggest a blockage of the inflow pipe, bypass or cartridge filter? If yes, specify which one in the comments section. Note depth of accumulation in in pre-treatment chamber.			Depth:
Does the cartridge filter media need replacement in pre-treatment chamber and/or discharge chamber?			Chamber:
Any signs of improper functioning in the discharge chamber? Note issues in comments section.			
Other Inspection Items:			
Is there an accumulation of sediment/trash/debris in the wetland media (if applicable)?			
Is it evident that the plants are alive and healthy (if applicable)? Please note Plant Information below.			
Is there a septic or foul odor coming from inside the system?			

Waste:	**Yes**	**No**
Sediment / Silt / Clay		
Trash / Bags / Bottles		
Green Waste / Leaves / Foliage		

Recommended Maintenance	
No Cleaning Needed	
Schedule Maintenance as Planned	
Needs Immediate Maintenance	

Plant Information	
Damage to Plants	
Plant Replacement	
Plant Trimming	

Additional Notes: _____

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Cleaning and Maintenance Report
Modular Wetlands Linear

Project Name _____

Project Address _____
(city) (Zip Code)

Owner / Management Company _____

Contact _____ Phone ( ) –

For Office Use Only
(Reviewed By)
(Date)
Office personnel to complete section to the left.

Inspector Name _____ Date ____/____/____ Time _____AM / PM

Type of Inspection ☐ Routine ☐ Follow Up ☐ Complaint ☐ Storm Storm Event in Last 72-hours? ☐ No ☐ Yes

Weather Condition _____ Additional Notes _____

Site Map #	GPS Coordinates of Insert	Manufacturer / Description / Sizing	Trash Accumulation	Foliage Accumulation	Sediment Accumulation	Total Debris Accumulation	Condition of Media 25/50/75/100 (will be changed @ 75%)	Operational Per Manufactures' Specifications (If not, why?)
	Lat: Long:	MWS Catch Basins						
		MWS Sedimentation Basin						
		Media Filter Condition						
		Plant Condition						
		Drain Down Media Condition						
		Discharge Chamber Condition						
		Drain Down Pipe Condition						
		Inlet and Outlet Pipe Condition						

Comments:



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SUPPORT

DRAWINGS AND SPECIFICATIONS ARE AVAILABLE AT WWW.CONTECHES.COM

Modular Wetlands Maintenance Guide 1/2023

APPENDIX I: MODULAR WETLANDS WASHINGTON STATE TAPE PROGRAM APPROVAL

WASHINGTON STATE DEPARTMENT OF ECOLOGY

January 2024

GENERAL USE LEVEL DESIGNATION FOR BASIC (TSS) METALS AND PHOSPHORUS TREATMENT

For

Contech Engineered Solutions, LLC (Contech) Modular Wetlands Linear

Ecology's Decision

Based on Modular Wetland Systems, Inc, application submissions, including the Technical Evaluation Report, dated April 1, 2014, Ecology hereby issues the following use level designation:

1. General Use Level Designation (GULD) for the Modular Wetlands Linear Stormwater Treatment System for Basic, Phosphorus, and Metals treatment
    - Sized at a hydraulic loading rate of:
        - 1 gallon per minute (gpm) per square foot (sq ft) of Wetland Cell Surface Area
        - Prefilter box (approved at either 22 inches or 33 inches tall)
            - 3.0 gpm/sq ft of prefilter box surface area for moderate pollutant loading rates (low to medium density residential basins).
            - 2.1 gpm/sq ft of prefilter box surface area for high pollutant loading rates (commercial and industrial basins).
2. Ecology approves the Modular Wetlands Linear Stormwater Treatment System units for Basic, Phosphorus, and Metals treatment at the hydraulic loading rate listed above. Designers shall calculate the water quality design flow rates using the following procedures:
    - Western Washington: For treatment installed upstream of detention or retention, the water quality design flow rate is the peak 15-minute water quality treatment design flow rate as calculated using the latest version of the Western Washington Hydrology Model or other Ecology- approved continuous runoff model.

- Eastern Washington: For treatment installed upstream of detention or retention, the water quality design flow rate is the peak 15-minute water quality treatment design flow rate as calculated using one of the three methods described in Chapter 2.7.6 of the Stormwater Management Manual for Eastern Washington (SWMMEW) or local manual.
- Entire State: For treatment installed downstream of detention, the water quality treatment design flow rate is the full 2-year release rate of the detention facility.

3. These use level designations have no expiration date but may be amended or revoked by Ecology, and are subject to the conditions specified below.

Ecology's Conditions of Use

Applicants shall comply with the following conditions:

1) Design, assemble, install, operate, and maintain the Modular Wetlands Linear Stormwater Treatment System units, in accordance with Contech's. applicable manuals and documents and the Ecology Decision.
2) Each site plan must undergo Contech review and approval before site installation. This ensures that site grading and slope are appropriate for use of a Modular Wetlands Linear Stormwater Treatment System unit.
3) Modular Wetlands Linear Stormwater Treatment System media shall conform to the specifications submitted to and approved by Ecology.
4) The applicant tested the Modular Wetlands Linear Stormwater Treatment System with an external bypass weir. This weir limited the depth of water flowing through the media, and therefore the active treatment area, to below the root zone of the plants. This GULD applies to Modular Wetlands Linear Stormwater Treatment Systems whether plants are included in the final product or not.
5) Maintenance: The required maintenance interval for stormwater treatment devices is often dependent upon the degree of pollutant loading from a particular drainage basin. Therefore, Ecology does not endorse or recommend a "one size fits all" maintenance cycle for a particular model/size of stormwater treatment technology.
    - Typically, Contech designs Modular Wetland systems for a target prefilter media life of 6 to 12 months.
    - Indications of the need for maintenance include effluent flow decreasing to below the design flow rate or decrease in treatment below required levels.
    - Owners/operators must inspect Modular Wetland systems for a minimum of twelve months from the start of post-construction operation to determine site-specific maintenance schedules and requirements. You must conduct inspections monthly during the wet season, and every other month during the dry season (According to the SWMMWW, the wet season in western Washington is October 1 to April 30. According to the SWMMEW, the wet

season in eastern Washington is October 1 to June 30). After the first year of operation, owners/operators must conduct inspections based on the findings during the first year of inspections.

- Conduct inspections by qualified personnel, follow manufacturer's guidelines, and use methods capable of determining either a decrease in treated effluent flowrate and/or a decrease in pollutant removal ability.
- When inspections are performed, the following findings typically serve as maintenance triggers:
    - Standing water remains in the vault between rain events, or
    - Bypass occurs during storms smaller than the design storm.
    - If excessive floatables (trash and debris) are present (but no standing water or excessive sedimentation), perform a minor maintenance consisting of gross solids removal, not prefilter media replacement.
    - Additional data collection will be used to create a correlation between pretreatment chamber sediment depth and pre-filter clogging (see *Issues to be Addressed by the Company* section below)

6) Discharges from the Modular Wetlands Linear Stormwater Treatment System units shall not cause or contribute to water quality standards violations in receiving waters.

Applicant:	Contech Engineered Solutions, LLC
Applicant's Address:	11815 NE Glenn Widing Dr. Portland, OR 97220

Application Documents:

Original Application for Conditional Use Level Designation, Modular Wetland System, Linear Stormwater Filtration System Modular Wetland Systems, Inc., January 2011

Quality Assurance Project Plan: Modular Wetland System – Linear Treatment System Performance Monitoring Project, draft, January 2011

Revised Application for Conditional Use Level Designation, Modular Wetland System, Linear Stormwater Filtration System Modular Wetland Systems, Inc., May 2011

Memorandum: Modular Wetland System-Linear GULD Application Supplementary Data, April 2014

Technical Evaluation Report: Modular Wetland System Stormwater Treatment System Performance Monitoring, April 2014

Applicant's Use Level Request:

- General Use Level Designation as a Basic, Metals, and Phosphorus treatment device in accordance with Ecology's Guidance for Evaluating Emerging Stormwater Treatment Technologies Technology Assessment Protocol – Ecology (TAPE) January 2011 Revision.

Applicant's Performance Claims:

- The Modular Wetlands Linear is capable of removing a minimum of 80-percent of TSS from stormwater with influent concentrations between 100 and 200 mg/L.
- The Modular Wetlands Linear is capable of removing a minimum of 50-percent of total phosphorus from stormwater with influent concentrations between 0.1 and 0.5 mg/L.
- The Modular Wetlands Linear is capable of removing a minimum 30-percent of dissolved copper from stormwater with influent concentrations between 0.005 and 0.020 mg/L.
- The Modular Wetlands Linear is capable of removing a minimum 60-percent of dissolved zinc from stormwater with influent concentrations between 0.02 and 0.30 mg/L.

Ecology's Recommendations:

- Contech has shown Ecology, through laboratory and field-testing, that the Modular Wetlands Linear Stormwater Treatment System filter system is capable of attaining Ecology's Basic, Phosphorus, and Metals treatment goals.

Findings of Fact:

<u>Laboratory Testing</u>

The Modular Wetlands Linear Stormwater Treatment System has the:

- Capability to remove 99 percent of total suspended solids (using Sil-Co-Sil 106) in a quarter-scale model with influent concentrations of 270 mg/L.
- Capability to remove 91 percent of total suspended solids (using Sil-Co-Sil 106) in laboratory conditions with influent concentrations of 84.6 mg/L at a flow rate of 3.0 gpm per square foot of media.
- Capability to remove 93 percent of dissolved Copper in a quarter-scale model with influent concentrations of 0.757 mg/L.
- Capability to remove 79 percent of dissolved Copper in laboratory conditions with influent concentrations of 0.567 mg/L at a flow rate of 3.0 gpm per square foot of media.

- Capability to remove 80.5-percent of dissolved Zinc in a quarter-scale model with influent concentrations of 0.95 mg/L at a flow rate of 3.0 gpm per square foot of media.
- Capability to remove 78-percent of dissolved Zinc in laboratory conditions with influent concentrations of 0.75 mg/L at a flow rate of 3.0 gpm per square foot of media.

Field Testing

- Modular Wetland Systems, Inc. conducted monitoring of an MWS-Linear (Model # MWS-L-4-13) from April 2012 through May 2013, at a transportation maintenance facility in Portland, Oregon. The manufacturer collected flow-weighted composite samples of the system's influent and effluent during 28 separate storm events. The system treated approximately 75 percent of the runoff from 53.5 inches of rainfall during the monitoring period. The applicant sized the system at 1 gpm/sq ft. (wetland media) and 3gpm/sq ft. (prefilter).
- Influent TSS concentrations for qualifying sampled storm events ranged from 20 to 339 mg/L. Average TSS removal for influent concentrations greater than 100 mg/L (n=7) averaged 85 percent. For influent concentrations in the range of 20-100 mg/L (n=18), the upper 95 percent confidence interval about the mean effluent concentration was 12.8 mg/L.
- Total phosphorus removal for 17 events with influent TP concentrations in the range of 0.1 to 0.5 mg/L averaged 65 percent. A bootstrap estimate of the lower 95 percent confidence limit (LCL95) of the mean total phosphorus reduction was 58 percent.
- The lower 95 percent confidence limit of the mean percent removal was 60.5 percent for dissolved zinc for influent concentrations in the range of 0.02 to 0.3 mg/L (n=11). The lower 95 percent confidence limit of the mean percent removal was 32.5 percent for dissolved copper for influent concentrations in the range of 0.005 to 0.02 mg/L (n=14) at flow rates up to 28 gpm (design flow rate 41 gpm). Laboratory test data augmented the data set, showing dissolved copper removal at the design flow rate of 41 gpm (93 percent reduction in influent dissolved copper of 0.757 mg/L).

Issues to be addressed by the Company:

1. Contech should collect maintenance and inspection data for the first year on all installations in the Northwest in order to assess standard maintenance requirements for various land uses in the region. Contech should use these data to establish required maintenance cycles.
2. Contech should collect pre-treatment chamber sediment depth data for the first year of operation for all installations in the Northwest. Contech will use these data to create a correlation between sediment depth and pre-filter clogging.

Technology Description:

Download at https://www.conteches.com/modular-wetlands

Contact Information:

Applicant: Jeremiah Lehman
Contech Engineered Solutions, LLC
11815 NE Glenn Widing Dr.
Portland, OR 97220
Jeremiah.Lehman@ContechES.com

Applicant website: http://www.conteches.com

Ecology web link: http://www.ecy.wa.gov/programs/wg/stormwater/newtech/index.html

Ecology: Douglas C. Howie, P.E.
Department of Ecology
Water Quality Program
(360) 870-0983
douglas.howie@ecy.wa.gov

Revision History

Date	Revision
June 2011	Original use-level-designation document
September 2012	Revised dates for TER and expiration
January 2013	Modified Design Storm Description, added Revision Table, added maintenance discussion, modified format in accordance with Ecology standard
December 2013	Updated name of Applicant
April 2014	Approved GULD designation for Basic, Phosphorus, and Enhanced treatment
December 2015	Updated GULD to document the acceptance of MWS – Linear Modular Wetland installations with or without the inclusion of plants
July 2017	Revised Manufacturer Contact Information (name, address, and email)
December 2019	Revised Manufacturer Contact Address
July 2021	Added additional prefilter sized at 33 inches
August 2021	Changed “Prefilter” to “Prefilter box”
November 2022	Changed Contacts to Contech ES
January 2024	Revised Dissolved Metals (Enhanced) to Metals

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October 15, 2024

Andrew Salas, Chairperson
Gabrieleno Band of Mission Indians – Kizh Nation
PO Box 393
Covina, CA 91723

Re: Consultation on Proposed Barton Road Dutch Bros Project Located in Grand Terrace, CA Pursuant to Public Resources Code §21080.3.1(d)

Dear Mr. Salas:

This letter is to notify you of Conditional Use Permit (CUP 24-02), Site and Architectural Review (SA 24-03), and Environmental (E 24-01) filed by Dutch Bros Coffee, LLC (applicant), represented by Mr. John Caglia, to construct and operate a drive-through coffee shop on a 1.0-acre site at 22115 Barton Road in the City of Grand Terrace, California. The property is zoned Barton Road Specific Plan – General Commercial (Planning Area 1) and is designated as General Commercial in the City's General Plan Use Element. Please refer to the Project Description below for a detailed description of the entitlement applications.

The project site is located in an area of the City of Grand Terrace that is generally characterized by commercial uses, residential uses, public/institutional uses, roadway features, and some undeveloped land that is planned for development. The approximately 1.0-acre site is developed with an approximately 1,500-square foot former auto repair shop/fueling station, approximately 15,815 square feet of associated asphalt parking, and approximately 26,575 square feet of vacant land comprised of ruderal vegetation maintained pursuant to the City's Fire Code. There are no trees or rock outcroppings located on the project site and no vegetation that could be used as habitat for wildlife. The project site is located immediately east of the Barton Road entrance to I-215.

Pursuant to Public Resources Code §21080.3.1(d) if you wish to initiate consultation on this proposed project, please send a consultation request within thirty (30) days of receiving this notification to me via e-mail at shutter@grandterrace-ca.gov or by U.S. Postal Service (USPS) to the attention of Scott Hutter, Planning and Development Services Director, City of Grand Terrace (Lead Agency) Planning Division, 22795 Barton Rd., Grand Terrace, CA 92313. You may also reach me via phone at (909) 954-5177. If you prefer to meet with the City of Grand Terrace in person, please contact me and I will arrange a meeting.

Project Title: Barton Road Dutch Bros Project

Project Location: The Project site is located at 22115 Barton Road in the City of Grand Terrace, San Bernardino County, California (See Attachment 1, Project Location Map). The project site is comprised of two parcels (Assessor Parcel Numbers (APNs) 1167-231-10 & -11), and a vacant lot located immediately to the south of these parcels that does not have an APN.

Project Description: The proposed project would include demolition of the existing auto repair shop building and construction of a 950-square foot Dutch Bros coffee shop with drive-through and walk-up service (see Attachment 2, Preliminary Site Plan). The project would also include approximately 14,692 square feet of ornamental landscaping, 18,052 square feet of parking and drive aisles, 2,765 square feet of walkways, and an approximately 7,000-square foot pocket park in the southwest portion of the park that would be available for public use. The proposed pocket park would include grass, small ornamental trees, a covered shade structure, benches, and an artistic sculpture. The proposed drive-through portion of the project would include a double drive-through lane with approximately 620 linear feet of stacking to accommodate 29 vehicles and an exit/bypass lane. The proposed parking area would include a total of 9 parking stalls, one of which would be Americans with Disabilities Act (ADA) accessible. Vehicular access to the proposed parking area would be provided via a 26-foot wide driveway in the northwestern portion of the site, which would provide for both ingress and egress. The project would also provide an entrance to the double drive-through lane via a new 22-foot wide driveway in the southwestern portion of the site at the terminus of the Michigan Street cul-de-sac. Finally, the project would provide a 17-foot wide exit-only driveway in the southern portion of the parking area just north of the drive-through entrance. Vehicles exiting the drive-through lane would be directed to exit via the driveway in the northwestern portion of the site, while vehicles in the parking area would be directed to exit via both driveways. Dutch Bros Coffee is proposing to operate the coffee shop 24 hours a day, if the market warrants. The project would generate three (3) to four (4) full-time employees and twenty-five (25) to thirty (30) part-time employees.

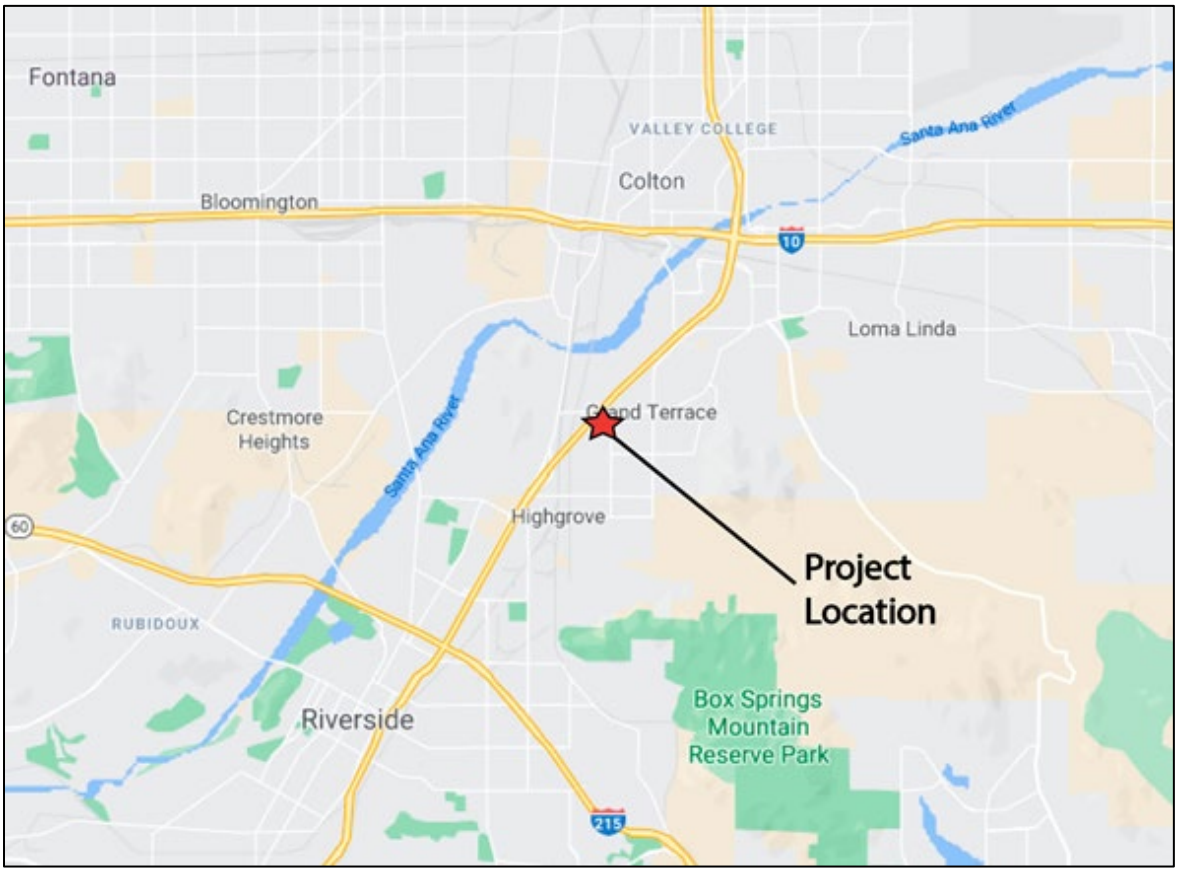
Again, please contact me within thirty days (30) days should you wish to initiate consultation pursuant to Government Code § 21083.3.1(d).

Sincerely,

Scott Hutter
Planning and Development
Services Director

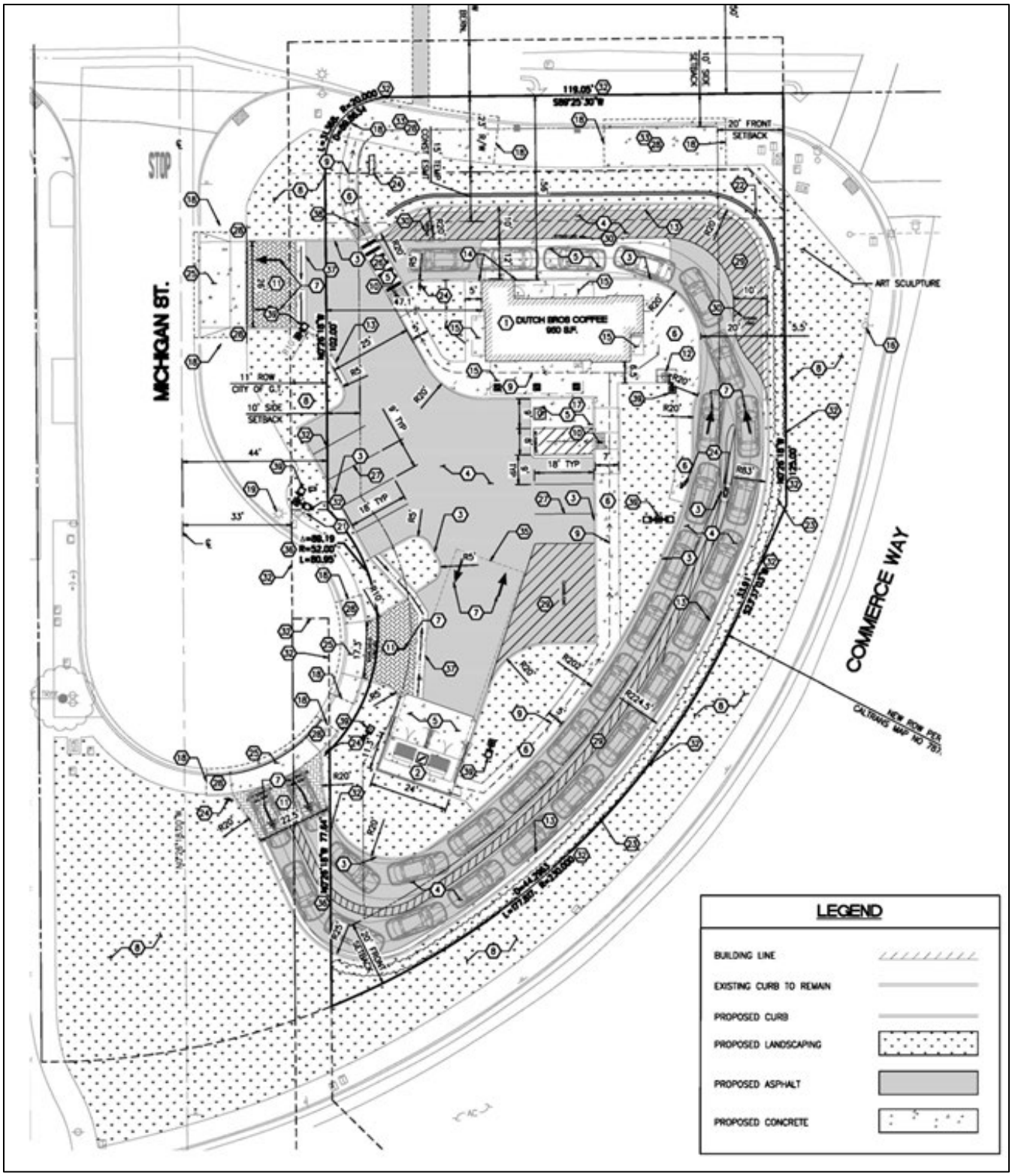
Enclosures

Attachment 1: Project Location Map





Attachment 2: Preliminary Site Plan



October 15, 2024

Goldie Walker, Chairperson
Serrano Nation of Mission Indians
P.O. Box 343
Patton, CA 92369

Re: Consultation on Proposed Barton Road Dutch Bros Project Located in Grand Terrace, CA Pursuant to Public Resources Code §21080.3.1(d)

Dear Ms. Walker:

This letter is to notify you of Conditional Use Permit (CUP 24-02), Site and Architectural Review (SA 24-03), and Environmental (E 24-01) filed by Dutch Bros Coffee, LLC (applicant), represented by Mr. John Caglia, to construct and operate a drive-through coffee shop on a 1.0-acre site at 22115 Barton Road in the City of Grand Terrace, California. The property is zoned Barton Road Specific Plan – General Commercial (Planning Area 1) and is designated as General Commercial in the City's General Plan Use Element. Please refer to the Project Description below for a detailed description of the entitlement applications.

The project site is located in an area of the City of Grand Terrace that is generally characterized by commercial uses, residential uses, public/institutional uses, roadway features, and some undeveloped land that is planned for development. The approximately 1.0-acre site is developed with an approximately 1,500-square foot former auto repair shop/fueling station, approximately 15,815 square feet of associated asphalt parking, and approximately 26,575 square feet of vacant land comprised of ruderal vegetation maintained pursuant to the City's Fire Code. There are no trees or rock outcroppings located on the project site and no vegetation that could be used as habitat for wildlife. The project site is located immediately east of the Barton Road entrance to I-215.

Pursuant to Public Resources Code §21080.3.1(d) if you wish to initiate consultation on this proposed project, please send a consultation request within thirty (30) days of receiving this notification to me via e-mail at shutter@grandterrace-ca.gov or by U.S. Postal Service (USPS) to the attention of Scott Hutter, Planning and Development Services Director, City of Grand Terrace (Lead Agency) Planning Division, 22795 Barton Rd., Grand Terrace, CA 92313. You may also reach me via phone at (909) 954-5177. If you prefer to meet with the City of Grand Terrace in person, please contact me and I will arrange a meeting.

Project Title: Barton Road Dutch Bros Project

Project Location: The Project site is located at 22115 Barton Road in the City of Grand Terrace, San Bernardino County, California (See Attachment 1, Project Location Map). The project site is comprised of two parcels (Assessor Parcel Numbers (APNs) 1167-231-10 & -11), and a vacant lot located immediately to the south of these parcels that does not have an APN.

Project Description: The proposed project would include demolition of the existing auto repair shop building and construction of a 950-square foot Dutch Bros coffee shop with drive-through and walk-up service (see Attachment 2, Preliminary Site Plan). The project would also include approximately 14,692 square feet of ornamental landscaping, 18,052 square feet of parking and drive aisles, 2,765 square feet of walkways, and an approximately 7,000-square foot pocket park in the southwest portion of the park that would be available for public use. The proposed pocket park would include grass, small ornamental trees, a covered shade structure, benches, and an artistic sculpture. The proposed drive-through portion of the project would include a double drive-through lane with approximately 620 linear feet of stacking to accommodate 29 vehicles and an exit/bypass lane. The proposed parking area would include a total of 9 parking stalls, one of which would be Americans with Disabilities Act (ADA) accessible. Vehicular access to the proposed parking area would be provided via a 26-foot wide driveway in the northwestern portion of the site, which would provide for both ingress and egress. The project would also provide an entrance to the double drive-through lane via a new 22-foot wide driveway in the southwestern portion of the site at the terminus of the Michigan Street cul-de-sac. Finally, the project would provide a 17-foot wide exit-only driveway in the southern portion of the parking area just north of the drive-through entrance. Vehicles exiting the drive-through lane would be directed to exit via the driveway in the northwestern portion of the site, while vehicles in the parking area would be directed to exit via both driveways. Dutch Bros Coffee is proposing to operate the coffee shop 24 hours a day, if the market warrants. The project would generate three (3) to four (4) full-time employees and twenty-five (25) to thirty (30) part-time employees.

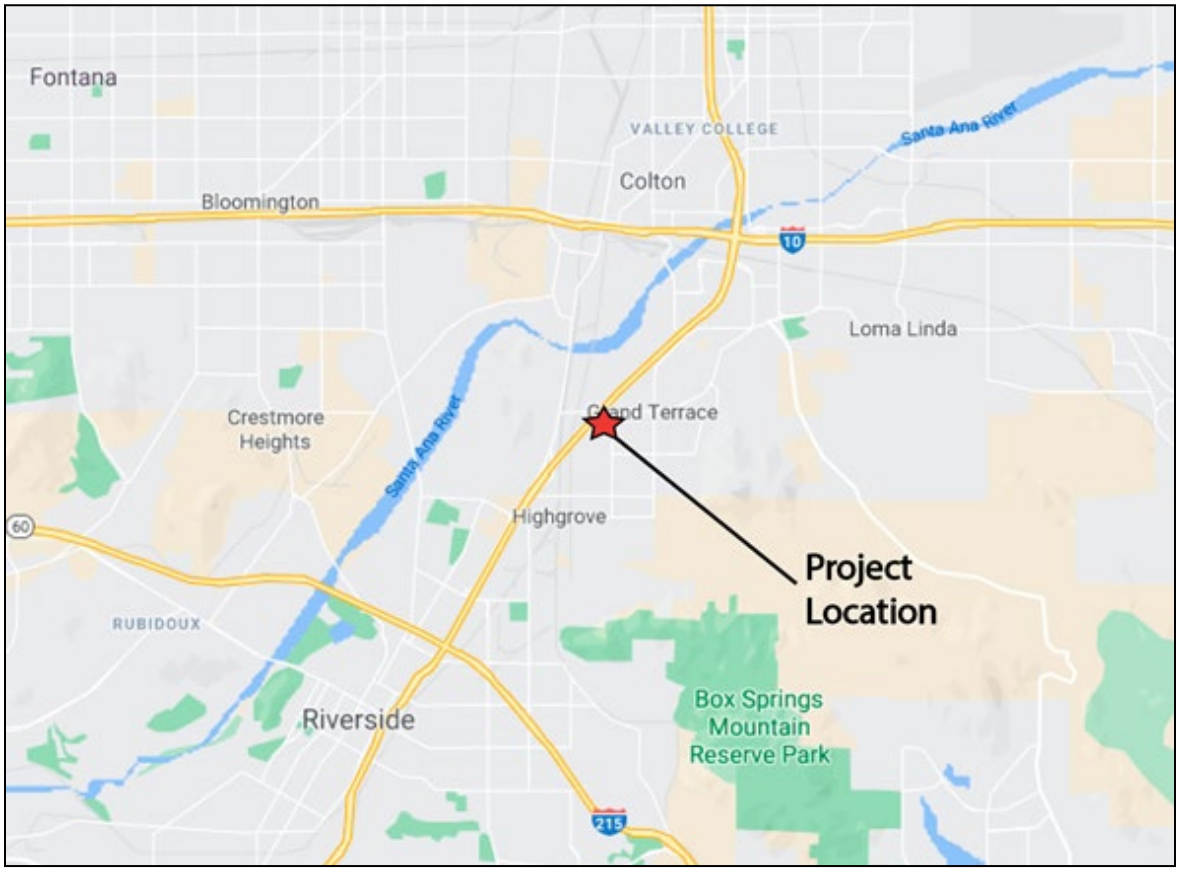
Again, please contact me within thirty days (30) days should you wish to initiate consultation pursuant to Government Code § 21083.3.1(d).

Sincerely,

Scott Hutter
Planning and Development
Services Director

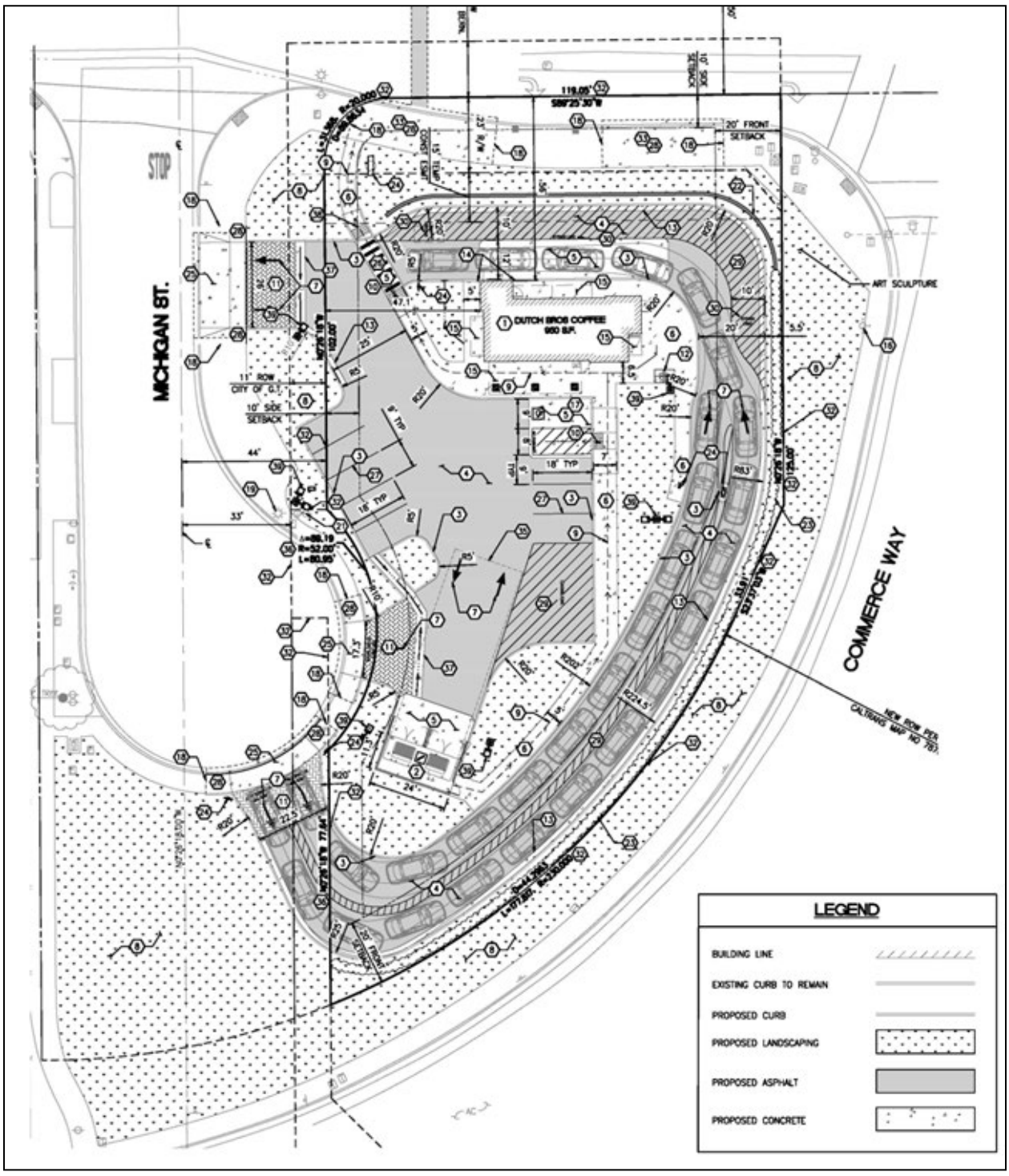
Enclosures

Attachment 1: Project Location Map





Attachment 2: Preliminary Site Plan



October 15, 2024

Jeff Grubbe, Chairperson
Agua Caliente Band of Cahuilla Indians
5401 Dinah Shor Drive
Palm Springs, CA 92264

Re: Consultation on Proposed Barton Road Dutch Bros Project Located in Grand Terrace, CA Pursuant to Public Resources Code §21080.3.1(d)

Dear Mr. Grubbe:

This letter is to notify you of Conditional Use Permit (CUP 24-02), Site and Architectural Review (SA 24-03), and Environmental (E 24-01) filed by Dutch Bros Coffee, LLC (applicant), represented by Mr. John Caglia, to construct and operate a drive-through coffee shop on a 1.0-acre site at 22115 Barton Road in the City of Grand Terrace, California. The property is zoned Barton Road Specific Plan – General Commercial (Planning Area 1) and is designated as General Commercial in the City's General Plan Use Element. Please refer to the Project Description below for a detailed description of the entitlement applications.

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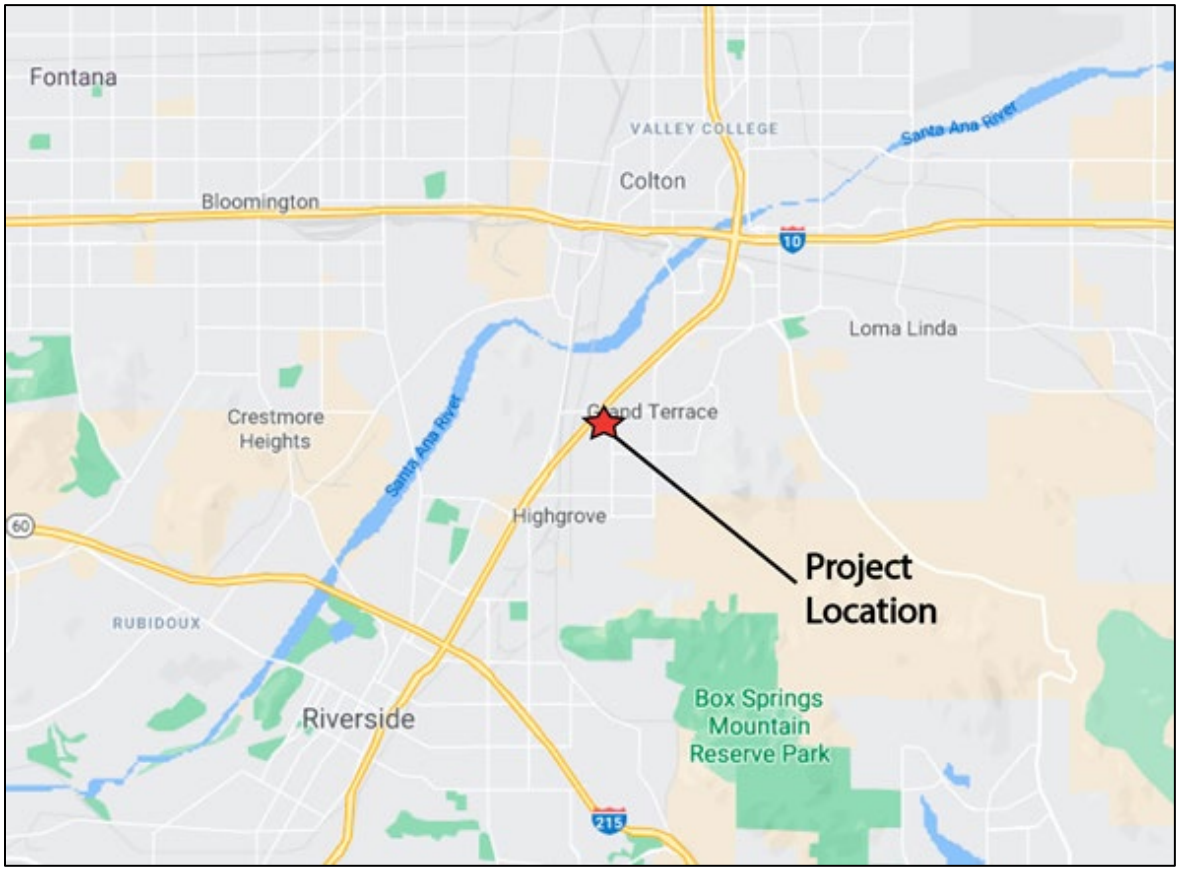
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Sincerely,

Scott Hutter
Planning and Development
Services Director

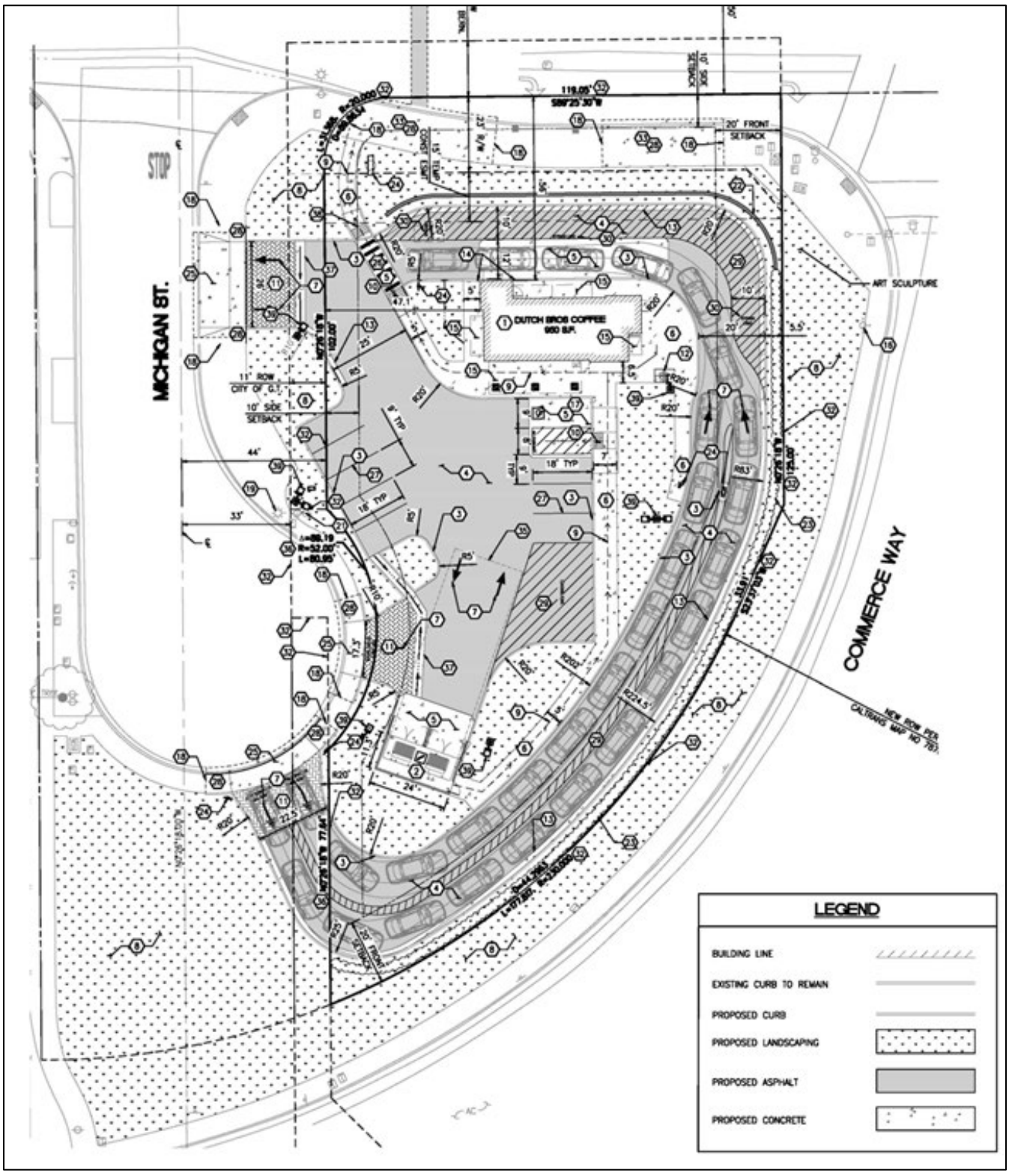
Enclosures

Attachment 1: Project Location Map





Attachment 2: Preliminary Site Plan



October 15, 2024

Joseph Hamilton, Chairman
Ramona Band of Cahuilla Indians
P.O. Box 391670
Anza, CA 92539

Re: Consultation on Proposed Barton Road Dutch Bros Project Located in Grand Terrace, CA Pursuant to Public Resources Code §21080.3.1(d)

Dear Mr. Hamilton:

This letter is to notify you of Conditional Use Permit (CUP 24-02), Site and Architectural Review (SA 24-03), and Environmental (E 24-01) filed by Dutch Bros Coffee, LLC (applicant), represented by Mr. John Caglia, to construct and operate a drive-through coffee shop on a 1.0-acre site at 22115 Barton Road in the City of Grand Terrace, California. The property is zoned Barton Road Specific Plan – General Commercial (Planning Area 1) and is designated as General Commercial in the City's General Plan Use Element. Please refer to the Project Description below for a detailed description of the entitlement applications.

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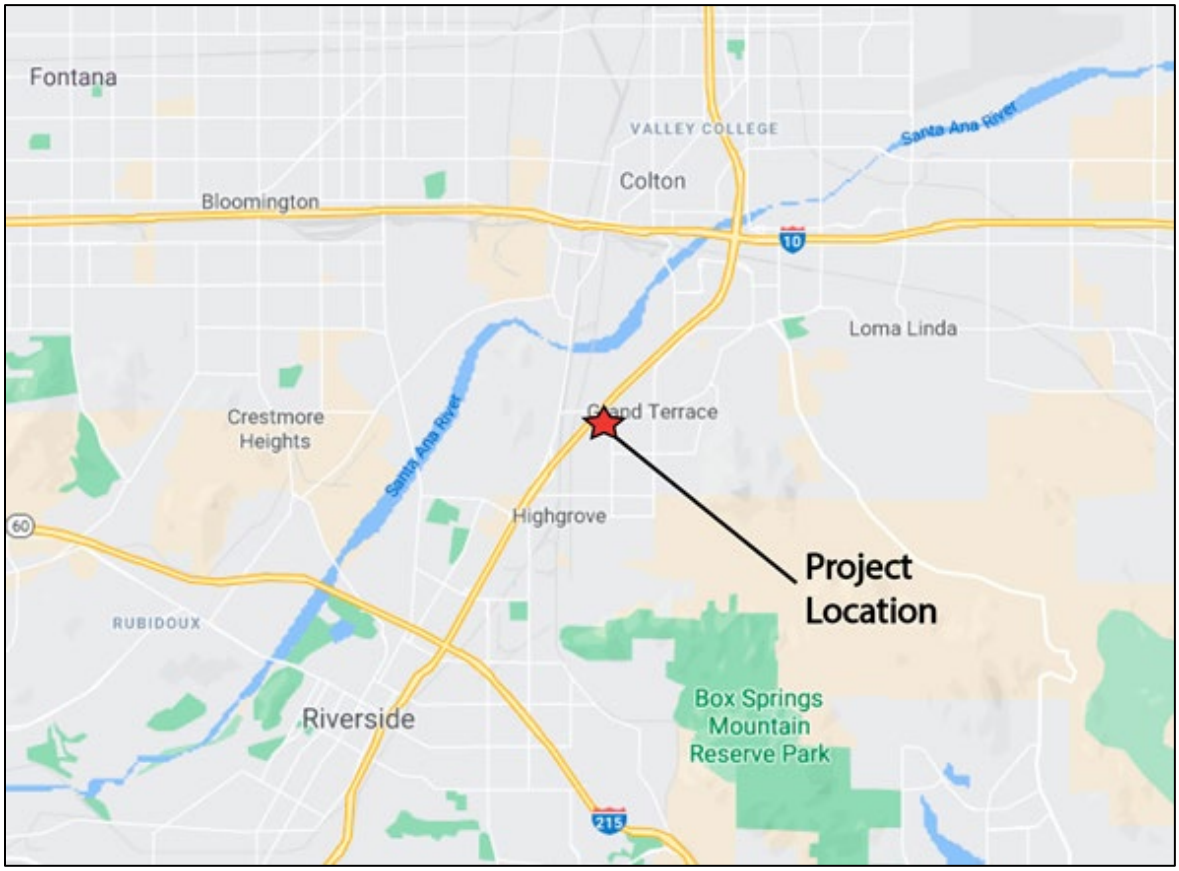
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Sincerely,

Scott Hutter
Planning and Development
Services Director

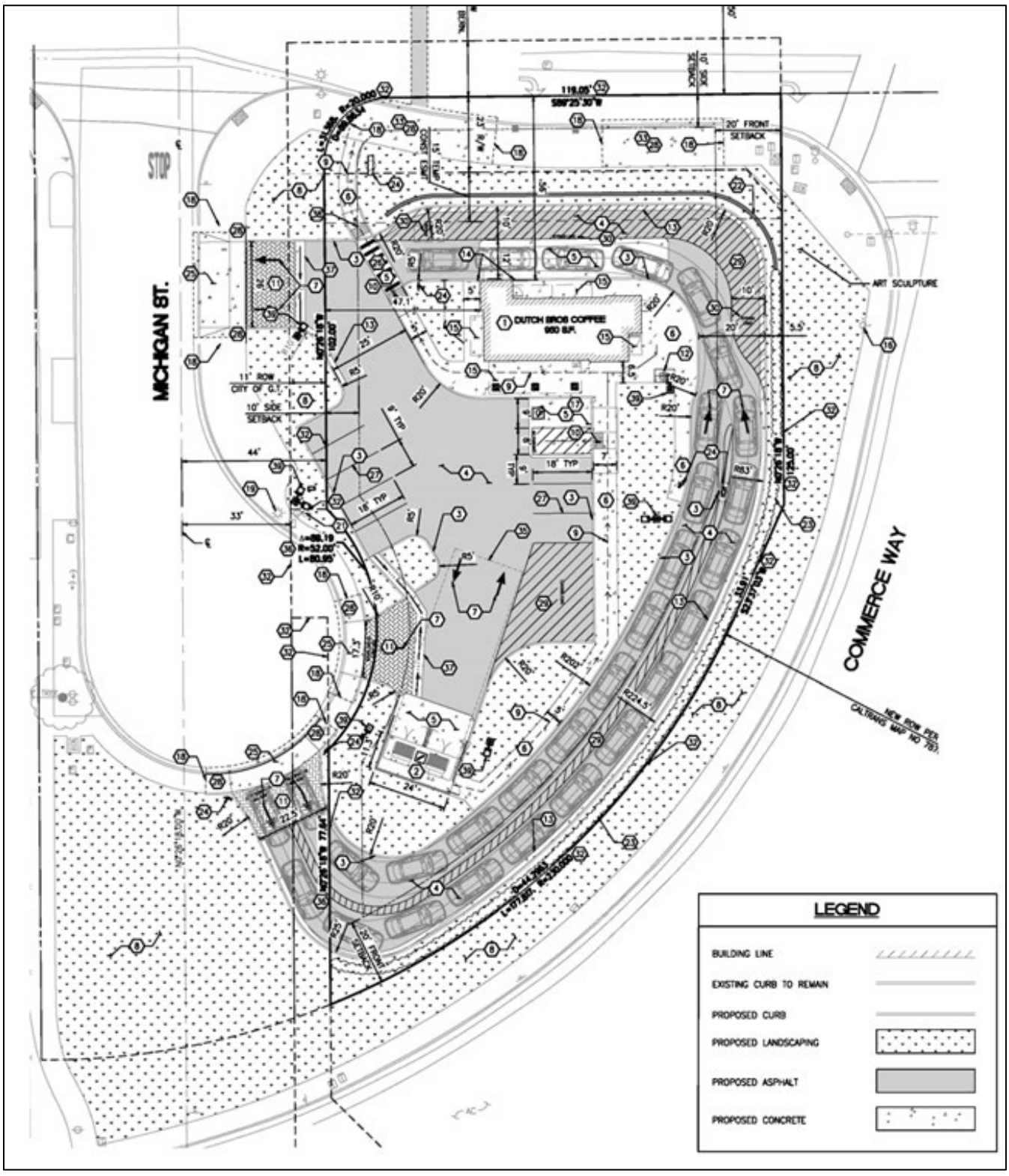
Enclosures

Attachment 1: Project Location Map





Attachment 2: Preliminary Site Plan



October 15, 2024

Joseph Ontiveros, Cultural Resource Department
Soboba Band of Luiseno Indians
P.O. Box 487
San Jacinto, CA 92581

Re: Consultation on Proposed Barton Road Dutch Bros Project Located in Grand Terrace, CA Pursuant to Public Resources Code §21080.3.1(d)

Dear Mr. Ontiveros:

This letter is to notify you of Conditional Use Permit (CUP 24-02), Site and Architectural Review (SA 24-03), and Environmental (E 24-01) filed by Dutch Bros Coffee, LLC (applicant), represented by Mr. John Caglia, to construct and operate a drive-through coffee shop on a 1.0-acre site at 22115 Barton Road in the City of Grand Terrace, California. The property is zoned Barton Road Specific Plan – General Commercial (Planning Area 1) and is designated as General Commercial in the City's General Plan Use Element. Please refer to the Project Description below for a detailed description of the entitlement applications.

The project site is located in an area of the City of Grand Terrace that is generally characterized by commercial uses, residential uses, public/institutional uses, roadway features, and some undeveloped land that is planned for development. The approximately 1.0-acre site is developed with an approximately 1,500-square foot former auto repair shop/fueling station, approximately 15,815 square feet of associated asphalt parking, and approximately 26,575 square feet of vacant land comprised of ruderal vegetation maintained pursuant to the City's Fire Code. There are no trees or rock outcroppings located on the project site and no vegetation that could be used as habitat for wildlife. The project site is located immediately east of the Barton Road entrance to I-215.

Pursuant to Public Resources Code §21080.3.1(d) if you wish to initiate consultation on this proposed project, please send a consultation request within thirty (30) days of receiving this notification to me via e-mail at shutter@grandterrace-ca.gov or by U.S. Postal Service (USPS) to the attention of Scott Hutter, Planning and Development Services Director, City of Grand Terrace (Lead Agency) Planning Division, 22795 Barton Rd., Grand Terrace, CA 92313. You may also reach me via phone at (909) 954-5177. If you prefer to meet with the City of Grand Terrace in person, please contact me and I will arrange a meeting.

Project Title: Barton Road Dutch Bros Project

Project Location: The Project site is located at 22115 Barton Road in the City of Grand Terrace, San Bernardino County, California (See Attachment 1, Project Location Map). The project site is comprised of two parcels (Assessor Parcel Numbers (APNs) 1167-231-10 & -11), and a vacant lot located immediately to the south of these parcels that does not have an APN.

Project Description: The proposed project would include demolition of the existing auto repair shop building and construction of a 950-square foot Dutch Bros coffee shop with drive-through and walk-up service (see Attachment 2, Preliminary Site Plan). The project would also include approximately 14,692 square feet of ornamental landscaping, 18,052 square feet of parking and drive aisles, 2,765 square feet of walkways, and an approximately 7,000-square foot pocket park in the southwest portion of the park that would be available for public use. The proposed pocket park would include grass, small ornamental trees, a covered shade structure, benches, and an artistic sculpture. The proposed drive-through portion of the project would include a double drive-through lane with approximately 620 linear feet of stacking to accommodate 29 vehicles and an exit/bypass lane. The proposed parking area would include a total of 9 parking stalls, one of which would be Americans with Disabilities Act (ADA) accessible. Vehicular access to the proposed parking area would be provided via a 26-foot wide driveway in the northwestern portion of the site, which would provide for both ingress and egress. The project would also provide an entrance to the double drive-through lane via a new 22-foot wide driveway in the southwestern portion of the site at the terminus of the Michigan Street cul-de-sac. Finally, the project would provide a 17-foot wide exit-only driveway in the southern portion of the parking area just north of the drive-through entrance. Vehicles exiting the drive-through lane would be directed to exit via the driveway in the northwestern portion of the site, while vehicles in the parking area would be directed to exit via both driveways. Dutch Bros Coffee is proposing to operate the coffee shop 24 hours a day, if the market warrants. The project would generate three (3) to four (4) full-time employees and twenty-five (25) to thirty (30) part-time employees.

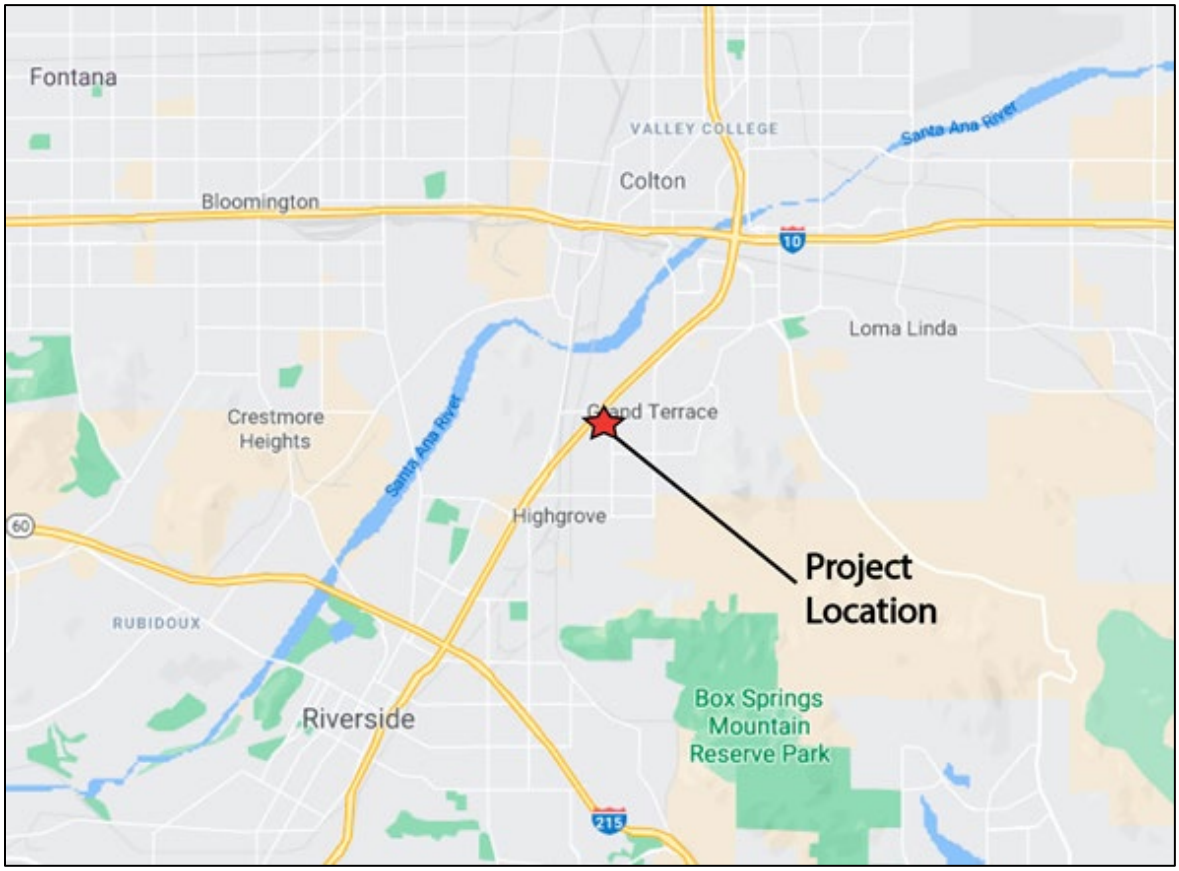
Again, please contact me within thirty days (30) days should you wish to initiate consultation pursuant to Government Code § 21083.3.1(d).

Sincerely,

Scott Hutter
Planning and Development
Services Director

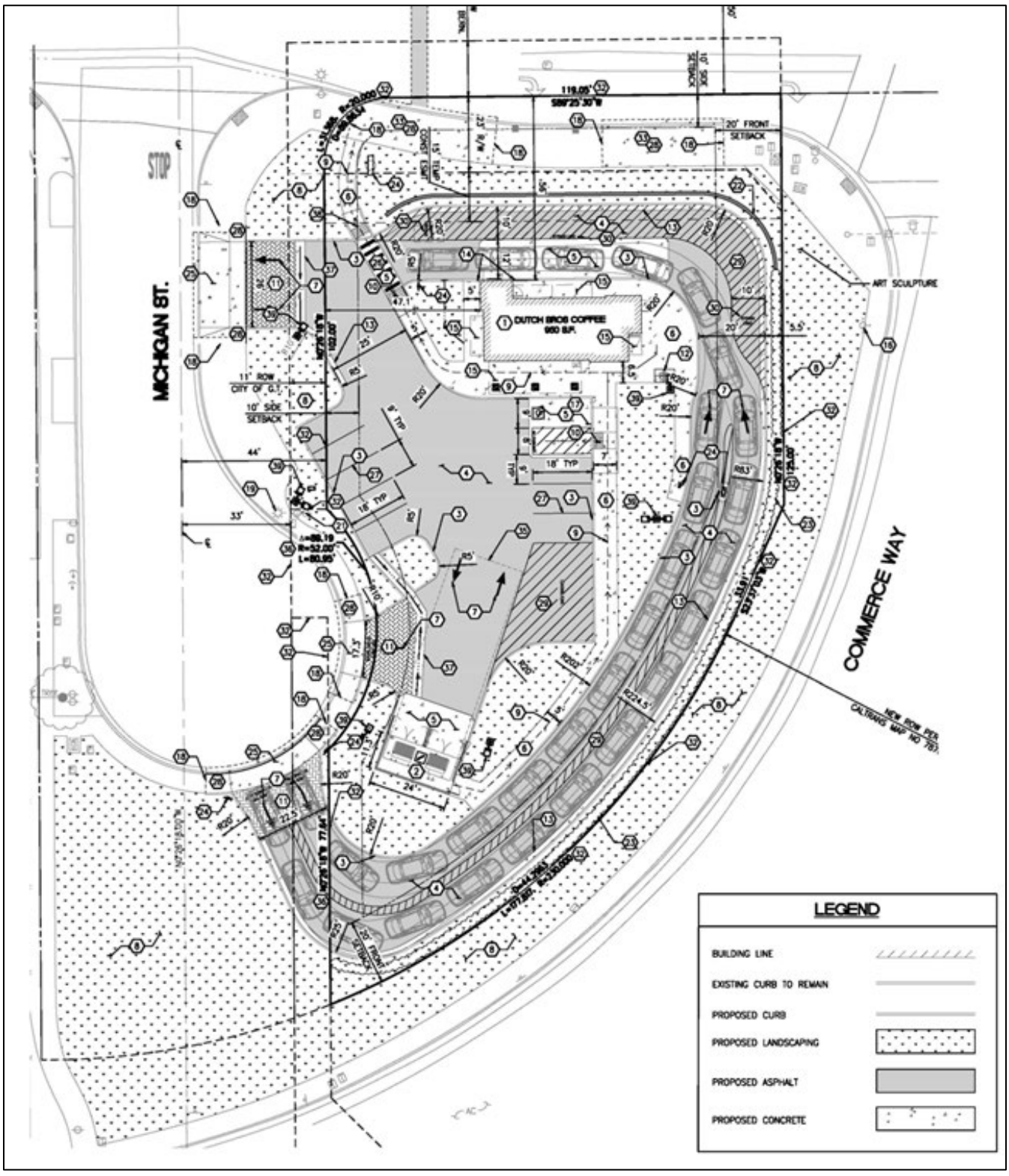
Enclosures

Attachment 1: Project Location Map





Attachment 2: Preliminary Site Plan



October 15, 2024

Lee Clauss, Director-CRM Department
San Manuel Band of Mission Indians
26569 Community Center Drive
Highland, CA 92346

Re: Consultation on Proposed Barton Road Dutch Bros Project Located in Grand Terrace, CA Pursuant to Public Resources Code §21080.3.1(d)

Dear Mr. Clauss:

This letter is to notify you of Conditional Use Permit (CUP 24-02), Site and Architectural Review (SA 24-03), and Environmental (E 24-01) filed by Dutch Bros Coffee, LLC (applicant), represented by Mr. John Caglia, to construct and operate a drive-through coffee shop on a 1.0-acre site at 22115 Barton Road in the City of Grand Terrace, California. The property is zoned Barton Road Specific Plan – General Commercial (Planning Area 1) and is designated as General Commercial in the City's General Plan Use Element. Please refer to the Project Description below for a detailed description of the entitlement applications.

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Pursuant to Public Resources Code §21080.3.1(d) if you wish to initiate consultation on this proposed project, please send a consultation request within thirty (30) days of receiving this notification to me via e-mail at shutter@grandterrace-ca.gov or by U.S. Postal Service (USPS) to the attention of Scott Hutter, Planning and Development Services Director, City of Grand Terrace (Lead Agency) Planning Division, 22795 Barton Rd., Grand Terrace, CA 92313. You may also reach me via phone at (909) 954-5177. If you prefer to meet with the City of Grand Terrace in person, please contact me and I will arrange a meeting.

Project Title: Barton Road Dutch Bros Project

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Project Description: The proposed project would include demolition of the existing auto repair shop building and construction of a 950-square foot Dutch Bros coffee shop with drive-through and walk-up service (see Attachment 2, Preliminary Site Plan). The project would also include approximately 14,692 square feet of ornamental landscaping, 18,052 square feet of parking and drive aisles, 2,765 square feet of walkways, and an approximately 7,000-square foot pocket park in the southwest portion of the park that would be available for public use. The proposed pocket park would include grass, small ornamental trees, a covered shade structure, benches, and an artistic sculpture. The proposed drive-through portion of the project would include a double drive-through lane with approximately 620 linear feet of stacking to accommodate 29 vehicles and an exit/bypass lane. The proposed parking area would include a total of 9 parking stalls, one of which would be Americans with Disabilities Act (ADA) accessible. Vehicular access to the proposed parking area would be provided via a 26-foot wide driveway in the northwestern portion of the site, which would provide for both ingress and egress. The project would also provide an entrance to the double drive-through lane via a new 22-foot wide driveway in the southwestern portion of the site at the terminus of the Michigan Street cul-de-sac. Finally, the project would provide a 17-foot wide exit-only driveway in the southern portion of the parking area just north of the drive-through entrance. Vehicles exiting the drive-through lane would be directed to exit via the driveway in the northwestern portion of the site, while vehicles in the parking area would be directed to exit via both driveways. Dutch Bros Coffee is proposing to operate the coffee shop 24 hours a day, if the market warrants. The project would generate three (3) to four (4) full-time employees and twenty-five (25) to thirty (30) part-time employees.

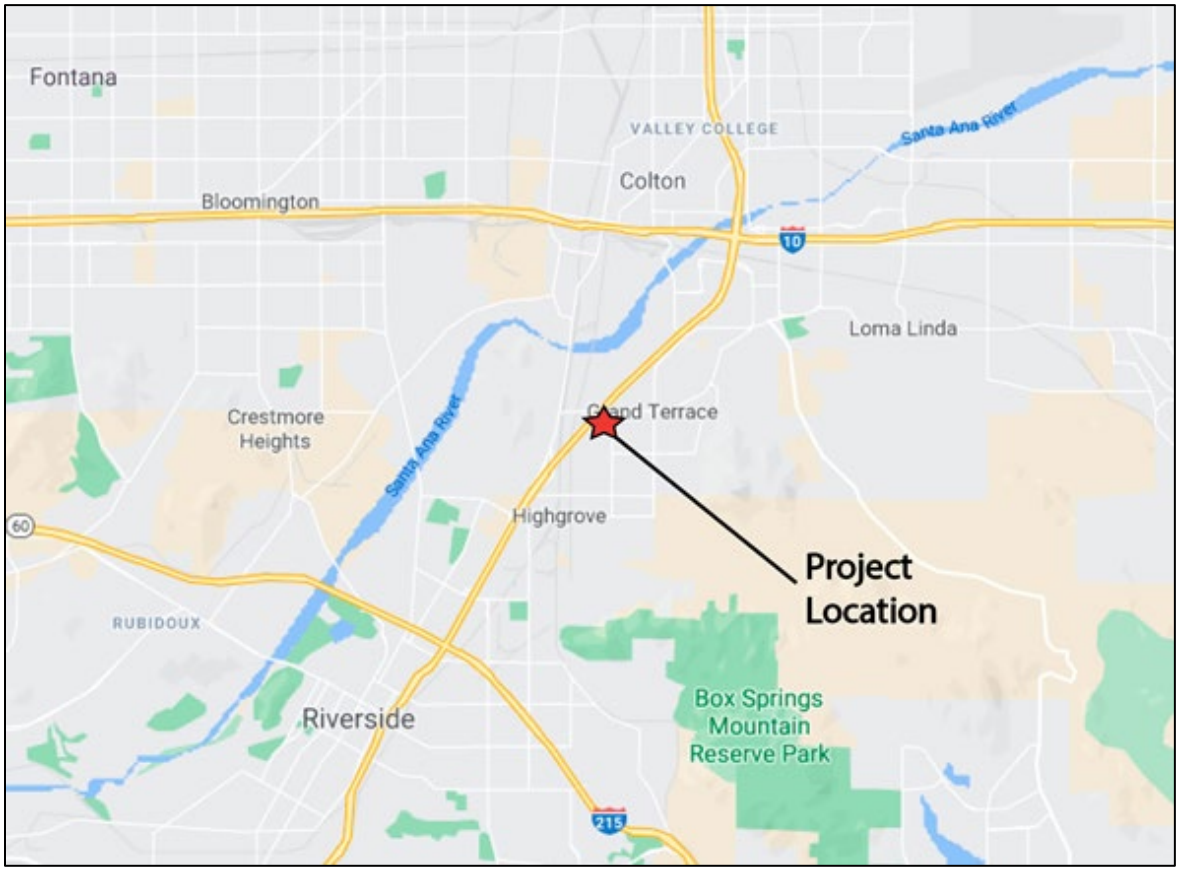
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Scott Hutter
Planning and Development
Services Director

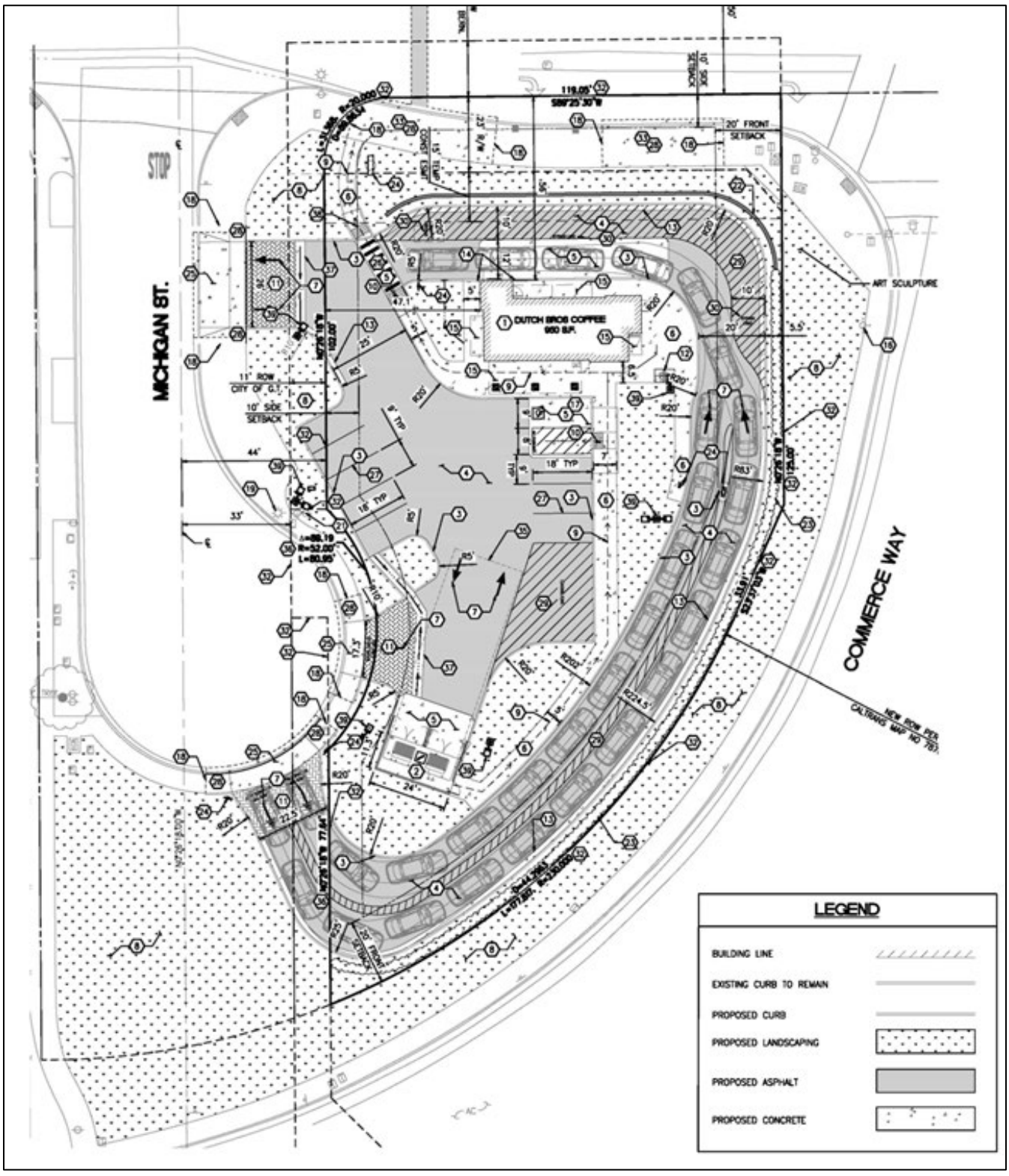
Enclosures

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Attachment 2: Preliminary Site Plan



October 15, 2024

Raymond Huaute, Cultural Resource Specialist
Morongo Band of Mission Indians
12700 Pumarra Road
Banning, CA 92220

Re: Consultation on Proposed Barton Road Dutch Bros Project Located in Grand Terrace, CA Pursuant to Public Resources Code §21080.3.1(d)

Dear Mr. Huaute:

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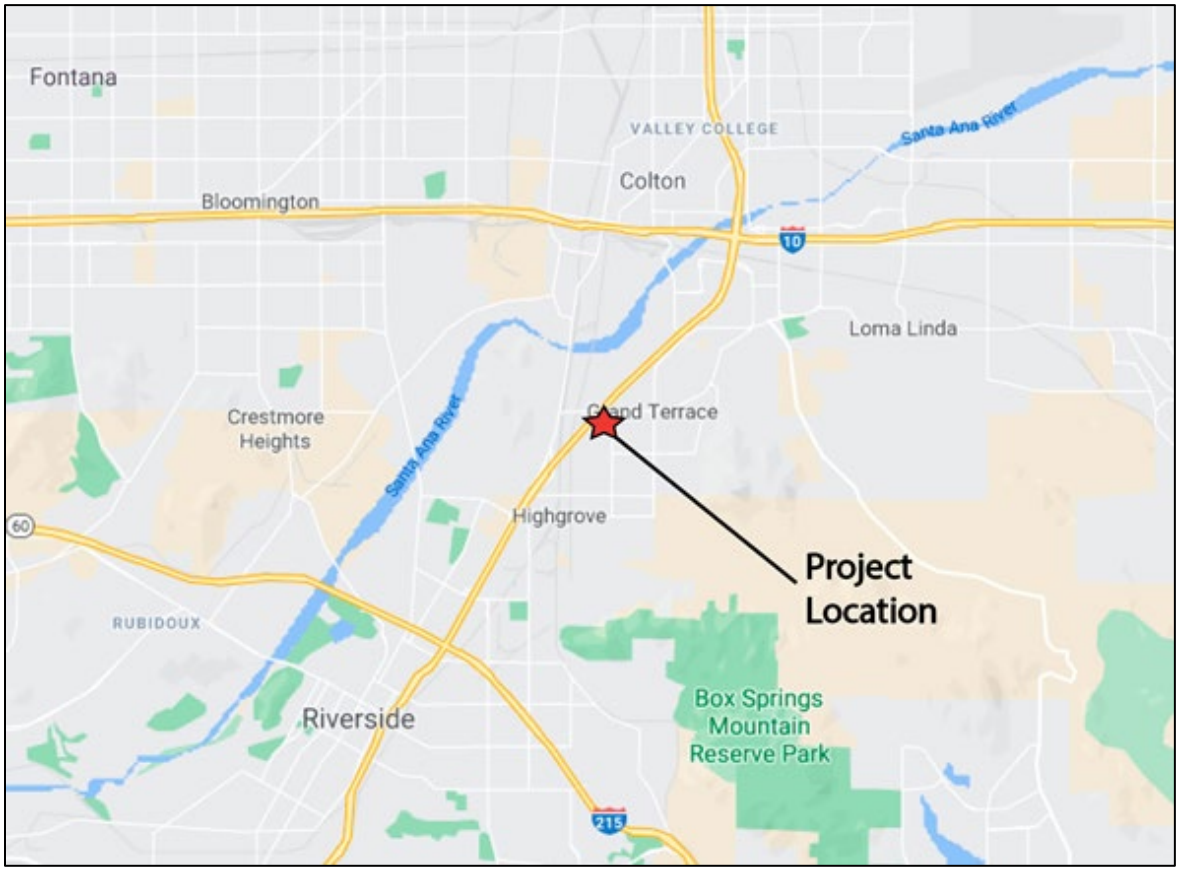
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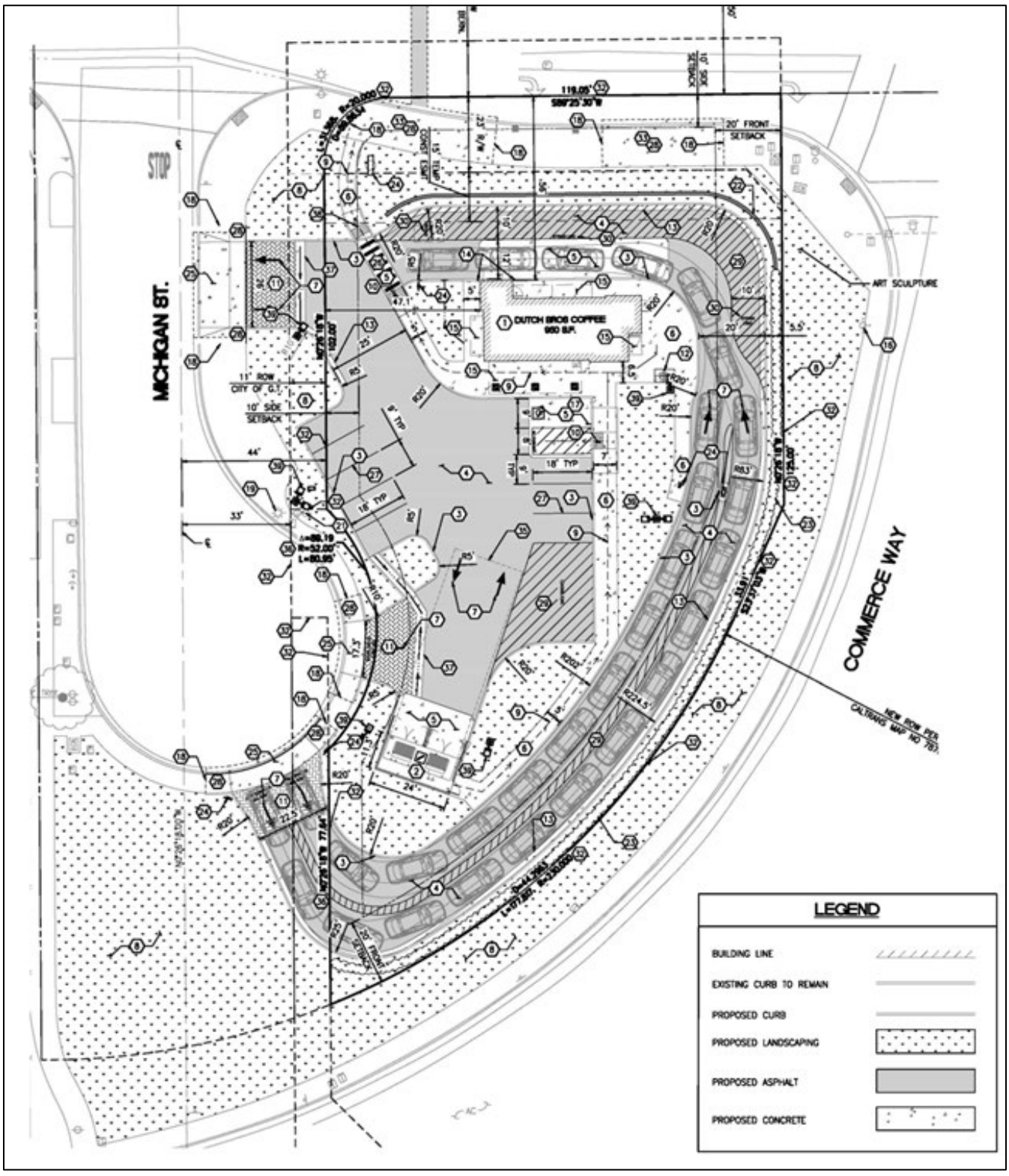
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October 15, 2024

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12700 Pumarra Road
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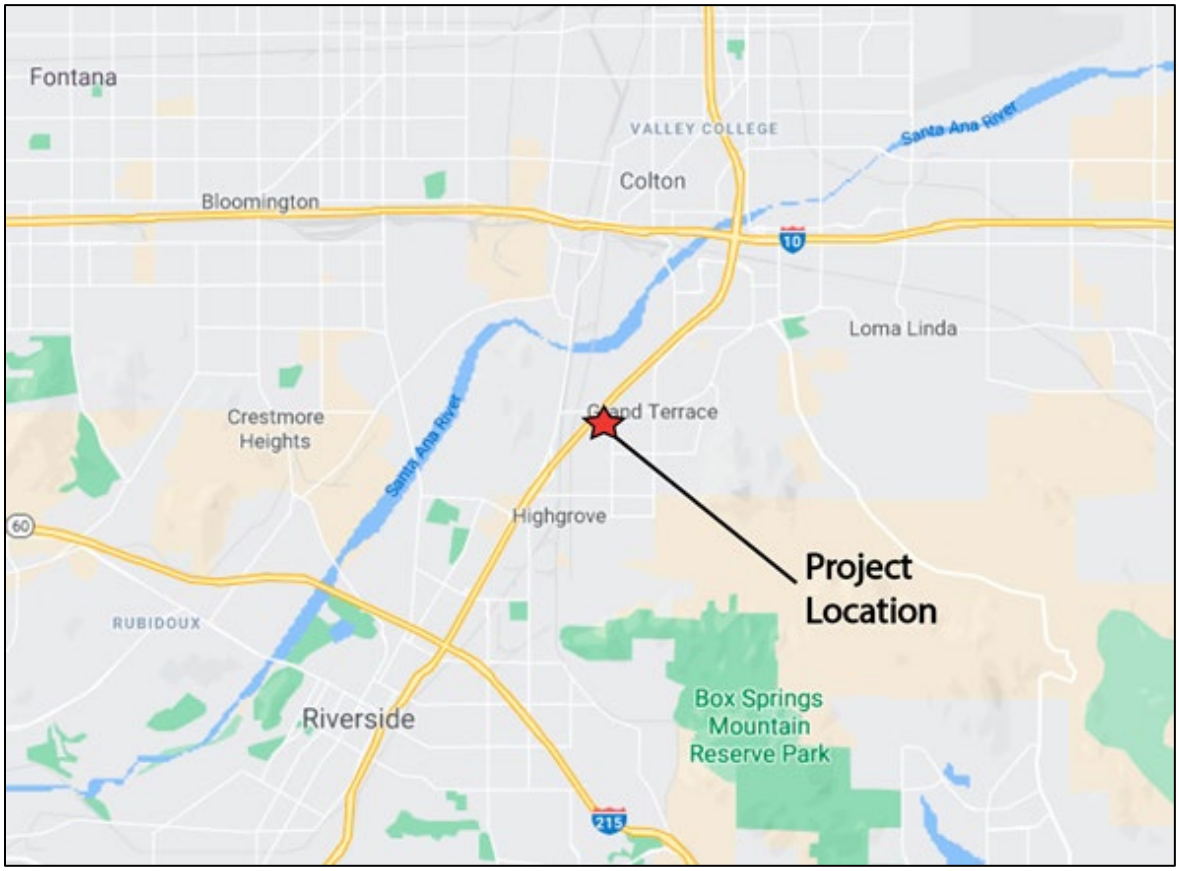
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