APPENDIX A

CALEEMOD OUTPUT DATA

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Cypress 5665 Plaza Drive - Existing Uses Custom Report

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1.1. Basic Project Information

Data Field	Value
Project Name	Cypress 5665 Plaza Drive - Existing Uses
Operational Year	2023
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	6.20
Location	Plaza Dr, Cypress, CA 90630, USA
County	Orange
City	Cypress
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5874
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	37.7	1000sqft	8.53	37,657	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.59	1.29	12.9	0.03	0.04	2.20	2.24	0.04	0.56	0.59	31.7	3,892	3,923	3.42	0.14	4,063
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.31	1.36	10.6	0.03	0.04	2.20	2.23	0.03	0.56	0.59	31.7	3,787	3,818	3.43	0.15	3,948
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.48	1.38	11.9	0.03	0.04	2.19	2.23	0.04	0.56	0.59	31.7	3,818	3,849	3.43	0.15	3,984
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.45	0.25	2.18	< 0.005	0.01	0.40	0.41	0.01	0.10	0.11	5.25	632	637	0.57	0.02	660

2.5. Operations Emissions by Sector, Unmitigated

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

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

Mobile	1.41	1.02	11.0	0.02	0.02	2.20	2.22	0.02	0.56	0.57	—	2,535	2,535	0.13	0.10	2,580
Area	1.17	0.01	1.64	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.73	6.73	< 0.005	< 0.005	6.76
Energy	0.01	0.26	0.22	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,284	1,284	0.09	0.01	1,289
Water	—	—	—	—	—	—	—	—	—	—	12.8	66.4	79.2	1.32	0.03	122
Waste	—	—	—	—	—	—	—	—	—	—	18.9	0.00	18.9	1.89	0.00	66.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09
Total	2.59	1.29	12.9	0.03	0.04	2.20	2.24	0.04	0.56	0.59	31.7	3,892	3,923	3.42	0.14	4,063
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.39	1.11	10.4	0.02	0.02	2.20	2.22	0.02	0.56	0.57	—	2,436	2,436	0.14	0.11	2,472
Area	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.26	0.22	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,284	1,284	0.09	0.01	1,289
Water	—	—	—	—	—	—	—	—	—	—	12.8	66.4	79.2	1.32	0.03	122
Waste	—	—	—	—	—	—	—	—	—	—	18.9	0.00	18.9	1.89	0.00	66.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09
Total	2.31	1.36	10.6	0.03	0.04	2.20	2.23	0.03	0.56	0.59	31.7	3,787	3,818	3.43	0.15	3,948
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.38	1.12	10.6	0.02	0.02	2.19	2.21	0.02	0.56	0.57	—	2,463	2,463	0.14	0.11	2,503
Area	1.09	0.01	1.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.61	4.61	< 0.005	< 0.005	4.63
Energy	0.01	0.26	0.22	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,284	1,284	0.09	0.01	1,289
Water	—	—	—	—	—	—	—	—	—	—	12.8	66.4	79.2	1.32	0.03	122
Waste	—	—	—	—	—	—	—	—	—	—	18.9	0.00	18.9	1.89	0.00	66.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09
Total	2.48	1.38	11.9	0.03	0.04	2.19	2.23	0.04	0.56	0.59	31.7	3,818	3,849	3.43	0.15	3,984
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.25	0.20	1.93	< 0.005	< 0.005	0.40	0.40	< 0.005	0.10	0.10	—	408	408	0.02	0.02	414
Area	0.20	< 0.005	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.76	0.76	< 0.005	< 0.005	0.77

Energy	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	213	213	0.01	< 0.005	213
Water	—	—	—	—	—	—	—	—	—	—	2.12	11.0	13.1	0.22	0.01	20.1
Waste	—	—	—	—	—	—	—	—	—	—	3.12	0.00	3.12	0.31	0.00	10.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02
Total	0.45	0.25	2.18	< 0.005	0.01	0.40	0.41	0.01	0.10	0.11	5.25	632	637	0.57	0.02	660

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	1.41	1.02	11.0	0.02	0.02	2.20	2.22	0.02	0.56	0.57	—	2,535	2,535	0.13	0.10	2,580
Total	1.41	1.02	11.0	0.02	0.02	2.20	2.22	0.02	0.56	0.57	—	2,535	2,535	0.13	0.10	2,580
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	1.39	1.11	10.4	0.02	0.02	2.20	2.22	0.02	0.56	0.57	—	2,436	2,436	0.14	0.11	2,472
Total	1.39	1.11	10.4	0.02	0.02	2.20	2.22	0.02	0.56	0.57	—	2,436	2,436	0.14	0.11	2,472
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.25	0.20	1.93	< 0.005	< 0.005	0.40	0.40	< 0.005	0.10	0.10	—	408	408	0.02	0.02	414

Total	0.25	0.20	1.93	< 0.005	< 0.005	0.40	0.40	< 0.005	0.10	0.10	—	408	408	0.02	0.02	414

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	978	978	0.06	0.01	982
Total	—	—	—	—	—	—	—	—	—	—	—	978	978	0.06	0.01	982
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	978	978	0.06	0.01	982
Total	—	—	—	—	—	—	—	—	—	—	—	978	978	0.06	0.01	982
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	162	162	0.01	< 0.005	163
Total	—	—	—	—	—	—	—	—	—	—	—	162	162	0.01	< 0.005	163

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	0.26	0.22	< 0.005	0.02	—	0.02	0.02	—	0.02	—	306	306	0.03	< 0.005	307
Total	0.01	0.26	0.22	< 0.005	0.02	—	0.02	0.02	—	0.02	—	306	306	0.03	< 0.005	307
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	0.26	0.22	< 0.005	0.02	—	0.02	0.02	—	0.02	—	306	306	0.03	< 0.005	307
Total	0.01	0.26	0.22	< 0.005	0.02	—	0.02	0.02	—	0.02	—	306	306	0.03	< 0.005	307
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	50.6	50.6	< 0.005	< 0.005	50.8
Total	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	50.6	50.6	< 0.005	< 0.005	50.8

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscap Equipment	0.27	0.01	1.64	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.73	6.73	< 0.005	< 0.005	6.76
Total	1.17	0.01	1.64	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.73	6.73	< 0.005	< 0.005	6.76
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectu ral Coatings	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectu ral Coatings	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscap e Equipmen t	0.03	< 0.005	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.76	0.76	< 0.005	< 0.005	0.77
Total	0.20	< 0.005	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.76	0.76	< 0.005	< 0.005	0.77

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

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

General Office Building	—	—	—	—	—	—	—	—	—	—	12.8	66.4	79.2	1.32	0.03	122
Total	—	—	—	—	—	—	—	—	—	—	12.8	66.4	79.2	1.32	0.03	122
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	12.8	66.4	79.2	1.32	0.03	122
Total	—	—	—	—	—	—	—	—	—	—	12.8	66.4	79.2	1.32	0.03	122
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	2.12	11.0	13.1	0.22	0.01	20.1
Total	—	—	—	—	—	—	—	—	—	—	2.12	11.0	13.1	0.22	0.01	20.1

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	18.9	0.00	18.9	1.89	0.00	66.0
Total	—	—	—	—	—	—	—	—	—	—	18.9	0.00	18.9	1.89	0.00	66.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	18.9	0.00	18.9	1.89	0.00	66.0
Total	—	—	—	—	—	—	—	—	—	—	18.9	0.00	18.9	1.89	0.00	66.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	3.12	0.00	3.12	0.31	0.00	10.9
Total	—	—	—	—	—	—	—	—	—	—	3.12	0.00	3.12	0.31	0.00	10.9

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	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

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Office Building	408	408	408	148,856	3,108	3,108	3,108	1,134,312

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	56,486	18,829	—

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Office Building	671,059	532	0.0330	0.0040	954,472

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	6,692,920	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	35.0	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

8. User Changes to Default Data

Screen	Justification
Land Use	8.53 acre project site with an existing 150,626 sf office building, however only 25% is currently occupied, which is about 37,657 sf
Operations: Vehicle Data	Based trip generation for the existing uses, which assumes 408 ADT

Cypress 5665 Plaza Drive - Heavy Heavy Duty Trucks Custom Report

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5.18.2.1. Unmitigated

5.18.2.2. Mitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Cypress 5665 Plaza Drive - Vehicles and Light Duty Trucks
Construction Start Date	4/1/2024
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	6.20
Location	5665 Plaza Dr, Cypress, CA 90630, USA
County	Orange
City	Cypress
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5874
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

1.2. Land Use Types

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

Unrefrigerated Warehouse-No Rail	101	1000sqft	6.53	100,864	0.00	—	—	—
Refrigerated Warehouse-No Rail	90.5	1000sqft	0.00	90,530	0.00	0.00	—	—
Parking Lot	222	Space	2.00	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-5	Design Water-Efficient Landscapes

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.14	39.9	29.4	0.05	1.12	7.89	9.01	1.02	3.99	5.01	—	5,678	5,678	0.31	0.36	5,798
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	25.2	21.5	20.8	0.03	0.77	1.53	2.30	0.71	0.37	1.08	—	4,792	4,792	0.18	0.21	4,858
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.58	12.9	10.9	0.02	0.41	1.30	1.71	0.38	0.38	0.76	—	2,601	2,601	0.11	0.12	2,643
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.65	2.36	1.98	< 0.005	0.08	0.24	0.31	0.07	0.07	0.14	—	431	431	0.02	0.02	438

2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.14	39.9	29.4	0.05	1.12	7.89	9.01	1.02	3.99	5.01	—	5,678	5,678	0.31	0.36	5,798
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	25.0	21.5	20.8	0.03	0.77	1.53	2.30	0.71	0.37	1.08	—	4,792	4,792	0.18	0.21	4,858
2025	25.2	21.4	20.5	0.03	0.76	1.53	2.29	0.71	0.37	1.08	—	4,750	4,750	0.18	0.21	4,816
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.90	12.9	10.9	0.02	0.41	1.30	1.71	0.38	0.38	0.76	—	2,601	2,601	0.11	0.12	2,643
2025	3.58	2.87	2.75	< 0.005	0.11	0.19	0.29	0.10	0.05	0.14	—	606	606	0.02	0.02	615
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.35	2.36	1.98	< 0.005	0.08	0.24	0.31	0.07	0.07	0.14	—	431	431	0.02	0.02	438
2025	0.65	0.52	0.50	< 0.005	0.02	0.03	0.05	0.02	0.01	0.03	—	100	100	< 0.005	< 0.005	102

2.3. Construction Emissions by Year, Mitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.14	39.9	29.4	0.05	1.12	7.89	9.01	1.02	3.99	5.01	—	5,678	5,678	0.31	0.36	5,798
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2024	25.0	21.5	20.8	0.03	0.77	1.53	2.30	0.71	0.37	1.08	—	4,792	4,792	0.18	0.21	4,858
2025	25.2	21.4	20.5	0.03	0.76	1.53	2.29	0.71	0.37	1.08	—	4,750	4,750	0.18	0.21	4,816
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.90	12.9	10.9	0.02	0.41	1.30	1.71	0.38	0.38	0.76	—	2,601	2,601	0.11	0.12	2,643
2025	3.58	2.87	2.75	< 0.005	0.11	0.19	0.29	0.10	0.05	0.14	—	606	606	0.02	0.02	615
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.35	2.36	1.98	< 0.005	0.08	0.24	0.31	0.07	0.07	0.14	—	431	431	0.02	0.02	438
2025	0.65	0.52	0.50	< 0.005	0.02	0.03	0.05	0.02	0.01	0.03	—	100	100	< 0.005	< 0.005	102

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.67	1.88	15.5	0.03	0.11	1.77	1.88	0.11	0.45	0.56	182	7,230	7,412	18.8	0.32	10,399
Mit.	6.67	1.88	15.5	0.03	0.11	1.77	1.88	0.11	0.45	0.56	182	7,230	7,412	18.8	0.32	10,399
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.30	1.87	6.70	0.03	0.10	1.77	1.87	0.10	0.45	0.55	182	7,121	7,303	18.8	0.33	10,283
Mit.	5.30	1.87	6.70	0.03	0.10	1.77	1.87	0.10	0.45	0.55	182	7,121	7,303	18.8	0.33	10,283
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	6.23	1.92	12.6	0.03	0.11	1.76	1.87	0.10	0.45	0.55	182	7,165	7,346	18.8	0.33	10,330
Mit.	6.23	1.92	12.6	0.03	0.11	1.76	1.87	0.10	0.45	0.55	182	7,165	7,346	18.8	0.33	10,330
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.14	0.35	2.29	< 0.005	0.02	0.32	0.34	0.02	0.08	0.10	30.1	1,186	1,216	3.11	0.05	1,710
Mit.	1.14	0.35	2.29	< 0.005	0.02	0.32	0.34	0.02	0.08	0.10	30.1	1,186	1,216	3.11	0.05	1,710
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.65	0.68	6.24	0.02	0.01	1.77	1.78	0.01	0.45	0.46	—	2,056	2,056	0.06	0.09	2,091
Area	5.96	0.07	8.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.2	34.2	< 0.005	< 0.005	34.4
Energy	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	4,701	4,701	0.33	0.03	4,717
Water	—	—	—	—	—	—	—	—	—	—	84.8	439	524	8.72	0.21	805
Waste	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	6.67	1.88	15.5	0.03	0.11	1.77	1.88	0.11	0.45	0.56	182	7,230	7,412	18.8	0.32	10,399
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.64	0.73	5.75	0.02	0.01	1.77	1.78	0.01	0.45	0.46	—	1,981	1,981	0.06	0.09	2,010
Area	4.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	4,701	4,701	0.33	0.03	4,717

Water	—	—	—	—	—	—	—	—	—	—	84.8	439	524	8.72	0.21	805
Waste	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	5.30	1.87	6.70	0.03	0.10	1.77	1.87	0.10	0.45	0.55	182	7,121	7,303	18.8	0.33	10,283
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.64	0.74	5.91	0.02	0.01	1.76	1.77	0.01	0.45	0.46	—	2,001	2,001	0.06	0.09	2,033
Area	5.53	0.05	5.70	< 0.005	0.01	—	0.01	0.01	—	0.01	—	23.4	23.4	< 0.005	< 0.005	23.5
Energy	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	4,701	4,701	0.33	0.03	4,717
Water	—	—	—	—	—	—	—	—	—	—	84.8	439	524	8.72	0.21	805
Waste	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	6.23	1.92	12.6	0.03	0.11	1.76	1.87	0.10	0.45	0.55	182	7,165	7,346	18.8	0.33	10,330
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.12	0.14	1.08	< 0.005	< 0.005	0.32	0.32	< 0.005	0.08	0.08	—	331	331	0.01	0.01	337
Area	1.01	0.01	1.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	3.90
Energy	0.01	0.21	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	778	778	0.05	< 0.005	781
Water	—	—	—	—	—	—	—	—	—	—	14.0	72.7	86.7	1.44	0.03	133
Waste	—	—	—	—	—	—	—	—	—	—	16.1	0.00	16.1	1.60	0.00	56.2
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	399
Total	1.14	0.35	2.29	< 0.005	0.02	0.32	0.34	0.02	0.08	0.10	30.1	1,186	1,216	3.11	0.05	1,710

2.6. Operations Emissions by Sector, Mitigated

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

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

Mobile	0.65	0.68	6.24	0.02	0.01	1.77	1.78	0.01	0.45	0.46	—	2,056	2,056	0.06	0.09	2,091
Area	5.96	0.07	8.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.2	34.2	< 0.005	< 0.005	34.4
Energy	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	4,701	4,701	0.33	0.03	4,717
Water	—	—	—	—	—	—	—	—	—	—	84.8	439	524	8.72	0.21	805
Waste	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	6.67	1.88	15.5	0.03	0.11	1.77	1.88	0.11	0.45	0.56	182	7,230	7,412	18.8	0.32	10,399
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.64	0.73	5.75	0.02	0.01	1.77	1.78	0.01	0.45	0.46	—	1,981	1,981	0.06	0.09	2,010
Area	4.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	4,701	4,701	0.33	0.03	4,717
Water	—	—	—	—	—	—	—	—	—	—	84.8	439	524	8.72	0.21	805
Waste	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	5.30	1.87	6.70	0.03	0.10	1.77	1.87	0.10	0.45	0.55	182	7,121	7,303	18.8	0.33	10,283
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.64	0.74	5.91	0.02	0.01	1.76	1.77	0.01	0.45	0.46	—	2,001	2,001	0.06	0.09	2,033
Area	5.53	0.05	5.70	< 0.005	0.01	—	0.01	0.01	—	0.01	—	23.4	23.4	< 0.005	< 0.005	23.5
Energy	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	4,701	4,701	0.33	0.03	4,717
Water	—	—	—	—	—	—	—	—	—	—	84.8	439	524	8.72	0.21	805
Waste	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	6.23	1.92	12.6	0.03	0.11	1.76	1.87	0.10	0.45	0.55	182	7,165	7,346	18.8	0.33	10,330
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.12	0.14	1.08	< 0.005	< 0.005	0.32	0.32	< 0.005	0.08	0.08	—	331	331	0.01	0.01	337
Area	1.01	0.01	1.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	3.90

Energy	0.01	0.21	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	778	778	0.05	< 0.005	781
Water	—	—	—	—	—	—	—	—	—	—	14.0	72.7	86.7	1.44	0.03	133
Waste	—	—	—	—	—	—	—	—	—	—	16.1	0.00	16.1	1.60	0.00	56.2
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	399
Total	1.14	0.35	2.29	< 0.005	0.02	0.32	0.34	0.02	0.08	0.10	30.1	1,186	1,216	3.11	0.05	1,710

3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	24.9	18.2	0.03	0.79	—	0.79	0.71	—	0.71	—	3,425	3,425	0.14	0.03	3,437
Demolition	—	—	—	—	—	2.44	2.44	—	0.37	0.37	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	4.10	2.99	0.01	0.13	—	0.13	0.12	—	0.12	—	563	563	0.02	< 0.005	565
Demolition	—	—	—	—	—	0.40	0.40	—	0.06	0.06	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.75	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	93.2	93.2	< 0.005	< 0.005	93.5
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.90	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	203	203	< 0.005	0.01	206
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	2.54	1.11	0.01	0.03	0.52	0.55	0.03	0.15	0.17	—	2,049	2,049	0.16	0.33	2,155
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	32.2	32.2	< 0.005	< 0.005	32.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.44	0.18	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	337	337	0.03	0.05	354
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.34	5.34	< 0.005	< 0.005	5.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.08	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	55.8	55.8	< 0.005	0.01	58.6

3.2. Demolition (2024) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	24.9	18.2	0.03	0.79	—	0.79	0.71	—	0.71	—	3,425	3,425	0.14	0.03	3,437
Demolition	—	—	—	—	—	2.44	2.44	—	0.37	0.37	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	4.10	2.99	0.01	0.13	—	0.13	0.12	—	0.12	—	563	563	0.02	< 0.005	565
Demolition	—	—	—	—	—	0.40	0.40	—	0.06	0.06	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.75	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	93.2	93.2	< 0.005	< 0.005	93.5
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.90	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	203	203	< 0.005	0.01	206
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	2.54	1.11	0.01	0.03	0.52	0.55	0.03	0.15	0.17	—	2,049	2,049	0.16	0.33	2,155

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	32.2	32.2	< 0.005	< 0.005	32.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.44	0.18	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	337	337	0.03	0.05	354
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.34	5.34	< 0.005	< 0.005	5.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.08	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	55.8	55.8	< 0.005	0.01	58.6

3.3. Site Preparation (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	39.9	28.3	0.05	1.12	—	1.12	1.02	—	1.02	—	5,296	5,296	0.21	0.04	5,314
Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.03	1.09	0.78	< 0.005	0.03	—	0.03	0.03	—	0.03	—	145	145	0.01	< 0.005	146
Dust From Material Movement	—	—	—	—	—	0.21	0.21	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.20	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	24.1
Dust From Material Movement	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	1.05	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	237	237	< 0.005	0.01	241
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.27	6.27	< 0.005	< 0.005	6.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.04	1.04	< 0.005	< 0.005	1.05

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

3.4. Site Preparation (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	39.9	28.3	0.05	1.12	—	1.12	1.02	—	1.02	—	5,296	5,296	0.21	0.04	5,314
Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	1.09	0.78	< 0.005	0.03	—	0.03	0.03	—	0.03	—	145	145	0.01	< 0.005	146
Dust From Material Movement	—	—	—	—	—	0.21	0.21	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.20	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	24.1

Dust From Material Movement	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	1.05	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	237	237	< 0.005	0.01	241
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.27	6.27	< 0.005	< 0.005	6.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.04	1.04	< 0.005	< 0.005	1.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2024) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.73	23.2	17.8	0.03	0.75	—	0.75	0.69	—	0.69	—	2,958	2,958	0.12	0.02	2,969
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.27	0.97	< 0.005	0.04	—	0.04	0.04	—	0.04	—	162	162	0.01	< 0.005	163
Dust From Material Movement	—	—	—	—	—	0.15	0.15	—	0.07	0.07	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.23	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.8	26.8	< 0.005	< 0.005	26.9
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.90	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	203	203	< 0.005	0.01	206

Vendor	0.00	0.00	0.00	0.00	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	0.52	0.23	< 0.005	0.01	0.11	0.11	0.01	0.03	0.04	—	419	419	0.03	0.07	440
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.7	10.7	< 0.005	< 0.005	10.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.9	22.9	< 0.005	< 0.005	24.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.78	1.78	< 0.005	< 0.005	1.80
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.80	3.80	< 0.005	< 0.005	3.99

3.6. Grading (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.73	23.2	17.8	0.03	0.75	—	0.75	0.69	—	0.69	—	2,958	2,958	0.12	0.02	2,969
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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.27	0.97	< 0.005	0.04	—	0.04	0.04	—	0.04	—	162	162	0.01	< 0.005	163
Dust From Material Movement	—	—	—	—	—	0.15	0.15	—	0.07	0.07	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.23	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.8	26.8	< 0.005	< 0.005	26.9
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.90	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	203	203	< 0.005	0.01	206
Vendor	0.00	0.00	0.00	0.00	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	0.52	0.23	< 0.005	0.01	0.11	0.11	0.01	0.03	0.04	—	419	419	0.03	0.07	440
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.7	10.7	< 0.005	< 0.005	10.9

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.9	22.9	< 0.005	< 0.005	24.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.78	1.78	< 0.005	< 0.005	1.80
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.80	3.80	< 0.005	< 0.005	3.99

3.7. Building Construction (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	5.50	4.17	0.01	0.20	—	0.20	0.19	—	0.19	—	699	699	0.03	0.01	702
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	1.00	0.76	< 0.005	0.04	—	0.04	0.03	—	0.03	—	116	116	< 0.005	< 0.005	116
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.32	4.83	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,089	1,089	0.01	0.04	1,106
Vendor	0.03	1.08	0.54	0.01	0.01	0.27	0.28	0.01	0.07	0.08	—	1,016	1,016	0.06	0.14	1,062
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.35	4.17	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,037	1,037	0.02	0.04	1,049
Vendor	0.03	1.12	0.55	0.01	0.01	0.27	0.28	0.01	0.07	0.08	—	1,017	1,017	0.06	0.14	1,060
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.10	1.28	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	306	306	< 0.005	0.01	311
Vendor	0.01	0.33	0.16	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	296	296	0.02	0.04	309
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.23	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	50.7	50.7	< 0.005	< 0.005	51.4
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.1	49.1	< 0.005	0.01	51.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	5.50	4.17	0.01	0.20	—	0.20	0.19	—	0.19	—	699	699	0.03	0.01	702
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	1.00	0.76	< 0.005	0.04	—	0.04	0.03	—	0.03	—	116	116	< 0.005	< 0.005	116
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.32	4.83	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,089	1,089	0.01	0.04	1,106
Vendor	0.03	1.08	0.54	0.01	0.01	0.27	0.28	0.01	0.07	0.08	—	1,016	1,016	0.06	0.14	1,062

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.35	4.17	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,037	1,037	0.02	0.04	1,049
Vendor	0.03	1.12	0.55	0.01	0.01	0.27	0.28	0.01	0.07	0.08	—	1,017	1,017	0.06	0.14	1,060
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.10	1.28	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	306	306	< 0.005	0.01	311
Vendor	0.01	0.33	0.16	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	296	296	0.02	0.04	309
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.23	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	50.7	50.7	< 0.005	< 0.005	51.4
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.1	49.1	< 0.005	0.01	51.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.9. 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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	2,406

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	2.18	1.65	< 0.005	0.08	—	0.08	0.07	—	0.07	—	277	277	0.01	< 0.005	278
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.40	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	45.8	45.8	< 0.005	< 0.005	46.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.32	3.89	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,015	1,015	0.01	0.04	1,027
Vendor	0.03	1.08	0.53	0.01	0.01	0.27	0.28	0.01	0.07	0.08	—	1,001	1,001	0.06	0.14	1,043
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.04	0.47	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	119	119	< 0.005	< 0.005	120
Vendor	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	115	115	0.01	0.02	121
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	19.7	19.7	< 0.005	< 0.005	19.9
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	19.1	19.1	< 0.005	< 0.005	20.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	2.18	1.65	< 0.005	0.08	—	0.08	0.07	—	0.07	—	277	277	0.01	< 0.005	278
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.40	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	45.8	45.8	< 0.005	< 0.005	46.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.28	0.32	3.89	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,015	1,015	0.01	0.04	1,027
Vendor	0.03	1.08	0.53	0.01	0.01	0.27	0.28	0.01	0.07	0.08	—	1,001	1,001	0.06	0.14	1,043
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.04	0.47	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	119	119	< 0.005	< 0.005	120
Vendor	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	115	115	0.01	0.02	121
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	19.7	19.7	< 0.005	< 0.005	19.9
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	19.1	19.1	< 0.005	< 0.005	20.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	13.3	10.6	0.01	0.58	—	0.58	0.54	—	0.54	—	1,511	1,511	0.06	0.01	1,517
Paving	0.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.36	0.29	< 0.005	0.02	—	0.02	0.01	—	0.01	—	41.4	41.4	< 0.005	< 0.005	41.6
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.07	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.86	6.86	< 0.005	< 0.005	6.88
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.06	0.73	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	189	189	< 0.005	0.01	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.26	5.26	< 0.005	< 0.005	5.33
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	0.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	13.3	10.6	0.01	0.58	—	0.58	0.54	—	0.54	—	1,511	1,511	0.06	0.01	1,517
Paving	0.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.36	0.29	< 0.005	0.02	—	0.02	0.01	—	0.01	—	41.4	41.4	< 0.005	< 0.005	41.6
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.07	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.86	6.86	< 0.005	< 0.005	6.88
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.06	0.73	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	189	189	< 0.005	0.01	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.26	5.26	< 0.005	< 0.005	5.33
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	0.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	—	134	134	0.01	< 0.005	134
Architectural Coatings	24.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.06	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.84	7.84	< 0.005	< 0.005	7.87
Architectural Coatings	1.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.30	1.30	< 0.005	< 0.005	1.30
Architectural Coatings	0.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.83	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	207	207	< 0.005	0.01	210
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.3	12.3	< 0.005	< 0.005	12.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.04	2.04	< 0.005	< 0.005	2.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	—	134	134	0.01	< 0.005	134
Architectural Coatings	24.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.06	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.84	7.84	< 0.005	< 0.005	7.87
Architectural Coatings	1.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.30	1.30	< 0.005	< 0.005	1.30
Architectural Coatings	0.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.83	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	207	207	< 0.005	0.01	210
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.3	12.3	< 0.005	< 0.005	12.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.04	2.04	< 0.005	< 0.005	2.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	—	134	134	0.01	< 0.005	134
Architectural Coatings	24.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.1	19.1	< 0.005	< 0.005	19.1
Architectural Coatings	3.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.16	3.16	< 0.005	< 0.005	3.17
Architectural Coatings	0.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.78	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	203	203	< 0.005	0.01	205
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.4	29.4	< 0.005	< 0.005	29.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.87	4.87	< 0.005	< 0.005	4.93
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.16. Architectural Coating (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	—	134	134	0.01	< 0.005	134

Architectu Coatings	24.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.1	19.1	< 0.005	< 0.005	19.1
Architectu ral Coatings	3.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.16	3.16	< 0.005	< 0.005	3.17
Architectu ral Coatings	0.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.78	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	203	203	< 0.005	0.01	205
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.4	29.4	< 0.005	< 0.005	29.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.87	4.87	< 0.005	< 0.005	4.93
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.65	0.68	6.24	0.02	0.01	1.77	1.78	0.01	0.45	0.46	—	2,056	2,056	0.06	0.09	2,091
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.65	0.68	6.24	0.02	0.01	1.77	1.78	0.01	0.45	0.46	—	2,056	2,056	0.06	0.09	2,091

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.64	0.73	5.75	0.02	0.01	1.77	1.78	0.01	0.45	0.46	—	1,981	1,981	0.06	0.09	2,010
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.64	0.73	5.75	0.02	0.01	1.77	1.78	0.01	0.45	0.46	—	1,981	1,981	0.06	0.09	2,010
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.12	0.14	1.08	< 0.005	< 0.005	0.32	0.32	< 0.005	0.08	0.08	—	331	331	0.01	0.01	337
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.12	0.14	1.08	< 0.005	< 0.005	0.32	0.32	< 0.005	0.08	0.08	—	331	331	0.01	0.01	337

4.1.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.65	0.68	6.24	0.02	0.01	1.77	1.78	0.01	0.45	0.46	—	2,056	2,056	0.06	0.09	2,091
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.65	0.68	6.24	0.02	0.01	1.77	1.78	0.01	0.45	0.46	—	2,056	2,056	0.06	0.09	2,091
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.64	0.73	5.75	0.02	0.01	1.77	1.78	0.01	0.45	0.46	—	1,981	1,981	0.06	0.09	2,010
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.64	0.73	5.75	0.02	0.01	1.77	1.78	0.01	0.45	0.46	—	1,981	1,981	0.06	0.09	2,010
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	0.12	0.14	1.08	< 0.005	< 0.005	0.32	0.32	< 0.005	0.08	0.08	—	331	331	0.01	0.01	337
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.12	0.14	1.08	< 0.005	< 0.005	0.32	0.32	< 0.005	0.08	0.08	—	331	331	0.01	0.01	337

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	688	688	0.04	0.01	691
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2,552	2,552	0.16	0.02	2,561
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	111	111	0.01	< 0.005	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,351	3,351	0.21	0.03	3,364

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	688	688	0.04	0.01	691
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2,552	2,552	0.16	0.02	2,561
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	111	111	0.01	< 0.005	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,351	3,351	0.21	0.03	3,364
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	114	114	0.01	< 0.005	114
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	422	422	0.03	< 0.005	424
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	18.4	18.4	< 0.005	< 0.005	18.5
Total	—	—	—	—	—	—	—	—	—	—	—	555	555	0.03	< 0.005	557

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	688	688	0.04	0.01	691
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2,552	2,552	0.16	0.02	2,561
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	111	111	0.01	< 0.005	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,351	3,351	0.21	0.03	3,364
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	688	688	0.04	0.01	691
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2,552	2,552	0.16	0.02	2,561
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	111	111	0.01	< 0.005	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,351	3,351	0.21	0.03	3,364
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	114	114	0.01	< 0.005	114
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	422	422	0.03	< 0.005	424
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	18.4	18.4	< 0.005	< 0.005	18.5
Total	—	—	—	—	—	—	—	—	—	—	—	555	555	0.03	< 0.005	557

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	0.52	0.44	< 0.005	0.04	—	0.04	0.04	—	0.04	—	623	623	0.06	< 0.005	625
Refrigerated Warehouse-No Rail	0.03	0.61	0.51	< 0.005	0.05	—	0.05	0.05	—	0.05	—	727	727	0.06	< 0.005	729
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
Total	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	1,350	1,350	0.12	< 0.005	1,354

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	0.52	0.44	< 0.005	0.04	—	0.04	0.04	—	0.04	—	623	623	0.06	< 0.005	625
Refrigerated Warehouse-No Rail	0.03	0.61	0.51	< 0.005	0.05	—	0.05	0.05	—	0.05	—	727	727	0.06	< 0.005	729
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
Total	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	1,350	1,350	0.12	< 0.005	1,354
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	103	103	0.01	< 0.005	103
Refrigerated Warehouse-No Rail	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	120	120	0.01	< 0.005	121
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
Total	0.01	0.21	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	224	224	0.02	< 0.005	224

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	0.52	0.44	< 0.005	0.04	—	0.04	0.04	—	0.04	—	623	623	0.06	< 0.005	625
Refrigerated Warehouse-No Rail	0.03	0.61	0.51	< 0.005	0.05	—	0.05	0.05	—	0.05	—	727	727	0.06	< 0.005	729
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
Total	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	1,350	1,350	0.12	< 0.005	1,354
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	0.52	0.44	< 0.005	0.04	—	0.04	0.04	—	0.04	—	623	623	0.06	< 0.005	625
Refrigerated Warehouse-No Rail	0.03	0.61	0.51	< 0.005	0.05	—	0.05	0.05	—	0.05	—	727	727	0.06	< 0.005	729
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
Total	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	1,350	1,350	0.12	< 0.005	1,354
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	103	103	0.01	< 0.005	103
Refrigerated Warehouse-No Rail	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	120	120	0.01	< 0.005	121
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
Total	0.01	0.21	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	224	224	0.02	< 0.005	224

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	4.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.37	0.07	8.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.2	34.2	< 0.005	< 0.005	34.4
Total	5.96	0.07	8.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.2	34.2	< 0.005	< 0.005	34.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	4.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	4.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.17	0.01	1.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	3.90
Total	1.01	0.01	1.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	3.90

4.3.2. Mitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	4.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.37	0.07	8.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.2	34.2	< 0.005	< 0.005	34.4
Total	5.96	0.07	8.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.2	34.2	< 0.005	< 0.005	34.4

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	4.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	4.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.17	0.01	1.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	3.90
Total	1.01	0.01	1.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	3.90

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	44.7	231	276	4.60	0.11	424

Refrigerat Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	40.1	208	248	4.13	0.10	381
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	84.8	439	524	8.72	0.21	805
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	44.7	231	276	4.60	0.11	424
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	40.1	208	248	4.13	0.10	381
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	84.8	439	524	8.72	0.21	805
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	7.40	38.3	45.7	0.76	0.02	70.2
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	6.64	34.4	41.0	0.68	0.02	63.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	14.0	72.7	86.7	1.44	0.03	133

4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	44.7	231	276	4.60	0.11	424
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	40.1	208	248	4.13	0.10	381
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	84.8	439	524	8.72	0.21	805
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	44.7	231	276	4.60	0.11	424
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	40.1	208	248	4.13	0.10	381
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	84.8	439	524	8.72	0.21	805

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	7.40	38.3	45.7	0.76	0.02	70.2
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	6.64	34.4	41.0	0.68	0.02	63.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	14.0	72.7	86.7	1.44	0.03	133

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	51.1	0.00	51.1	5.11	0.00	179
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	45.9	0.00	45.9	4.58	0.00	160
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00

Total	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	51.1	0.00	51.1	5.11	0.00	179
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	45.9	0.00	45.9	4.58	0.00	160
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	8.46	0.00	8.46	0.85	0.00	29.6
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	7.59	0.00	7.59	0.76	0.00	26.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	16.1	0.00	16.1	1.60	0.00	56.2

4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	51.1	0.00	51.1	5.11	0.00	179
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	45.9	0.00	45.9	4.58	0.00	160
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	51.1	0.00	51.1	5.11	0.00	179
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	45.9	0.00	45.9	4.58	0.00	160
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	8.46	0.00	8.46	0.85	0.00	29.6
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	7.59	0.00	7.59	0.76	0.00	26.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	16.1	0.00	16.1	1.60	0.00	56.2

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	399
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	399

4.6.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	399
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	399

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	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	4/1/2024	6/21/2024	5.00	60.0	—
Site Preparation	Site Preparation	6/24/2024	7/5/2024	5.00	10.0	—
Grading	Grading	7/8/2024	8/2/2024	5.00	20.0	—
Building Construction	Building Construction	8/5/2024	2/28/2025	5.00	150	—
Paving	Paving	3/3/2025	3/14/2025	5.00	10.0	—
Architectural Coating	Architectural Coating	12/2/2024	3/14/2025	5.00	75.0	—

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	Concrete/Industrial Saws	Diesel	Tier 2	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 2	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 2	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 2	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 2	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 2	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 2	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 2	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 2	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 2	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 2	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 2	1.00	8.00	14.0	0.74

Building Construction	Tractors/Loaders/Backh	Diesel	Tier 2	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 2	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 2	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 2	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 2	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 2	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 2	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 2	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 2	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 2	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 2	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 2	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 2	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 2	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 2	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 2	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 2	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 2	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 2	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 2	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 2	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 2	2.00	8.00	89.0	0.36

Paving	Rollers	Diesel	Tier 2	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 2	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	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	28.9	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	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	15.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	5.90	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	80.4	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	31.4	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT

Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	16.1	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

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	28.9	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	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	15.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	5.90	20.0	HHDT

Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	80.4	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	31.4	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	16.1	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

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	287,091	95,697	5,227

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	150,626	—
Site Preparation	0.00	0.00	15.0	0.00	—
Grading	0.00	940	20.0	0.00	—
Paving	0.00	0.00	0.00	0.00	2.00

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
Unrefrigerated Warehouse-No Rail	0.00	0%
Refrigerated Warehouse-No Rail	0.00	0%
Parking Lot	2.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O

2024	0.00	532	0.03	< 0.005
2025	0.00	532	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
Unrefrigerated Warehouse-No Rail	328	328	328	119,650	2,498	2,498	2,498	911,754
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	328	328	328	119,650	2,498	2,498	2,498	911,754
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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	287,091	95,697	5,227

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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)
Unrefrigerated Warehouse-No Rail	472,080	532	0.0330	0.0040	1,944,269
Refrigerated Warehouse-No Rail	1,750,675	532	0.0330	0.0040	2,268,142
Parking Lot	76,317	532	0.0330	0.0040	0.00

5.11.2. Mitigated

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

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

Unrefrigerated Warehouse-No Rail	472,080	532	0.0330	0.0040	1,944,269
Refrigerated Warehouse-No Rail	1,750,675	532	0.0330	0.0040	2,268,142
Parking Lot	76,317	532	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	23,324,800	0.00
Refrigerated Warehouse-No Rail	20,935,063	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	23,324,800	0.00
Refrigerated Warehouse-No Rail	20,935,063	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	94.8	—
Refrigerated Warehouse-No Rail	85.1	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	94.8	—
Refrigerated Warehouse-No Rail	85.1	—
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
Refrigerated Warehouse-No Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Refrigerated Warehouse-No Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0

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

5.15.2. Mitigated

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

5.18.1.2. Mitigated

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

5.18.1.2. Mitigated

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)

5.18.2.2. Mitigated

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

8. User Changes to Default Data

Screen	Justification
Land Use	8.53-acre project site with approximately 222 parking spaces and a 191,394 sf industrial building, including 181,061 sf of warehouse uses and 10,333 sf of office space. Approximately 50% of warehouse space would be refrigerated.
Construction: Construction Phases	Construction would start in April 2024 and end in March 2025, demolition would be approximately 60 days. Assume overlap between architectural coating and building construction phases.
Construction: Off-Road Equipment	Default construction equipment, assuming tier 2 engines
Operations: Vehicle Data	Vehicles and light duty trucks only. Based on the project's trip generation of 328 ADT for passenger and light duty trucks.
Operations: Fleet Mix	Fleet mix adjusted to reflect passenger cars and light duty trucks only. Based on 312 passenger cars and 16 light duty trucks from a total of 328 ADT

3.3. Site Preparation (2024) - Unmitigated

3.4. Site Preparation (2024) - Mitigated

3.5. Grading (2024) - Unmitigated

3.6. Grading (2024) - Mitigated

3.7. Building Construction (2024) - Unmitigated

3.8. Building Construction (2024) - Mitigated

3.9. Building Construction (2025) - Unmitigated

3.10. Building Construction (2025) - Mitigated

3.11. Paving (2025) - Unmitigated

3.12. Paving (2025) - Mitigated

3.13. Architectural Coating (2024) - Unmitigated

3.14. Architectural Coating (2024) - Mitigated

3.15. Architectural Coating (2025) - Unmitigated

3.16. Architectural Coating (2025) - Mitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

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

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

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

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Cypress 5665 Plaza Drive - Heavy Heavy Duty Trucks
Construction Start Date	4/1/2024
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	6.20
Location	5665 Plaza Dr, Cypress, CA 90630, USA
County	Orange
City	Cypress
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5874
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

1.2. Land Use Types

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

Unrefrigerated Warehouse-No Rail	101	1000sqft	6.53	100,864	29,718	—	—	—
Refrigerated Warehouse-No Rail	90.5	1000sqft	0.00	90,530	0.00	0.00	—	—
Parking Lot	222	Space	2.00	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-5	Design Water-Efficient Landscapes

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.14	39.9	29.4	0.05	1.12	7.89	9.01	1.02	3.99	5.01	—	5,678	5,678	0.31	0.36	5,798
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	25.2	21.5	20.8	0.03	0.77	1.53	2.30	0.71	0.37	1.08	—	4,792	4,792	0.18	0.21	4,858
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.58	12.9	10.9	0.02	0.41	1.30	1.71	0.38	0.38	0.76	—	2,601	2,601	0.11	0.12	2,643
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.65	2.36	1.98	< 0.005	0.08	0.24	0.31	0.07	0.07	0.14	—	431	431	0.02	0.02	438

2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.14	39.9	29.4	0.05	1.12	7.89	9.01	1.02	3.99	5.01	—	5,678	5,678	0.31	0.36	5,798
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	25.0	21.5	20.8	0.03	0.77	1.53	2.30	0.71	0.37	1.08	—	4,792	4,792	0.18	0.21	4,858
2025	25.2	21.4	20.5	0.03	0.76	1.53	2.29	0.71	0.37	1.08	—	4,750	4,750	0.18	0.21	4,816
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.90	12.9	10.9	0.02	0.41	1.30	1.71	0.38	0.38	0.76	—	2,601	2,601	0.11	0.12	2,643
2025	3.58	2.87	2.75	< 0.005	0.11	0.19	0.29	0.10	0.05	0.14	—	606	606	0.02	0.02	615
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.35	2.36	1.98	< 0.005	0.08	0.24	0.31	0.07	0.07	0.14	—	431	431	0.02	0.02	438
2025	0.65	0.52	0.50	< 0.005	0.02	0.03	0.05	0.02	0.01	0.03	—	100	100	< 0.005	< 0.005	102

2.3. Construction Emissions by Year, Mitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.14	39.9	29.4	0.05	1.12	7.89	9.01	1.02	3.99	5.01	—	5,678	5,678	0.31	0.36	5,798
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2024	25.0	21.5	20.8	0.03	0.77	1.53	2.30	0.71	0.37	1.08	—	4,792	4,792	0.18	0.21	4,858
2025	25.2	21.4	20.5	0.03	0.76	1.53	2.29	0.71	0.37	1.08	—	4,750	4,750	0.18	0.21	4,816
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.90	12.9	10.9	0.02	0.41	1.30	1.71	0.38	0.38	0.76	—	2,601	2,601	0.11	0.12	2,643
2025	3.58	2.87	2.75	< 0.005	0.11	0.19	0.29	0.10	0.05	0.14	—	606	606	0.02	0.02	615
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.35	2.36	1.98	< 0.005	0.08	0.24	0.31	0.07	0.07	0.14	—	431	431	0.02	0.02	438
2025	0.65	0.52	0.50	< 0.005	0.02	0.03	0.05	0.02	0.01	0.03	—	100	100	< 0.005	< 0.005	102

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.17	13.3	14.3	0.10	0.26	2.85	3.11	0.25	0.77	1.02	182	15,884	16,066	19.5	1.95	19,571
Mit.	6.17	13.3	14.3	0.10	0.26	2.85	3.11	0.25	0.77	1.02	182	15,883	16,065	19.5	1.95	19,569
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	—	—	< 0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.80	13.7	5.99	0.10	0.25	2.85	3.10	0.24	0.77	1.01	182	15,852	16,034	19.5	1.95	19,516
Mit.	4.80	13.7	5.99	0.10	0.25	2.85	3.10	0.24	0.77	1.01	182	15,850	16,032	19.5	1.95	19,515
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	—	—	< 0.5%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	5.74	13.9	11.7	0.10	0.26	2.84	3.10	0.25	0.77	1.01	182	15,874	16,056	19.5	1.95	19,548
Mit.	5.74	13.9	11.7	0.10	0.26	2.84	3.10	0.25	0.77	1.01	182	15,873	16,055	19.5	1.95	19,546
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	—	—	< 0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.05	2.54	2.13	0.02	0.05	0.52	0.57	0.04	0.14	0.18	30.1	2,628	2,658	3.23	0.32	3,236
Mit.	1.05	2.54	2.13	0.02	0.05	0.52	0.57	0.04	0.14	0.18	30.1	2,628	2,658	3.23	0.32	3,236
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.15	12.1	5.02	0.10	0.16	2.85	3.01	0.15	0.77	0.92	—	10,707	10,707	0.79	1.71	11,260
Area	5.96	0.07	8.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.2	34.2	< 0.005	< 0.005	34.4
Energy	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	4,701	4,701	0.33	0.03	4,717
Water	—	—	—	—	—	—	—	—	—	—	84.8	442	527	8.72	0.21	808
Waste	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	6.17	13.3	14.3	0.10	0.26	2.85	3.11	0.25	0.77	1.02	182	15,884	16,066	19.5	1.95	19,571
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.15	12.5	5.04	0.10	0.16	2.85	3.01	0.15	0.77	0.92	—	10,709	10,709	0.79	1.71	11,239
Area	4.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	4,701	4,701	0.33	0.03	4,717

Water	—	—	—	—	—	—	—	—	—	—	84.8	442	527	8.72	0.21	808
Waste	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	4.80	13.7	5.99	0.10	0.25	2.85	3.10	0.24	0.77	1.01	182	15,852	16,034	19.5	1.95	19,516
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.15	12.7	5.03	0.10	0.16	2.84	3.00	0.15	0.77	0.92	—	10,708	10,708	0.79	1.71	11,248
Area	5.53	0.05	5.70	< 0.005	0.01	—	0.01	0.01	—	0.01	—	23.4	23.4	< 0.005	< 0.005	23.5
Energy	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	4,701	4,701	0.33	0.03	4,717
Water	—	—	—	—	—	—	—	—	—	—	84.8	442	527	8.72	0.21	808
Waste	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	5.74	13.9	11.7	0.10	0.26	2.84	3.10	0.25	0.77	1.01	182	15,874	16,056	19.5	1.95	19,548
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	2.32	0.92	0.02	0.03	0.52	0.55	0.03	0.14	0.17	—	1,773	1,773	0.13	0.28	1,862
Area	1.01	0.01	1.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	3.90
Energy	0.01	0.21	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	778	778	0.05	< 0.005	781
Water	—	—	—	—	—	—	—	—	—	—	14.0	73.2	87.2	1.44	0.03	134
Waste	—	—	—	—	—	—	—	—	—	—	16.1	0.00	16.1	1.60	0.00	56.2
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	399
Total	1.05	2.54	2.13	0.02	0.05	0.52	0.57	0.04	0.14	0.18	30.1	2,628	2,658	3.23	0.32	3,236

2.6. Operations Emissions by Sector, Mitigated

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

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

Mobile	0.15	12.1	5.02	0.10	0.16	2.85	3.01	0.15	0.77	0.92	—	10,707	10,707	0.79	1.71	11,260
Area	5.96	0.07	8.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.2	34.2	< 0.005	< 0.005	34.4
Energy	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	4,701	4,701	0.33	0.03	4,717
Water	—	—	—	—	—	—	—	—	—	—	84.8	440	525	8.72	0.21	806
Waste	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	6.17	13.3	14.3	0.10	0.26	2.85	3.11	0.25	0.77	1.02	182	15,883	16,065	19.5	1.95	19,569
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.15	12.5	5.04	0.10	0.16	2.85	3.01	0.15	0.77	0.92	—	10,709	10,709	0.79	1.71	11,239
Area	4.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	4,701	4,701	0.33	0.03	4,717
Water	—	—	—	—	—	—	—	—	—	—	84.8	440	525	8.72	0.21	806
Waste	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	4.80	13.7	5.99	0.10	0.25	2.85	3.10	0.24	0.77	1.01	182	15,850	16,032	19.5	1.95	19,515
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.15	12.7	5.03	0.10	0.16	2.84	3.00	0.15	0.77	0.92	—	10,708	10,708	0.79	1.71	11,248
Area	5.53	0.05	5.70	< 0.005	0.01	—	0.01	0.01	—	0.01	—	23.4	23.4	< 0.005	< 0.005	23.5
Energy	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	4,701	4,701	0.33	0.03	4,717
Water	—	—	—	—	—	—	—	—	—	—	84.8	440	525	8.72	0.21	806
Waste	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	5.74	13.9	11.7	0.10	0.26	2.84	3.10	0.25	0.77	1.01	182	15,873	16,055	19.5	1.95	19,546
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	2.32	0.92	0.02	0.03	0.52	0.55	0.03	0.14	0.17	—	1,773	1,773	0.13	0.28	1,862
Area	1.01	0.01	1.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	3.90

Energy	0.01	0.21	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	778	778	0.05	< 0.005	781
Water	—	—	—	—	—	—	—	—	—	—	14.0	72.9	87.0	1.44	0.03	133
Waste	—	—	—	—	—	—	—	—	—	—	16.1	0.00	16.1	1.60	0.00	56.2
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	399
Total	1.05	2.54	2.13	0.02	0.05	0.52	0.57	0.04	0.14	0.18	30.1	2,628	2,658	3.23	0.32	3,236

3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	24.9	18.2	0.03	0.79	—	0.79	0.71	—	0.71	—	3,425	3,425	0.14	0.03	3,437
Demolition	—	—	—	—	—	2.44	2.44	—	0.37	0.37	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	4.10	2.99	0.01	0.13	—	0.13	0.12	—	0.12	—	563	563	0.02	< 0.005	565
Demolition	—	—	—	—	—	0.40	0.40	—	0.06	0.06	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.75	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	93.2	93.2	< 0.005	< 0.005	93.5
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.90	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	203	203	< 0.005	0.01	206
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	2.54	1.11	0.01	0.03	0.52	0.55	0.03	0.15	0.17	—	2,049	2,049	0.16	0.33	2,155
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	32.2	32.2	< 0.005	< 0.005	32.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.44	0.18	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	337	337	0.03	0.05	354
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.34	5.34	< 0.005	< 0.005	5.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.08	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	55.8	55.8	< 0.005	0.01	58.6

3.2. Demolition (2024) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	24.9	18.2	0.03	0.79	—	0.79	0.71	—	0.71	—	3,425	3,425	0.14	0.03	3,437
Demolition	—	—	—	—	—	2.44	2.44	—	0.37	0.37	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	4.10	2.99	0.01	0.13	—	0.13	0.12	—	0.12	—	563	563	0.02	< 0.005	565
Demolition	—	—	—	—	—	0.40	0.40	—	0.06	0.06	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.75	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	93.2	93.2	< 0.005	< 0.005	93.5
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.90	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	203	203	< 0.005	0.01	206
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	2.54	1.11	0.01	0.03	0.52	0.55	0.03	0.15	0.17	—	2,049	2,049	0.16	0.33	2,155

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	32.2	32.2	< 0.005	< 0.005	32.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.44	0.18	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	337	337	0.03	0.05	354
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.34	5.34	< 0.005	< 0.005	5.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.08	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	55.8	55.8	< 0.005	0.01	58.6

3.3. Site Preparation (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	39.9	28.3	0.05	1.12	—	1.12	1.02	—	1.02	—	5,296	5,296	0.21	0.04	5,314
Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.03	1.09	0.78	< 0.005	0.03	—	0.03	0.03	—	0.03	—	145	145	0.01	< 0.005	146
Dust From Material Movement	—	—	—	—	—	0.21	0.21	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.20	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	24.1
Dust From Material Movement	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	1.05	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	237	237	< 0.005	0.01	241
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.27	6.27	< 0.005	< 0.005	6.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.04	1.04	< 0.005	< 0.005	1.05

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

3.4. Site Preparation (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	39.9	28.3	0.05	1.12	—	1.12	1.02	—	1.02	—	5,296	5,296	0.21	0.04	5,314
Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	1.09	0.78	< 0.005	0.03	—	0.03	0.03	—	0.03	—	145	145	0.01	< 0.005	146
Dust From Material Movement	—	—	—	—	—	0.21	0.21	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.20	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	24.1

Dust From Material Movement	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	1.05	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	237	237	< 0.005	0.01	241
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.27	6.27	< 0.005	< 0.005	6.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.04	1.04	< 0.005	< 0.005	1.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2024) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.73	23.2	17.8	0.03	0.75	—	0.75	0.69	—	0.69	—	2,958	2,958	0.12	0.02	2,969
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.27	0.97	< 0.005	0.04	—	0.04	0.04	—	0.04	—	162	162	0.01	< 0.005	163
Dust From Material Movement	—	—	—	—	—	0.15	0.15	—	0.07	0.07	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.23	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.8	26.8	< 0.005	< 0.005	26.9
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.90	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	203	203	< 0.005	0.01	206

Vendor	0.00	0.00	0.00	0.00	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	0.52	0.23	< 0.005	0.01	0.11	0.11	0.01	0.03	0.04	—	419	419	0.03	0.07	440
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.7	10.7	< 0.005	< 0.005	10.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.9	22.9	< 0.005	< 0.005	24.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.78	1.78	< 0.005	< 0.005	1.80
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.80	3.80	< 0.005	< 0.005	3.99

3.6. Grading (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.73	23.2	17.8	0.03	0.75	—	0.75	0.69	—	0.69	—	2,958	2,958	0.12	0.02	2,969
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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.27	0.97	< 0.005	0.04	—	0.04	0.04	—	0.04	—	162	162	0.01	< 0.005	163
Dust From Material Movement	—	—	—	—	—	0.15	0.15	—	0.07	0.07	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.23	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.8	26.8	< 0.005	< 0.005	26.9
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.90	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	203	203	< 0.005	0.01	206
Vendor	0.00	0.00	0.00	0.00	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	0.52	0.23	< 0.005	0.01	0.11	0.11	0.01	0.03	0.04	—	419	419	0.03	0.07	440
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.7	10.7	< 0.005	< 0.005	10.9

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.9	22.9	< 0.005	< 0.005	24.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.78	1.78	< 0.005	< 0.005	1.80
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.80	3.80	< 0.005	< 0.005	3.99

3.7. Building Construction (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	5.50	4.17	0.01	0.20	—	0.20	0.19	—	0.19	—	699	699	0.03	0.01	702
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	1.00	0.76	< 0.005	0.04	—	0.04	0.03	—	0.03	—	116	116	< 0.005	< 0.005	116
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.32	4.83	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,089	1,089	0.01	0.04	1,106
Vendor	0.03	1.08	0.54	0.01	0.01	0.27	0.28	0.01	0.07	0.08	—	1,016	1,016	0.06	0.14	1,062
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.35	4.17	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,037	1,037	0.02	0.04	1,049
Vendor	0.03	1.12	0.55	0.01	0.01	0.27	0.28	0.01	0.07	0.08	—	1,017	1,017	0.06	0.14	1,060
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.10	1.28	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	306	306	< 0.005	0.01	311
Vendor	0.01	0.33	0.16	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	296	296	0.02	0.04	309
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.23	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	50.7	50.7	< 0.005	< 0.005	51.4
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.1	49.1	< 0.005	0.01	51.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	5.50	4.17	0.01	0.20	—	0.20	0.19	—	0.19	—	699	699	0.03	0.01	702
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	1.00	0.76	< 0.005	0.04	—	0.04	0.03	—	0.03	—	116	116	< 0.005	< 0.005	116
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.32	4.83	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,089	1,089	0.01	0.04	1,106
Vendor	0.03	1.08	0.54	0.01	0.01	0.27	0.28	0.01	0.07	0.08	—	1,016	1,016	0.06	0.14	1,062

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.35	4.17	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,037	1,037	0.02	0.04	1,049
Vendor	0.03	1.12	0.55	0.01	0.01	0.27	0.28	0.01	0.07	0.08	—	1,017	1,017	0.06	0.14	1,060
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.10	1.28	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	306	306	< 0.005	0.01	311
Vendor	0.01	0.33	0.16	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	296	296	0.02	0.04	309
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.23	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	50.7	50.7	< 0.005	< 0.005	51.4
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.1	49.1	< 0.005	0.01	51.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.9. 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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	2,406

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	2.18	1.65	< 0.005	0.08	—	0.08	0.07	—	0.07	—	277	277	0.01	< 0.005	278
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.40	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	45.8	45.8	< 0.005	< 0.005	46.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.32	3.89	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,015	1,015	0.01	0.04	1,027
Vendor	0.03	1.08	0.53	0.01	0.01	0.27	0.28	0.01	0.07	0.08	—	1,001	1,001	0.06	0.14	1,043
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.04	0.47	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	119	119	< 0.005	< 0.005	120
Vendor	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	115	115	0.01	0.02	121
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	19.7	19.7	< 0.005	< 0.005	19.9
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	19.1	19.1	< 0.005	< 0.005	20.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	2.18	1.65	< 0.005	0.08	—	0.08	0.07	—	0.07	—	277	277	0.01	< 0.005	278
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.40	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	45.8	45.8	< 0.005	< 0.005	46.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.28	0.32	3.89	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,015	1,015	0.01	0.04	1,027
Vendor	0.03	1.08	0.53	0.01	0.01	0.27	0.28	0.01	0.07	0.08	—	1,001	1,001	0.06	0.14	1,043
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.04	0.47	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	119	119	< 0.005	< 0.005	120
Vendor	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	115	115	0.01	0.02	121
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	19.7	19.7	< 0.005	< 0.005	19.9
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	19.1	19.1	< 0.005	< 0.005	20.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	13.3	10.6	0.01	0.58	—	0.58	0.54	—	0.54	—	1,511	1,511	0.06	0.01	1,517
Paving	0.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.36	0.29	< 0.005	0.02	—	0.02	0.01	—	0.01	—	41.4	41.4	< 0.005	< 0.005	41.6
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.07	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.86	6.86	< 0.005	< 0.005	6.88
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.06	0.73	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	189	189	< 0.005	0.01	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.26	5.26	< 0.005	< 0.005	5.33
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	0.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	13.3	10.6	0.01	0.58	—	0.58	0.54	—	0.54	—	1,511	1,511	0.06	0.01	1,517
Paving	0.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.36	0.29	< 0.005	0.02	—	0.02	0.01	—	0.01	—	41.4	41.4	< 0.005	< 0.005	41.6
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.07	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.86	6.86	< 0.005	< 0.005	6.88
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.06	0.73	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	189	189	< 0.005	0.01	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.26	5.26	< 0.005	< 0.005	5.33
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	0.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	—	134	134	0.01	< 0.005	134
Architectural Coatings	24.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.06	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.84	7.84	< 0.005	< 0.005	7.87
Architectural Coatings	1.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.30	1.30	< 0.005	< 0.005	1.30
Architectural Coatings	0.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.83	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	207	207	< 0.005	0.01	210
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.3	12.3	< 0.005	< 0.005	12.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.04	2.04	< 0.005	< 0.005	2.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	—	134	134	0.01	< 0.005	134
Architectural Coatings	24.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.06	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.84	7.84	< 0.005	< 0.005	7.87
Architectural Coatings	1.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.30	1.30	< 0.005	< 0.005	1.30
Architectural Coatings	0.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.83	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	207	207	< 0.005	0.01	210
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.3	12.3	< 0.005	< 0.005	12.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.04	2.04	< 0.005	< 0.005	2.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	—	134	134	0.01	< 0.005	134
Architectural Coatings	24.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.1	19.1	< 0.005	< 0.005	19.1
Architectural Coatings	3.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.16	3.16	< 0.005	< 0.005	3.17
Architectural Coatings	0.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.78	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	203	203	< 0.005	0.01	205
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.4	29.4	< 0.005	< 0.005	29.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.87	4.87	< 0.005	< 0.005	4.93
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.16. Architectural Coating (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	—	134	134	0.01	< 0.005	134

Architectu Coatings	24.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.1	19.1	< 0.005	< 0.005	19.1
Architectu ral Coatings	3.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.16	3.16	< 0.005	< 0.005	3.17
Architectu ral Coatings	0.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.78	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	203	203	< 0.005	0.01	205
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.4	29.4	< 0.005	< 0.005	29.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.87	4.87	< 0.005	< 0.005	4.93
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.15	12.1	5.02	0.10	0.16	2.85	3.01	0.15	0.77	0.92	—	10,707	10,707	0.79	1.71	11,260
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.15	12.1	5.02	0.10	0.16	2.85	3.01	0.15	0.77	0.92	—	10,707	10,707	0.79	1.71	11,260

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.15	12.5	5.04	0.10	0.16	2.85	3.01	0.15	0.77	0.92	—	10,709	10,709	0.79	1.71	11,239
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.15	12.5	5.04	0.10	0.16	2.85	3.01	0.15	0.77	0.92	—	10,709	10,709	0.79	1.71	11,239
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	2.32	0.92	0.02	0.03	0.52	0.55	0.03	0.14	0.17	—	1,773	1,773	0.13	0.28	1,862
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.03	2.32	0.92	0.02	0.03	0.52	0.55	0.03	0.14	0.17	—	1,773	1,773	0.13	0.28	1,862

4.1.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.15	12.1	5.02	0.10	0.16	2.85	3.01	0.15	0.77	0.92	—	10,707	10,707	0.79	1.71	11,260
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.15	12.1	5.02	0.10	0.16	2.85	3.01	0.15	0.77	0.92	—	10,707	10,707	0.79	1.71	11,260
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.15	12.5	5.04	0.10	0.16	2.85	3.01	0.15	0.77	0.92	—	10,709	10,709	0.79	1.71	11,239
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.15	12.5	5.04	0.10	0.16	2.85	3.01	0.15	0.77	0.92	—	10,709	10,709	0.79	1.71	11,239
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	0.03	2.32	0.92	0.02	0.03	0.52	0.55	0.03	0.14	0.17	—	1,773	1,773	0.13	0.28	1,862
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.03	2.32	0.92	0.02	0.03	0.52	0.55	0.03	0.14	0.17	—	1,773	1,773	0.13	0.28	1,862

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	688	688	0.04	0.01	691
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2,552	2,552	0.16	0.02	2,561
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	111	111	0.01	< 0.005	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,351	3,351	0.21	0.03	3,364

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	688	688	0.04	0.01	691
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2,552	2,552	0.16	0.02	2,561
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	111	111	0.01	< 0.005	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,351	3,351	0.21	0.03	3,364
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	114	114	0.01	< 0.005	114
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	422	422	0.03	< 0.005	424
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	18.4	18.4	< 0.005	< 0.005	18.5
Total	—	—	—	—	—	—	—	—	—	—	—	555	555	0.03	< 0.005	557

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	688	688	0.04	0.01	691
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2,552	2,552	0.16	0.02	2,561
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	111	111	0.01	< 0.005	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,351	3,351	0.21	0.03	3,364
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	688	688	0.04	0.01	691
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2,552	2,552	0.16	0.02	2,561
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	111	111	0.01	< 0.005	112
Total	—	—	—	—	—	—	—	—	—	—	—	3,351	3,351	0.21	0.03	3,364
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	114	114	0.01	< 0.005	114
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	422	422	0.03	< 0.005	424
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	18.4	18.4	< 0.005	< 0.005	18.5
Total	—	—	—	—	—	—	—	—	—	—	—	555	555	0.03	< 0.005	557

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	0.52	0.44	< 0.005	0.04	—	0.04	0.04	—	0.04	—	623	623	0.06	< 0.005	625
Refrigerated Warehouse-No Rail	0.03	0.61	0.51	< 0.005	0.05	—	0.05	0.05	—	0.05	—	727	727	0.06	< 0.005	729
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
Total	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	1,350	1,350	0.12	< 0.005	1,354

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	0.52	0.44	< 0.005	0.04	—	0.04	0.04	—	0.04	—	623	623	0.06	< 0.005	625
Refrigerated Warehouse-No Rail	0.03	0.61	0.51	< 0.005	0.05	—	0.05	0.05	—	0.05	—	727	727	0.06	< 0.005	729
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
Total	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	1,350	1,350	0.12	< 0.005	1,354
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	103	103	0.01	< 0.005	103
Refrigerated Warehouse-No Rail	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	120	120	0.01	< 0.005	121
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
Total	0.01	0.21	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	224	224	0.02	< 0.005	224

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	0.52	0.44	< 0.005	0.04	—	0.04	0.04	—	0.04	—	623	623	0.06	< 0.005	625
Refrigerated Warehouse-No Rail	0.03	0.61	0.51	< 0.005	0.05	—	0.05	0.05	—	0.05	—	727	727	0.06	< 0.005	729
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
Total	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	1,350	1,350	0.12	< 0.005	1,354
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	0.52	0.44	< 0.005	0.04	—	0.04	0.04	—	0.04	—	623	623	0.06	< 0.005	625
Refrigerated Warehouse-No Rail	0.03	0.61	0.51	< 0.005	0.05	—	0.05	0.05	—	0.05	—	727	727	0.06	< 0.005	729
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
Total	0.06	1.13	0.95	0.01	0.09	—	0.09	0.09	—	0.09	—	1,350	1,350	0.12	< 0.005	1,354
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	103	103	0.01	< 0.005	103
Refrigerated Warehouse-No Rail	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	120	120	0.01	< 0.005	121
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
Total	0.01	0.21	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	224	224	0.02	< 0.005	224

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	4.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.37	0.07	8.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.2	34.2	< 0.005	< 0.005	34.4
Total	5.96	0.07	8.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.2	34.2	< 0.005	< 0.005	34.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	4.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	4.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.17	0.01	1.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	3.90
Total	1.01	0.01	1.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	3.90

4.3.2. Mitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	4.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.37	0.07	8.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.2	34.2	< 0.005	< 0.005	34.4
Total	5.96	0.07	8.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.2	34.2	< 0.005	< 0.005	34.4

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	4.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	4.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.17	0.01	1.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	3.90
Total	1.01	0.01	1.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	3.90

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	44.7	234	279	4.60	0.11	427

Refrigerat Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	40.1	208	248	4.13	0.10	381
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	84.8	442	527	8.72	0.21	808
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	44.7	234	279	4.60	0.11	427
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	40.1	208	248	4.13	0.10	381
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	84.8	442	527	8.72	0.21	808
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	7.40	38.8	46.2	0.76	0.02	70.7
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	6.64	34.4	41.0	0.68	0.02	63.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	14.0	73.2	87.2	1.44	0.03	134

4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	44.7	233	277	4.60	0.11	425
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	40.1	208	248	4.13	0.10	381
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	84.8	440	525	8.72	0.21	806
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	44.7	233	277	4.60	0.11	425
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	40.1	208	248	4.13	0.10	381
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	84.8	440	525	8.72	0.21	806

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	7.40	38.5	45.9	0.76	0.02	70.4
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	6.64	34.4	41.0	0.68	0.02	63.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	14.0	72.9	87.0	1.44	0.03	133

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	51.1	0.00	51.1	5.11	0.00	179
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	45.9	0.00	45.9	4.58	0.00	160
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00

Total	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	51.1	0.00	51.1	5.11	0.00	179
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	45.9	0.00	45.9	4.58	0.00	160
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	8.46	0.00	8.46	0.85	0.00	29.6
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	7.59	0.00	7.59	0.76	0.00	26.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	16.1	0.00	16.1	1.60	0.00	56.2

4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	51.1	0.00	51.1	5.11	0.00	179
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	45.9	0.00	45.9	4.58	0.00	160
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	51.1	0.00	51.1	5.11	0.00	179
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	45.9	0.00	45.9	4.58	0.00	160
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	97.0	0.00	97.0	9.69	0.00	339
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	8.46	0.00	8.46	0.85	0.00	29.6
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	7.59	0.00	7.59	0.76	0.00	26.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	16.1	0.00	16.1	1.60	0.00	56.2

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	399
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	399

4.6.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,413

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	399
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	399

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	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	4/1/2024	6/21/2024	5.00	60.0	—
Site Preparation	Site Preparation	6/24/2024	7/5/2024	5.00	10.0	—
Grading	Grading	7/8/2024	8/2/2024	5.00	20.0	—
Building Construction	Building Construction	8/5/2024	2/28/2025	5.00	150	—
Paving	Paving	3/3/2025	3/14/2025	5.00	10.0	—
Architectural Coating	Architectural Coating	12/2/2024	3/14/2025	5.00	75.0	—

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	Concrete/Industrial Saws	Diesel	Tier 2	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 2	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 2	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 2	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 2	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 2	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 2	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 2	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 2	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 2	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 2	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 2	1.00	8.00	14.0	0.74

Building Construction	Tractors/Loaders/Backh	Diesel	Tier 2	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 2	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 2	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 2	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 2	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 2	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 2	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 2	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 2	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 2	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 2	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 2	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 2	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 2	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 2	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 2	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 2	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 2	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 2	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 2	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 2	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 2	2.00	8.00	89.0	0.36

Paving	Rollers	Diesel	Tier 2	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 2	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	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	28.9	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	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	15.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	5.90	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	80.4	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	31.4	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT

Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	16.1	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

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	28.9	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	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	15.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	5.90	20.0	HHDT

Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	80.4	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	31.4	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	16.1	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

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	287,091	95,697	5,227

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	150,626	—
Site Preparation	0.00	0.00	15.0	0.00	—
Grading	0.00	940	20.0	0.00	—
Paving	0.00	0.00	0.00	0.00	2.00

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
Unrefrigerated Warehouse-No Rail	0.00	0%
Refrigerated Warehouse-No Rail	0.00	0%
Parking Lot	2.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O

2024	0.00	532	0.03	< 0.005
2025	0.00	532	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
Unrefrigerated Warehouse-No Rail	77.7	77.7	77.7	28,348	3,107	3,107	3,107	1,133,913
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	77.7	77.7	77.7	28,348	3,107	3,107	3,107	1,133,913
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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	287,091	95,697	5,227

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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)
Unrefrigerated Warehouse-No Rail	472,080	532	0.0330	0.0040	1,944,269
Refrigerated Warehouse-No Rail	1,750,675	532	0.0330	0.0040	2,268,142
Parking Lot	76,317	532	0.0330	0.0040	0.00

5.11.2. Mitigated

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

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

Unrefrigerated Warehouse-No Rail	472,080	532	0.0330	0.0040	1,944,269
Refrigerated Warehouse-No Rail	1,750,675	532	0.0330	0.0040	2,268,142
Parking Lot	76,317	532	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	23,324,800	385,156
Refrigerated Warehouse-No Rail	20,935,063	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	23,324,800	167,212
Refrigerated Warehouse-No Rail	20,935,063	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	94.8	—
Refrigerated Warehouse-No Rail	85.1	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	94.8	—
Refrigerated Warehouse-No Rail	85.1	—
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
Refrigerated Warehouse-No Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Refrigerated Warehouse-No Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0

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

5.15.2. Mitigated

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

5.18.1.2. Mitigated

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

5.18.1.2. Mitigated

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)

5.18.2.2. Mitigated

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

8. User Changes to Default Data

Screen	Justification
Land Use	8.53-acre project site with approximately 222 parking spaces and a 191,394 sf industrial building, including 181,061 sf of warehouse uses and 10,333 sf of office space. Approximately 50% of warehouse space would be refrigerated. In addition, based on the preliminary water quality report, the total pervious area would be 29,718 sf. This analysis assumes all pervious area would be landscaped.
Construction: Construction Phases	Construction would start in April 2024 and end in March 2025, demolition would be approximately 60 days. Assume overlap between architectural coating and building construction phases.
Construction: Off-Road Equipment	Default construction equipment, assuming tier 2 engines
Operations: Vehicle Data	Heavy heavy duty trucks (HHDT) only. Based on the project's trip generation of 78 ADT for HHDT trucks. Trip length adjusted to 40 miles
Operations: Fleet Mix	Fleet mix adjusted to reflect HHDT only

APPENDIX B

PHASE I ENVIRONMENTAL SITE ASSESSMENT

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Phase I Environmental Site Assessment
5665 Plaza Drive
Cypress, California

Prepared for:
GNAP Development, LLC

18201 Von Karman Ave, Ste 1170
Irvine, California 92612

Prepared by:
Stantec Consulting Services Inc.
735 E. Carnegie Dr, Ste 280
San Bernardino, California 92408

Stantec PN: 185805282

September 3, 2021

Sign-off Sheet and Signatures of Environmental Professionals

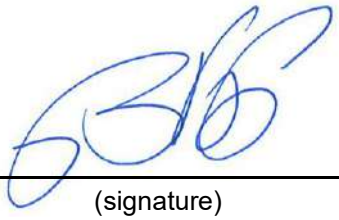
This document entitled Phase I Environmental Site Assessment was prepared by Stantec Consulting Services Inc. (Stantec) for the account of GNAP Development, LLC (collectively the "Client") The material in it reflects Stantec's best judgment in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Stantec accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

All information, conclusions, and recommendations provided by Stantec in this document regarding the Phase I ESA have been prepared under the supervision of and reviewed by the professionals whose signatures appear below.

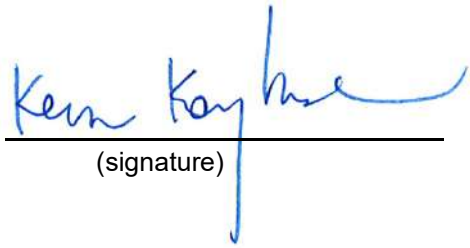
I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the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

Author (signature)

Alicia Jansen
Associate Scientist

Quality Reviewer  (signature)

Brian Viggiano, PG
Senior Geologist

Independent Reviewer  (signature)

Kevin Miskin, P.E.
Senior Principal Engineer

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Abbreviations

AAI	All Appropriate Inquiry
ACM	Asbestos containing material
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
BER	Business Environmental Risk
CAA	Clean Air Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulation
CREC	Controlled Recognized Environmental Conditions
CWA	Clean Water Act
ELUC	Environmental Land Use Control
EP	Environmental Professional
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
FEMA	Federal Emergency Management Agency
ft msl	Feet above mean sea level
HREC	Historical Recognized Environmental Conditions
HWMU	Hazardous Waste Management Unit
LBP	Lead-based Paint
LUST	Leaking Underground Storage Tank
NESHAP	National Emissions Standard for Hazardous Air Pollutants
PAHs	Polynuclear Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Conditions
SWMU	Solid Waste Management Unit
TRC	Target Remediation Criteria
TSCA	Toxic Substance Control Act
USDA	United States Department of Agriculture
USGS	United States Geological Survey
UST	Underground Storage Tank
VEC	Vapor Encroachment Condition
VOCs	Volatile Organic Compounds

1.0 SUMMARY

Stantec Consulting Services Inc. (Stantec) has completed a Phase I Environmental Site Assessment (ESA) report of the property located at 5665 Plaza Drive, City of Cypress, County of Orange, California (the "Site" or "Property"), on behalf of GNAP Development, LLC (the "Client"). The work was performed according to Stantec's proposal and terms and conditions dated July 20, 2021. GNAP Development, LLC (the "User") has been designated as the User of this report.

The Phase I ESA was conducted in conformance with the requirements of American Society for Testing and Materials (ASTM) Designation E 1527-13, except as may have been modified by the scope of work, and terms and conditions, requested by the Client. Any exceptions to, or deletions from, the ASTM practice are described in the Data Gaps section of this report.

The Property consists of approximately 8.09 acres of land currently developed with one five-story office building and associated asphalt parking lot. Surrounding properties consists of commercial/office structures. A Property location map is illustrated on Figure 1. A Property map illustrating the main features of the Property is provided as Figure 2. Photographs taken during the site reconnaissance visit are provided in Appendix A.

According to historical documents including topographic maps, a railroad line was located along the northern property boundary and the Property was also used historically for agricultural purposes until circa 1980. Based on the adjacent railroad line and historical agricultural use, pesticides and or herbicides may have been utilized on the Property and near-surface soils may have at one time contained these compounds. However, the Property has been commercially developed since the 1990s and the soils have been reworked. Given the intended future use of the Property is not residential and there is no intended off-site disposal, no further assessment appears warranted at this time. Should off-site disposal of soil be required, Stantec recommends the soil is sampled for profiling purposes prior to removal.

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of 5665 Plaza Drive, City of Cypress, County of Orange, California, the Property. Any exceptions to, or deletions from, this practice are described in the Data Gaps section of this report. This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the Property. No further assessment is warranted at this time.

The preceding summary is intended for informational purposes only. Reading of the full body of this report is recommended.

2.0 INTRODUCTION

The objective of this Phase I ESA was to perform appropriate inquiry into the past ownership and uses of the Property consistent with good commercial or customary practice as outlined by the ASTM in "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process", Designation E1527-13. The purpose of this Phase I ESA was to identify, to the extent feasible, adverse environmental conditions including recognized environmental conditions ("RECs") of the Property.

The ASTM E1527-13 standard indicates that the purpose of the Phase I ESA is to identify RECs, including historical recognized environmental conditions ("HRECs"), and controlled recognized environmental conditions ("CRECs") that may exist at a property. The term "recognized environmental conditions" means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property:

(1) Due to any release to the environment;

(2) Under conditions indicative of a release to the environment; or

(3) Under conditions that pose a material threat of a future release to the environment.

ASTM defines a "HREC" as a REC that has occurred in connection with the property but has been addressed to the satisfaction of the applicable regulatory authority and meets unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a HREC, the environmental professional ("EP") must determine whether the past release is a REC when the current Phase I ESA is conducted (for example, if there has been a change in the regulations). If the EP considers the past release to be a REC at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a REC.

ASTM defines a "CREC" as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), but with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

De minimis conditions are not RECs. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. As indicated, the term REC does not include de minimis conditions, which generally do not present a material risk to human health and would not likely be subject to enforcement action if brought to the attention of governmental agencies.

This ESA was conducted in accordance with our proposal dated July 20, 2021. The scope of work conducted during this Phase I ESA consisted of a visual reconnaissance of the Property, interviews with key individuals, and review of reasonably ascertainable documents. The scope of work did not include an assessment for environmental regulatory compliance of any facility ever operated at the Property (past or present), or sampling and analyzing of environmental media. Stantec was not contracted to perform any

independent evaluation of the purchase or lease price of the Property and its relationship to current fair market value. The conclusions presented in this ESA report are professional opinions based on data described herein. The opinions are subject to the limitations described in Section 2.3.

ASTM E1527-13 notes that the availability of record information varies from source to source. The User or Environmental Professional is not obligated to identify, obtain, or review every possible source that might exist with respect to a property. Instead, ASTM identifies record information that is reasonably ascertainable from standard sources. "Reasonably ascertainable" means:

(1) Information that is publicly available;

(2) Information that is obtainable from its source within reasonable time and cost constraints; and

(3) Information that is practicably reviewable.

2.1 PROPERTY DESCRIPTION

The Property consists of approximately 8.09 acres of land currently developed with one five-story office building and associated asphalt parking lot. Surrounding properties consists of commercial/office structures. A Property location map is illustrated on Figure 1. A Property map illustrating the main features of the Property is provided as Figure 2. Photographs taken during the site reconnaissance visit are provided in Appendix A.

The Assessor Parcel Number (APN) associated with the Property is 241-101-025. The Property Owner is identified as G&I IX Cypress Campus LP.

2.2 SPECIAL TERMS, CONDITIONS, AND SIGNIFICANT ASSUMPTIONS

There were no special terms, conditions, or significant assumptions associated with this Phase I ESA.

2.3 EXCEPTIONS AND LIMITING CONDITIONS

This report documents work that was performed in accordance with generally accepted professional standards at the time and location in which the services were provided and given the schedule and budget constraints established by the client. No other representations, warranties, or guarantees are made concerning the accuracy or completeness of the data or conclusions contained within this report, including no assurance that this work has uncovered all potential and actual liabilities and conditions associated with the identified property.

This report provides an evaluation of selected environmental conditions associated with the identified portion of the property that was assessed at the time the work was conducted and is based on information obtained by and/or provided to Stantec at that time. There are no assurances regarding the accuracy and completeness of this information. All information received from the client or third parties in the preparation of this report has been assumed by Stantec to be correct. Stantec assumes no responsibility for any deficiency or inaccuracy in information received from others.

If a service is not expressly indicated, do not assume it has been provided. If a matter is not addressed, do not assume that any determination has been made by Stantec in regard to it.

Conclusions made within this report consist of Stantec's professional opinion as of the time of the writing of this report and are based solely on the scope of work described in the report, the limited data available, and the results of the work. They are not a certification of the property's environmental condition.

This report relates solely to the specific project for which Stantec was retained and the stated purpose for which this report was prepared and shall not be used or relied upon by the client identified herein for any variation or extension of this project, any other project, or any other purpose.

This report has been prepared for the exclusive use of the client identified herein and any use of or reliance on this report by any third party is prohibited, except as may be consented to in writing by Stantec or as required by law. The provision of any such consent is at Stantec's sole and unfettered discretion and will only be authorized pursuant to the conditions of Stantec's standard form reliance letter. Stantec assumes no responsibility for losses, damages, liabilities, or claims, howsoever arising, from third party use of this report.

Project Specific limiting conditions are provided in Section 2.2.

The locations of any utilities, buildings and structures, and property boundaries illustrated in or described within this report, if any, including pole lines, conduits, water mains, sewers and other surface or sub-surface utilities and structures are not guaranteed. Before starting work, the exact location of all such utilities and structures must be confirmed by the client and Stantec assumes no liability resulting from damage to such utilities and structures.

The conclusions are based on the conditions encountered at the Property by Stantec at the time the work was conducted. Accordingly, additional studies and actions may be required. As the purpose of this report is to identify selected Property conditions which may pose an environmental risk; the identification of non-environmental risks to structures or people on the Property is beyond the scope of this assessment. The findings, observations, and conclusions expressed by Stantec in this report are not an opinion concerning the compliance of any past or present owner or operator of the Property which is the subject of this report with any Federal, state, provincial or local law or regulation.

This report presents professional opinions and findings of a scientific and technical nature. It does not and shall not be construed to offer a legal opinion or representations as to the requirements of, nor compliance with, environmental laws, rules, regulations or policies of Federal, state, provincial or local governmental agencies. Issues raised by the report should be reviewed by client legal counsel.

Stantec specifically disclaims any responsibility to update the conclusions in this report if new or different information later becomes available or if the conditions or activities on the property subsequently change.

2.4 PERSONNEL QUALIFICATIONS

This Phase I ESA was conducted by, or under the supervision of, an individual that meets the ASTM definition of an Environmental Professional (EP). The credentials of the EP and other key Stantec personnel involved in conducting this Phase I ESA are provided in Appendix B.

3.0 USER-PROVIDED INFORMATION

ASTM E1527-13 describes responsibilities of the User to complete certain tasks in connection with the performance of "All Appropriate Inquiries" into the Property. The ASTM standard requires that the Environmental Professional request information from the User on the results of those tasks because that information can assist in the identification of RECs, CRECs, HRECs, or de minimis conditions in connection with the Property. Towards that end, Stantec requested that the User provide the following documents and information:

Description of Information	Provided (Yes / No)	Description and/or Key Findings
User Questionnaire	Yes	The User was not aware of any environmental cleanup liens, or activity use limitations associated with the Property. The User is aware that the Property was used for office/industrial and prior to that dairy farming.
Environmental Liens or Activity Use Limitations	No	Land title records, deeds, environmental liens, and activity and use limitation documentation were not provided by the User, and public records were not searched by Stantec.
Previous Environmental Permits or Reports Provided by User	Yes	Stantec was provided with the following environmental reports: • *Final Phase I Environmental Site Assessment of Mitsubishi Electric & Electronics USA, Inc., 5665 Plaza Drive, Cypress, California 90630 prepared by Golder Associates, dated July 2002*. • *2016 Annual Environmental Audit, prepared by ESIS, dated June 22, 2016.* Pertinent information is used and referenced throughout this report.
Purpose of the Phase I ESA	Yes	Due Diligence

The User provided information is included in Appendix C.

Stantec sent the User Questionnaire form to Mr. Matt McGuire, Vice President of Entitlements for the Client. The user questionnaire was forward to the Property Owner Representative, Ms. Lan Lan, Senior Real Estate Manager with CBRE. A completed user questionnaire was provided by Ms. Lan and is included in Appendix C.

4.0 RECORDS REVIEW

The objective of consulting historical sources of information is to develop the history of the Property and surrounding area, in order to evaluate if past uses may have resulted in RECs. Physical setting records are evaluated to determine if the physical setting may have contributed to adverse environmental conditions in connection with the Property. During the review of historical records, Stantec attempted to identify uses of the Property from the present to the first developed use of the Property. Stantec's research included the reasonably ascertainable and useful records described in this section.

4.1 PHYSICAL SETTING

A summary of the physical setting of the Property is provided in the table below with additional details in the following subsections

Topography:	The Property is relatively flat with an approximate 36 feet above mean sea level (amsl) elevation with a general topographic gradient to the southwest (EDR, 2021).
Soil/Bedrock Data:	According to previous Phase I ESA prepared by Golder, geotechnical borings advanced on the Property indicated the subsurface consists of sands, silty sands, sandy silts, and silty clays.
Estimated Depth to Groundwater/ Estimated Direction of Gradient:	A perched water-bearing zone was encountered beneath the Property at approximately 6 to 6.5 feet below ground surface (bgs). The groundwater flow direction was not reported; however, groundwater likely follows the topographic gradient to the southwest.
Note: Site-specific groundwater direction and depth can only be determined by conducting site-specific testing, which Stantec has not conducted.	

4.1.1 Property Topography and Surface Water Flow

The Property is relatively flat with an approximate 36 feet above mean sea level (amsl) elevation with a general topographic gradient to the southwest (EDR, 2021). The Coyote Creek is located approximately 2.8 miles to the west of the Property.

4.1.2 Regional and Property Geology

The Property is located within the Coastal Plain of Orange County, which underlies a coastal alluvial plain in northwestern Orange County and the Santa Ana Watershed. The basin is constrained by non-porous rocks to the north, east, and south, and the Pacific Ocean to the southwest and a low topographic divide to the northwest. The basin consists of upper, middle, and lower aquifers that are contained in marine and non-marine sediments (Department of Water Resources [DWR], 2004).

According to previous Phase I ESA prepared by Golder, geotechnical borings advanced on the Property indicated the subsurface consists of sands, silty sands, sandy silts, and silty clays.

4.1.3 Regional and Property Hydrogeology

The Property is located in the Orange County Basin, which is dominated by a deep structural depression containing a thick accumulation of fresh water-bearing interbedded marine and continental sand, silt, and clay deposits (DWR, 2004). The supper aquifer system included Holocene alluvium, older alluvium, stream terraces, and the upper Pleistocene deposits represented by the La Habra formation. Generally, the upper aquifer system contains a lower percentage of water-bearing strata in the northwest and coastal portions of the area where clays and clayey silts dominate.

According to previous Phase I ESA prepared by Golder, a perched water-bearing zone was encountered beneath the Property at approximately 6 to 6.5 feet below ground surface (bgs). The groundwater flow direction was not reported; however, groundwater likely follows the topographic gradient to the southwest.

4.2 FEDERAL, STATE AND TRIBAL ENVIRONMENTAL RECORDS

A regulatory agency database search report was obtained from Environmental Data Resources (EDR), a third-party environmental database search firm. A complete copy of the database search report, including the date the report was prepared, the date the information was last updated, and the definition of databases searched, is provided in Appendix D.

Stantec evaluated the information listed within the database relative to potential impact to the Property, assessing the potential for impacts based in part on the physical setting. As part of this process, inferences have been made regarding the likely groundwater flow direction at or near the Property. As described in 4.1.3, the inferred shallow groundwater flow direction is to the southwest. Observations about the Property and surrounding properties made during the Property reconnaissance are provided in more detail in Section 5.

4.2.1 Listings for Property

The Property address was identified not identified in the environmental database report.

4.2.2 Listings for Nearby Sites with Potential to Impact Property

Stantec assessed data presented in the environmental agency database search report to evaluate the potential for conditions on adjacent and nearby sites to pose a REC, CREC, or HREC for the Property. The evaluation included an opinion of the potential for contamination by hazardous substances or petroleum products to migrate to the Property from a nearby property, including by vapor migration or encroachment (i.e., potential for a vapor encroachment condition [VEC].

Based on this evaluation, the following individual facilities were identified as the most likely potential sources of impact to the Property. The basis for why each of the following listed databases creates a REC for the property is also provided.

Listed Facility Name/Address	Database Listing	Distance/Direction from Property	REC? (YES / NO)
Mitsubishi Elevator; Mitsubishi Electric Automotive America; Transwestern; RREEF Management Co. Inc.; and Contract Application 5757 Plaza Drive Cypress, CA 90630	HAZNET, HWTS, FINDS, ECHO, EMI, and RCRA-SQG	Adjacent to the east	No
The facility was considered a small quantity generator of hazardous waste (other organic solids, unspecified aqueous solutions, paint sludge, and waste/mixed oil) with off-site disposal and no reported violations. No additional information or indication of any underground storage tanks were provided by EDR or available online. Therefore, the environmental listings are not considered a REC.			
Precision Ferrites & Ceramics 5576 Corporate Drive Cypress, CA 90630	RCRA-SQG; FINDS; ECHO; HAZNET; HWTS	Approximately 95 feet to the northwest	No
The facility is listed as a small quantity generator of hazardous waste with no reported violations. Given there are no underground features or evidence of a release, this listing is not considered an environmental concern to the Property and no further assessment is warranted.			
Focus Diagnostics 10743 Progress Way Cypress, CA 90630	RCRA-SQG; FINDS; ECHO;	Approximately 179 feet to the west-northwest	No
The facility is listed as a small quantity generator of hazardous waste with no reported violations. Given there are no underground features or evidence of a release, this listing is not considered an environmental concern to the Property and no further assessment is warranted.			
CA-959 Phoneswitch/Headend – Cypress (Time Warner) 5575 Corporate Ave Cypress, CA 90630	AST	Approximately 228 feet to the northwest	No
The facility is listed as having a 1,320-gallon aboveground storage tank (AST) associated with Time Warner Cable. No additional information was provided by EDR or available online. Given there are no underground features or evidence of a release, this listing is not considered an environmental concern to the Property and no further assessment is warranted.			
Yaskawa 5626 Corporate Avenue Cypress, CA 90630	RCRA-SQG	Approximately 287 feet to the north	No
The facility is listed as a small quantity generator of hazardous waste with no reported violations. Given there are no underground features or evidence of a release, this listing is not considered an environmental concern to the Property and no further assessment is warranted.			
Mobil Corporation 5636 Corporate Avenue 4 Cypress, CA 90630	EDR Hist Auto	Approximately 303 feet to the north	No
The facility is listed as a gasoline service station in 1991 and 1992. No additional information was provided by EDR or available online. Given the distance and there is no evidence of a release, this			

Listed Facility Name/Address	Database Listing	Distance/Direction from Property	REC? (YES / NO)
listing is not considered an environmental concern to the Property and no further assessment is warranted.			
Linotype Hell Co 5646 Corporate Avenue Cypress, CA 90630	RCRA-SQG; FINDS; ECHO; HAZNET; HWTS	Approximately 318 feet to the north	No
The facility is listed as a small quantity generator of hazardous waste with no reported violations. Given there are no underground features or evidence of a release, this listing is not considered an environmental concern to the Property and no further assessment is warranted.			
The Boeing Company / OK International / Cook Compression A Dover Company 10800 Valley View Street Cypress, CA 90630	ENVIROSTOR; CERS HAZ WASTE; Orange Co. Industrial Site; EMI; HAZNET; NPDES; CERS; HWTS; RCRA NonGen/NLR	Approximately 321 feet to the east	No
The facility is listed as having undergone an evaluation for oil and water and received closure on January 27, 2005. No additional information was provided by EDR or available online. Minor administration violations were issued. However, all violations were corrected and the facility was returned to compliance. Given there are no underground features or evidence of a release, this listing is not considered an environmental concern to the Property and no further assessment is warranted.			

The remaining listings in the database search report provided in Appendix D do not constitute a potential REC for the Property.

4.3 LOCAL/REGIONAL ENVIRONMENTAL RECORDS

Stantec checked the following sources to obtain information pertaining to Property use and/or indications of RECs in connection with the Property:

4.3.1 Orange County Department of Environmental Health

Agency Name Contact Information	Finding
Orange County Department of Environmental Health (OCHCA) 1241 East Dyer Road, Suite 120 Santa Ana, CA 92705 Phone: (714) 433-6000	The OCHCA provided records for the Property on August 2, 2021. Records available included inspection reports for hazards materials disclosures/inspections for Reef (Transwestern) on July 20, 2016; November 3, 2017; and November 18, 2020. Diesel fuel (160 gallons) was noted associated with the diesel generator. No violations or indication of a release were reported. Copies of the available records are provided in Appendix F.

4.3.2 Orange County Fire Authority

Agency Name Contact Information	Finding
Orange County Fire Authority (OCFA) 1 Fire Authority Road Irvine, CA 92602 Phone: (714) 573-6000	On July 21, 2021, the OCFA provided available records for the Property address. These records included routine inspection notes. No evidence indicating a release were observed in these records. Copies of the available records are provided in Appendix F.

4.3.3 California Regional Water Quality Control Board (CRWQCB)

Agency Name, Contact Information	Findings
Regional Water Quality Control Board (RWQCB), Santa Ana, Region 8 3737 Main Street, Suite 500 Riverside, CA 92501 Phone: 951-7823-4130 Online database: https://geotracker.waterboards.ca.gov	According to an email dated July 23, 2001, there are no records for the Property addresses. Additionally, there are no records for the Property or adjoining facilities listed on the RWQCB's online database Geotracker.

4.3.4 Department of Toxic Substances Control (DTSC)

Agency Name Contact Information	Finding
Department of Toxic Substances Control (DTSC) 5796 Corporate Ave., Cypress, CA 90630 Date Access: August 4, 2021 Online database: https://www.envirostor.dtsc.ca.gov	No records for the Property or adjoining facilities were listed on the DTSC online database Envirostor.

4.3.5 California Geologic Energy Management Division (CalGEM)

Agency Name Contact Information	Finding
California Geologic Energy Management Division (CalGEM) 5816 Corporate Avenue, Suite 200 Cypress, CA 90630 Online database: http://www.conservation.ca.gov/ dog/Pages/WellFinder.aspx Date Access: August 4, 2021	According to the CalGEM wellfinder, there are no oil wells within the Property boundaries. There are no oil wells within a one-mile radius of the Property.

4.3.6 City of Cypress Building Department

Agency Name Contact Information	Finding
City of Cypress Building Department 5275 Orange Avenue Cypress, CA 90630 Phone: 714-229-6680	On July 27, 2021, Ms. Sara Salazar, Executive Assistant to the City Council & City Manager, provided available records for the Property address. Records provided included building permits for tenant improvements. No records of environmental significance were observed. Copies of the available records are provided in Appendix F.

4.4 HISTORICAL RECORDS REVIEW

4.4.1 Land Title Records/Deeds

Land title records, deeds, environmental liens, and activity and use limitation documentation were not provided by the User, and public records were not searched by Stantec.

4.4.2 Aerial Photographs

Stantec reviewed historical aerial photographs provided by EDR. The general type of activity on a property and land use changes can often be discerned from the type and layout of structures visible in the photographs. However, specific elements of a facility's operation usually cannot be discerned from aerial photographs alone. The following table summarizes Stantec's observations of the reviewed historical aerial photographs.

Year	Scale	Observations, Property and Adjoining Properties
1928	1=500'	The Property and surrounding area appear to be vacant land. The southern portion of the Property is not depicted on the photograph. Railroad tracks appear adjacent to the north.
1938 1947 1952 1954	1=500'	The Property and surrounding area appear to be used for light agricultural purposes. Railroad tracks appear adjacent to the north.
1963	1=500'	The Property and surrounding area remain utilized for light agricultural purposes. Urban development appears to the north.
1977	1=500'	The Property and surrounding area remain utilized for light agricultural purposes. An air station appears to the south beyond a roadway.
1979 1981	1=500'	The Property and surrounding area remain utilized for light agricultural purposes. Commercial development appears to the northwest. A golf course appears to the south.

Year	Scale	Observations, Property and Adjoining Properties
1983	1=500’	The Property and surrounding area to the north, east, and west remain used for light agricultural purposes. A commercial building appears to the south.
1990	1=500’	The Property is developed with the current commercial/office building with an asphalt parking lot to the north. The area south of the Property building is under development for a parking lot. Commercial buildings appear to the north, east, and south. Vacant land appears adjacent to the west. The railroad tracks to the north are no longer present.
1994	1=500’	The Property and surrounding area appear similar to the previous photograph. An asphalt parking lot appears adjacent to the south of the Property building.
2002 2016	1=500’	The Property appears to reflect current conditions. Additional commercial development appears to the west and southwest.

Name of aerial photograph source: EDR, 2021

4.4.3 City Directories

Stantec retained EDR to research available reverse city directories for the Property, in approximately five-year intervals. The following is a summary of Stantec’s review of the city directory listings:

Subject/Adjoining Property	Year	Listed Occupants
Subject Property – 5665 Plaza Drive	2014	CBHM Beacon; Pacific Residential Finance; Toyo Tire; Transfirst Corporate Sales LLC; Transwestern Property Management
Subject Property – 5665 Plaza Drive	2010	Mitsubishi Electric; Mitsubishi Elevators; Montrenes Consulting; Pacific Residential Finance; Telecom RCM; US Merchant SVC
Subject Property – 5665 Plaza Drive	2005	1ST UST Merchant Services; Mitsubishi Electric; Montrenes Financial Services; US Merchant SVC
Subject Property – 5665 Plaza Drive	1995	Mitsubishi Electronics America; Suda Y
Adjoining N 5576 Corporate Avenue	--	Not listed
Adjoining N 5676 Corporate Avenue	--	Not listed
Adjoining E 5757 Plaza Drive	2014	Bybrid Promotions LLC; Hybrid Promotions LLC
Adjoining E 5757 Plaza Drive	2010	Cenic; Various Doctors; Pacific Care of California
Adjoining E 5757 Plaza Drive	2005	Cenic; Corp for Education; Jacobs Engineering Group Inc; Mitsubishi Digital Elec Amr; National Lamdarail Inc; Pacific Health Systems

Subject/Adjoining Property	Year	Listed Occupants
Adjoining E 5757 Plaza Drive	1995	Ericsson Business Comms; Leif Isaksson; Bjorn Lundgren; Lars Rymert; Stig Siogren
Adjoining E 5757 Plaza Drive	1992	Pacificare
Adjoining E 5757 Plaza Drive	1987	Mitsubishi Elec Sls
Adjoining S 5701 Katella Avenue	--	Not listed
Adjoining W 10880 Walker Avenue	--	Not listed

Name of city directories and source: EDR, 2021

4.4.4 Historical Fire Insurance Maps

Fire insurance maps were developed for use by insurance companies to depict facilities, properties, and their uses for many locations throughout the United States. These maps provide information on the history of prior land use and are useful in assessing whether there may be potential environmental contamination on or near the Property. These maps, which have been periodically updated since the late 19th century, often provide valuable insight into historical Property uses.

Stantec requested fire insurance maps from EDR; however, no coverage exists for the Property. The Sanborn® Map Search Report indicating "no coverage" is presented in Appendix E.

4.4.5 Historical Topographic Maps

Stantec reviewed historical USGS 7.5-minute Topographic Maps of the Los Alamitos, Downey, and Artesia, California Quadrangle (scale 1:24,000) to help identify past Property usage and areas of potential environmental concern. Copies of the historical maps are provided in Appendix E. The following table summarizes the maps reviewed and our observations.

Year	Scale	Observations, Property and Adjoining Sites
1896 1899	1=62,500	The Property and surrounding area are depicted as vacant land. No structures or indicators of potential RECs were depicted on the map.
1902	1=62,500	The Property and surrounding area are depicted as vacant land. Railroad tracks appear adjacent to the north. A water feature (i.e. drainage) appears adjacent to the west.
1923 1925 1945	1=24,000	These topographic maps did not have coverage of the Property.
1935 1942 1943 1947	1=31,680 1=62,500 1=24,000	The Property and surrounding area are depicted as vacant land. Railroad tracks appear adjacent to the north. The Texas Oil Tank Farm appears approximately ½ mile to the northwest.
1949 1950	1=24,000	The Property and surrounding area appear similar to the previous maps. A race track appears to the west.

Year	Scale	Observations, Property and Adjoining Sites
1964 1972 1981	1=24,000	No structures or indicators of potential RECs were depicted on the Property. The Los Alamitos Air Station appears to the south beyond Katella Avenue. A golf course and the Los Alamitos Racetrack appear to the west-northwest.
2012	1=24,000	No details are depicted on the map. Roadways appear to reflect the current configuration.

Name of maps and source: EDR, 2021

4.4.6 Other Historical Sources

The following reports were provided by the User for the Property.

- *Final Phase I Environmental Site Assessment of Mitsubishi Electric & Electronics USA, Inc., 5665 Plaza Drive, Cypress, California 90630 prepared by Golder Associates, dated July 2002*.

Golder Associates (Golder) performed a Phase I ESA of the subject Property in 2002 and identified no RECs in connections with the Property. However, the following items of note were observed:

- Mitsubishi Elevator was listed on the HAZNET database for disposing of paint sludge and other organic solids through a transfer station. However, the facility supervisor for Mitsubishi Electric stated no hazardous wastes have been stored at the Property.

- The emergency diesel-powered generator is currently permitted by the AQMD with one violation issued on August 19, 1999 for failure to maintain the generator operating log. However, the engine ran in compliance with the allowable cumulative hours of operation based on the automatic running schedule.

- Golder collected 27 bulk samples of suspect ACMs during their 2002 Phase I ESA. The analytical results indicated the presence of asbestos in the roof penetration mastic on the building. Golder recommended that an Operations and Maintenance Plan be developed for the building.

- Golder collected six carbon dioxide and carbon monoxide samples from each of the five floors. All results were below the ASHRAE maximum ambient indoor air level of 800 ppm for carbon dioxide and 9 ppm for carbon monoxide.

- Water leakage and stained ceiling panels was observed on each of the five floors and suspect fungal growth was observed on the 2nd floor janitors closet drywall and 2nd floor women's restroom floor grout. Golder recommended that all leaks be repaired, and damaged materials removed.

- Significant oil staining was observed surrounding the hydraulic trash compactor located outside the northeast corner of the site building. This area should be steamed cleaned and better housekeeping and maintenance should be implemented.

- *2016 Annual Environmental Audit, prepared by ESIS, Inc. – Health, Safety & Environmental, dated June 22, 2016.*

ESIS, Inc. – Health, Safety & Environmental, (ESIS) performed an annual environmental audit (AEA) for the Property to evaluate the overall environmental status of the Property with emphasis on tenants that are engaged in the storage and use of hazardous materials and generation of hazardous waste. The tenants during this audit included Beacon CBHM, LLC (Healthcare Services Administration Offices) in Suites 100, 400, and 410; Toyo Tires (Administration Offices) in Suites 200 and 300; and Nitto Tires (Administrative Offices) in Suite 250.

No significant environmental concerns were noted in the AEA in 2016 or the previous AEAs conducted by ESIS and other consultants between 2004 and 2015. One double-walled secondarily contained approximately 200-gallon diesel day tank associated with the emergency generator was located on the building roof. ESIS recommended that a Flammable Materials Permit be obtained from the OCFA for storing flammable liquids in the Aboveground Storage Tank (AST) onsite. The South Coast Air Quality Management District (SCAQMD) identified the Property as Facility ID No. 159181 for the operation of the diesel generator.

At the time of the site reconnaissance, no chemicals and hazardous wastes were identified in the tenant suites with the exception of small quantities of commercial cleaners and water treatment chemicals (inhibitors and biocides) associated with a cooling tower that services the onsite building. The cooling tower is maintained by an outside vendor.

5.0 SITE RECONNAISSANCE

A visit to the Property and its vicinity was conducted by Ms. Alicia Jansen, Associate Scientist with Stantec on July 27, 2021. Access to the Property was coordinated by Client representative Mr. Matthew McGuire. Stantec was accompanied by Ms. Lan Lan of CBRE during the Property visit. Figure 2 provides information about the Property and adjoining properties and the location of potential areas of environmental concern. Photographs collected during the Property visit are included in Appendix A.

5.1 SITE RECONNAISSANCE METHODOLOGY

The site reconnaissance focused on observation of current conditions and observable indications of past uses and conditions of the Property that may indicate the presence of RECs. The reconnaissance of the Property was conducted on foot and Stantec utilized the following methodology to observe the Property:

- Traverse the outer Property boundary.
- Traverse transects across the Property.
- Traverse the periphery of all structures on the Property.
- Visually observe accessible interior areas expected to be used by occupants or the public, maintenance and repair areas, utility areas, and a representative sample of occupied spaces.

Weather conditions during the visit to the Property were clear and sunny. There were no weather-related Property access restrictions encountered during the reconnaissance visit.

5.2 GENERAL DESCRIPTION

Property and Area Description:	The Property is located north of Plaza Drive in the City of Cypress, County of Orange, California. Surrounding properties consists of commercial and office buildings.
Property Operations.	The Property is primarily vacant with one administrative tenant remaining.
Structures, Roads, Other Improvements:	The Property is developed with a five-story office building that has a total of 151,589 square feet of tenant space surrounded by asphalt parking and landscaped areas.
Property Size (acres):	Approximately 8.09 acres.
Estimated % of Property Covered by Buildings and/or Pavement:	95%
Observed Current Property Use/Operations:	Office space.
Observed Evidence of Past Property Use(s):	None observed.

Sewage Disposal Method (and age):	City of Cypress.
Potable Water Source:	City of Cypress.
Electric Utility:	Southern California Edison.

5.3 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS

The following table summarizes Stantec's observations during the Property reconnaissance.

Observations	Description/Location
Hazardous Substances and Petroleum Products as Defined by CERCLA 42 U.S.C. § 9601(14):	None observed.
Drums (≥ 5 gallons):	None observed.
Strong, Pungent, or Noxious Odors:	None detected.
Pools of Liquid:	None observed.
Unidentified Substance Containers:	None observed.
PCB-Containing Equipment:	One pad-mounted transformer was observed along the southwestern exterior of the building. The transformer appears to be in good condition without any indication of leaking or staining.
Other Observed Evidence of Hazardous Substances or Petroleum Products:	Small quantities of commercial cleaners were observed in the janitors closets. Additionally, water treatment chemicals (inhibitors and biocides) were observed that are associated with the roof-mounted cooling tower that services the onsite building. The cooling tower is maintained by an outside vendor. The containers appeared in good condition with no indication of leaking or staining. An elevator maintenance room was observed on the roof. The elevator hydraulic systems appeared in good condition without any indication of leaking or staining.

5.4 INTERIOR OBSERVATIONS

Stantec made the following observations during the Property reconnaissance of the building interiors at the Property and/or identified the following information during the interview or records review portions of the assessment:

Observations	Description
Heating/Cooling Method:	Roof-mounted HVAC units and a cooling tower are located on the roof.
Surface Stains or Corrosion:	None observed.
Floor Drains and Sumps:	None observed.
Other Interior Observations:	None observed.

5.5 EXTERIOR OBSERVATIONS

Stantec made the following observations during the site reconnaissance of exterior areas of the Property and/or identified the following information during the interview or records review portions of the assessment:

Observations	Description
On-site Pits, Ponds, or Lagoons:	None observed.
Stained Soil or Pavement:	None observed.
Stressed Vegetation:	None observed.
Waste Streams and Waste Collection Areas:	A trash enclosure was observed on the northwestern perimeter of the Property. No evidence of illegal disposal was observed.
Solid Waste Disposal:	No areas indicative of solid waste disposal were observed.
Potential Areas of Fill Placement:	No mounds, piles or depressions suggesting the placement of fill material were observed on the Property.
Wastewater:	No exterior wastewater discharge was observed.
Stormwater:	Concrete drainage swales leading to stormwater drains observed in the asphalt parking lots. No evidence of illegal disposal associated with the stormwater was observed.
Wells:	None observed.
Septic Systems:	No visible evidence of the existence of a septic system was observed.
Other Exterior Observations:	A cooling towner with water treatment chemicals (inhibitors and biocides) was observed on the roof. The cooling tower appeared in good condition without any indication of leaking or staining. The cooling tower is maintained by an outside vendor.

5.6 UNDERGROUND STORAGE TANKS/STRUCTURES

Existing USTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface patches), which would indicate the presence of USTs, was discovered during the site reconnaissance.
Former USTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface patches), reports, or other evidence of the former presence of USTs was discovered during this Phase I ESA.

Other Underground Structures:	None observed.

5.7 ABOVEGROUND STORAGE TANKS

Existing ASTs:	An approximately 2,00-gallon aboveground storage tank (AST) containing diesel fuel associated with the backup generator was observed on the roof of the building. The generator appeared in good condition without any indication of leaking or staining. No visible evidence (fill pipes, vent pipes, dispensers, surface stains), which would indicate the presence of additional ASTs, was discovered during the site reconnaissance.
Former ASTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface stains), reports, or other evidence of the former presence of ASTs was discovered during this Phase I ESA.

5.8 ADJOINING PROPERTIES

5.8.1 Current Uses of Adjoining Properties

As viewed from the Property and/or from public rights-of-way, Stantec made the following observations about use and activities on adjoining properties:

NORTH	Commercial/Office Building.
SOUTH	Commercial/Office Building.
EAST	Commercial/Office Building.
WEST	Commercial/Office Building.

5.8.2 Observed Evidence of Past Uses of Adjoining Properties

Observations of adjoining properties providing indications of past use and activities, if any, are described below.

NORTH	None observed.
SOUTH	None observed.
EAST	None observed.
WEST	None observed.

5.8.3 Pits, Ponds or Lagoons on Adjoining Properties

As viewed from the Property and/or from public rights-of-way, Stantec made the following observations about the presence of pits, ponds and lagoons on adjoining properties:

NORTH	None observed.
SOUTH	None observed.
EAST	None observed.
WEST	None observed.

5.9 OBSERVED PHYSICAL SETTING

Topography of the Property and Surrounding Area:	The Property and surrounding area are relatively flat.

6.0 INTERVIEWS

Stantec conducted interviews with the following individuals:

Name and contact information	Relationship to Property	Key findings:
Ms. Lan Lan CBRE	Property Owner Representative for 6 years	Ms. Lan is not aware of any current or former USTs or environmental issues associated with the Property. Also, Ms. Lan is not aware of any chemical or petroleum storage currently or formerly on the Property.

7.0 EVALUATION

7.1 FINDINGS AND OPINIONS

Information gathered from interviews, reviews of existing data, and a Property inspection was evaluated to determine if RECs are present in connection with the Property. Based on this information, Stantec made the following findings and developed the following opinions.

- The Property consists of approximately 8.09 acres of land developed in circa 1990 with the current five-story office building and associated asphalt parking lot. According to historical documents including topographic maps, a railroad line was located along the northern property boundary and was historically utilized for agricultural purposes until circa 1980. Based on the adjacent railroad line and historical agricultural use, pesticides and or herbicides may have been utilized on the Property and near-surface soils may have at one time contained these compounds. However, the Property has been commercially developed since the 1990s and the soils have been reworked.

  Given the intended future use of the Property is not residential and there is no intended off-site disposal, no further assessment appears warranted at this time. Should off-site disposal of soil be required, Stantec recommends the soil is sampled for profiling purposes prior to removal.

- An environmental records search was performed and identified sites within their respective ASTM E 1527-13 search radii of the Property that may represent RECs, HRECs, or de minimis conditions.

  Based on one or more of the following reasons: distance from the Property, position of sites with respect to assumed groundwater flow direction, the native soils, and regulatory status, none of the sites identified in the in the environmental records search report are expected to affect soil or groundwater quality at the Property. The environmental records search identified no RECs, HRECs or de minimis conditions at or near the Property.

- During the site reconnaissance, Stantec observed a diesel-powered backup generator and cooling tower with water treatment chemicals on the roof. An elevator maintenance room was also observed on the roof in good condition. The generator and cooling tower appeared in good condition without any indication of leaking or staining; therefore, these features are not considered a REC or HREC.

  No other indications of RECs, HRECs or de minimis conditions were observed that are likely to have affected the Property.

7.2 DATA GAPS

The federal AAI rule [40 CFR 312.10(a)] and ASTM E1527-13 identify a “data gap” as the lack or inability to obtain information required by the standards and practices of the rule despite good faith efforts by the Environmental Professional or the User.

Any data gaps resulting from the Phase I ESA described in this report are listed and discussed below.

Gap	Discussion
Deletions or Exceptions from Scope of Work Referenced in Section 1.4:	None
Weather-Related Restrictions to Site Reconnaissance:	None
Facility Access Restrictions to Site Reconnaissance:	None
Other Site Reconnaissance Restrictions:	None
Data Gaps from Environmental Records Review:	None
Data Gaps from Historical Records Review:	None
Data Gaps from Interviews:	None
Other Data Gaps:	None

7.3 CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of 5665 Plaza Drive, City of Cypress, County of Orange, California, the Property. Any exceptions to, or deletions from, this practice are described in the Data Gaps section of this report. This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the Property. No further assessment is warranted at this time.

8.0 NON-SCOPE CONSIDERATIONS

No ASTM E1527-13 non-scope services were performed as part of this Phase I ESA with the following exceptions:

8.1 LEAD-BASED PAINT

Concern for lead-based paint (LBP) is primarily related to residential structures. The EPA's Final Rule on Disclosure of Lead-Based Paint in Housing (40 CFR Part 745) defines LBP as paint or other surface coatings that contain lead equal to or in excess of 1.0 milligram per square centimeter or 0.5 percent by weight.

The risk of lead toxicity in LBP varies based upon the condition of the paint and the year of its application. The U.S. Department of Housing and Urban Development (HUD) has identified the following risk factors:

The risk of lead toxicity in LBP varies based upon the condition of the paint and the year of its application. The U.S. Department of Housing and Urban Development (HUD) has identified the following risk factors:

- The age of the dwelling as follows: maximum risk is from paint applied before 1950.
- There is severe risk from paint applied before 1960.
- There is moderate risk from deteriorated paint applied before 1970.
- There is slight risk from the paint that is intact but applied before 1977.
- The condition of the painted surfaces.
- The presence of children and certain types of households in the building.
- Previously reported cases of lead poisoning in the building or area.

Given the Property was constructed in circa 1990, the presence of LBP is considered unlikely.

8.2 ASBESTOS

Asbestos can be found in many applications, including sprayed-on or blanket-type insulation, pipe wraps, mastics, floor and ceiling tiles, wallboard, mortar, roofing materials, and a variety of other materials commonly used in construction. The greatest asbestos-related human health risks are associated with friable asbestos, which is ACM that can be reduced to powder by hand pressure. Friable asbestos can become airborne and inhaled, and has been associated with specific types of respiratory disease. The manufacturing and use of asbestos in most building products was curtailed during the late 1970s.

Stantec makes no warranty as to the possible existence or absence of inaccessible materials or to their evaluation with respect to asbestos content. Samples of suspect ACM should be collected for laboratory analysis of asbestos prior to any renovation or building demolition, in order to determine the need for compliance with EPA National Emission Standard for Hazardous Air Pollutants (NESHAP) regulations.

Golder collected 27 bulk samples of suspect ACMs during their 2002 Phase I ESA. The analytical results indicated the presence of asbestos in the roof penetration mastic on the building. Golder recommended that an Operations and Maintenance Plan be developed for the building.

Stantec recommends conducting a comprehensive, pre-demolition ACM survey in accordance with the sampling protocol of the Asbestos Hazard Emergency Response Act (AHERA) prior to any activities with the potential to disturb building materials to determine whether ACM are present. Further, in the event ACM is detected, Stantec recommends proper removal and disposal of the materials identified prior to any activities with the potential to disturb them.

8.3 RADON

Radon is a colorless, tasteless radioactive gas with an EPA-specified action level of 4.0 PicoCuries per liter of air (pCi/L) for residential properties. Radon gas has a very short half-life of 3.8 days. The health risk potential of radon is primarily associated with its rate of accumulation within 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. Large, adequately ventilated rooms generally present limited risk for radon exposure. The radon concentrations in buildings and homes depend on many factors, including soil types, temperature, barometric pressure, and building construction (EPA, 1993).

Stantec reviewed regional data published by the EPA on average indoor radon concentrations in the vicinity of the Property (http://www.epa.gov/radon/zonemap.html).

EPA Radon Zones (w/Average Measured Indoor Radon concentrations)		
Zone 1 – High (>4.0 pCi/L)	Zone 2 – Moderate (2 to 4 pCi/L)	Zone 3 – Low (<2 pCi/L)

The Property is located in an area designated as EPA Radon Zone Level 3 with a predicted average indoor screening level less than 2 pCi/L. According to the EDR report, one of the 50 tests performed in zip code 90630 (the zip code of the Property) were above 4 pCi/L and the average first floor radon concentration in Orange County is 0.763 pCi/L. The information regarding this determination is contained in the EDR report attached as Appendix D. Based on this information, the Property lies within an area of low radon risk, radon is unlikely to represent an environmental concern at the Property, and no further assessment is recommended.

8.4 FLOOD ZONES

According to the Physical Setting summary portion of the EDR report, the Property is located within a 0.2% Annual Chance Flood Hazard plain.

9.0 REFERENCES

American Society for Testing and Materials, 2015, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, Designation E 2600-15.

American Society for Testing and Materials, 2013, Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process, Designation: E 1527-13.

Department of Toxic Substances and Control, 2021, website http://www.envirostor.dtsc.ca.gov/public/

Department of Water Resources (DWR), 2004, Groundwater Bulletin 118, updated February 27.

Environmental Data Resources, Inc. (EDR), EDR Radius Map with Geocheck, Inquiry Number 6586541.2s, dated July 21, 2021.

_____, Certified Sanborn Map Report, Inquiry Number 6586541.3, dated July 21, 2021.

_____, Historical Topographic Map Report, Inquiry Number 6586541.4, dated July 21, 2021.

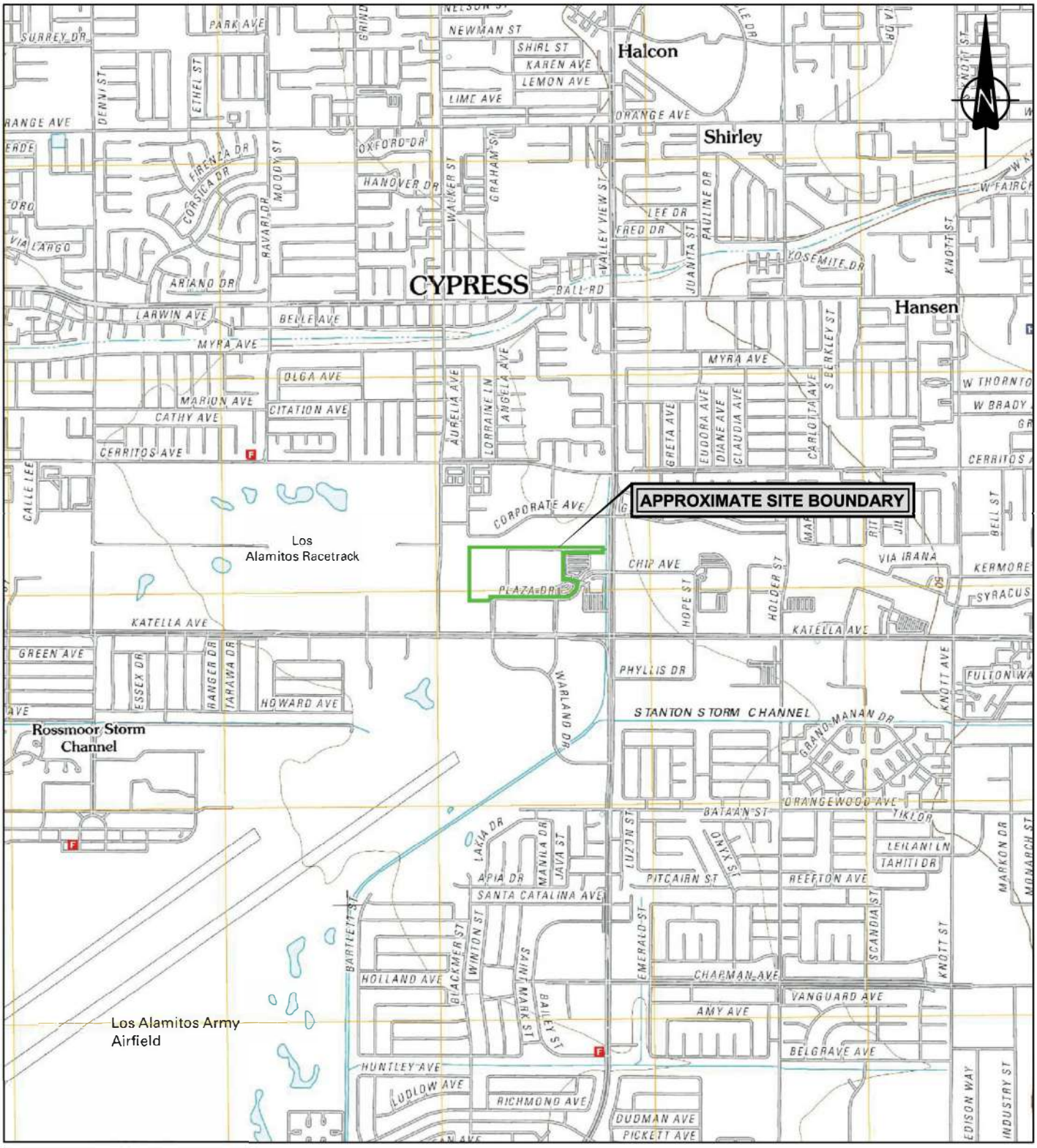
_____, Aerial Photo Decade Package, Inquiry Number 6586541.12, dated July 21, 2021.

_____, City Directory Abstract, Inquiry Number 6586541.5, dated July 24, 2021.

State Water Resource Control Board's Geotracker, 2021, website https://geotracker.waterboards.ca.gov/

United States Geological Survey (USGS), 2012, Los Alamitos Quadrangle, 7.5 Minute Topographic Map, Scale 1 inch = 2,400 feet

FIGURES



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PROPERTY LOCATION MAP

PHASE I ENVIRONMENTAL SITE ASSESSMENT

5665 PLAZA DRIVE, CYPRESS, CALIFORNIA 90630

Client:	GNAP DEVELOPMENT LLC

Project No.:	185805273
Scale:	AS SHOWN
Date:	21/07/28
Dwn. By:	CD DM SC2021070031
App'd By:	KE

Fig. No.: 1

Stantec

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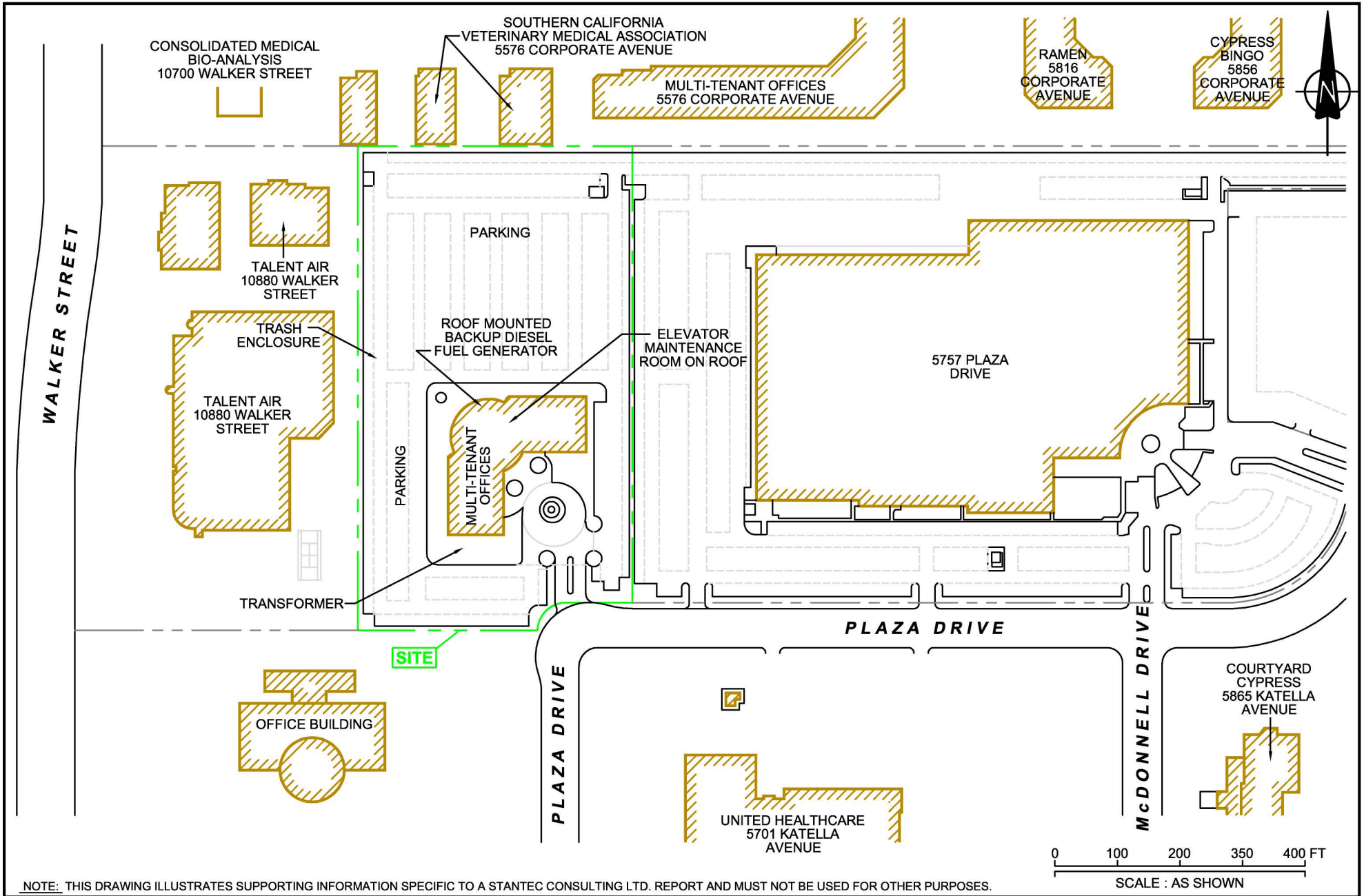

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PROPERTY DETAILS

PHASE I ENVIRONMENTAL SITE ASSESSMENT

5665 PLAZA DRIVE, CYPRESS, CALIFORNIA 90630

Client: GNAP DEVELOPMENT LLC

Project No.:	185805273
Scale:	AS SHOWN
Date:	21/07/28
Dwn. By:	CD DM SC2021070032
App'd By:	KE

Fig. No.: 2

Stantec

Appendix A PHOTOGRAPHS OF THE PROPERTY AND VICINITY

Photo #1 View of the 5665 Plaza Drive building exterior.

Photo #2 View of the pad-mounted transformer located in the southwestern corner of the building exterior.

Photo #3 View of the first-floor lobby of the 5665 Plaza Drive building.

Photo #4 View of the backup diesel fuel generator located on the roof of the 5665 Plaza Drive building.

Photo #5 View of the roof mounted chiller on the 5665 Plaza Drive building.

Photo #6 View of the elevator maintenance room on the roof of the 5665 Plaza Drive building.

Photo #7 View of the trash enclosure located on the western perimeter of the 5665 Plaza Drive building.

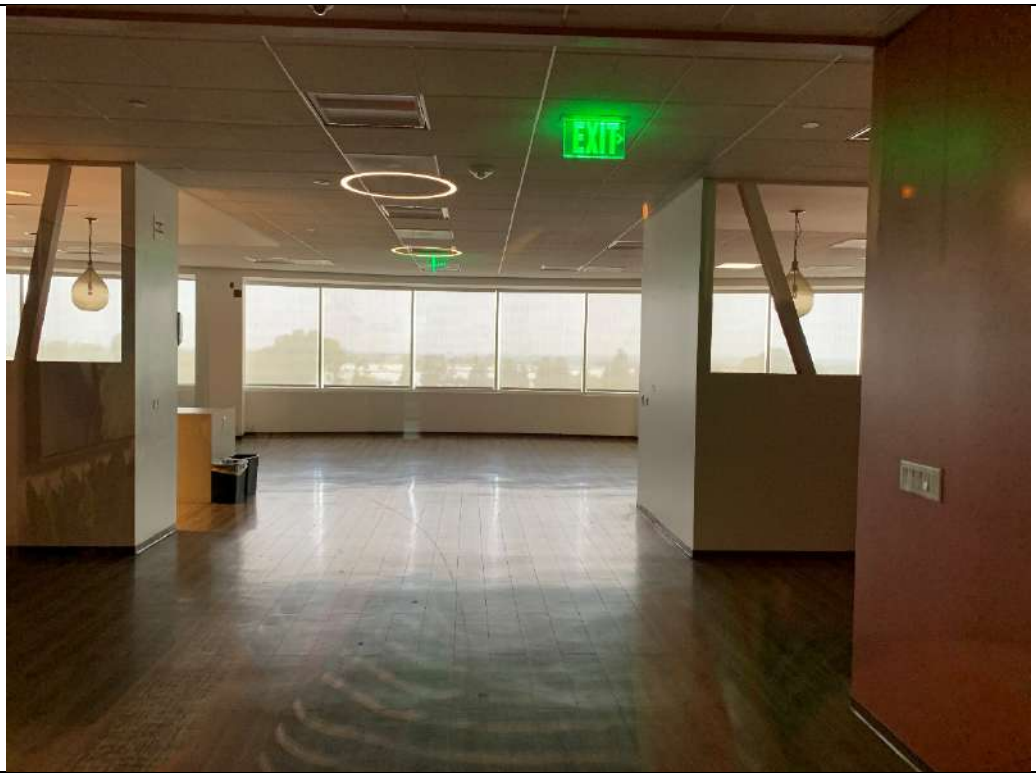


Photo #8 View of a vacant office suite in the 5665 Plaza Drive building.

Appendix B STANTEC RESUMES

Alicia Jansen CAC, LRCIA

Environmental Scientist
18 years of experience

Alicia is an Associate Scientist with over fifteen years of experience in Phase I and II Environmental Assessments, with strong emphasis in water quality and environmental research. Alicia has managed the preparation of environmental documents, training programs, and environmental compliance during large scale environmental monitoring projects. Alicia's environmental consulting experience includes performing asbestos and lead-based paint surveys, oversight of contractors during asbestos abatement, hazardous materials surveys, and Phase I Environmental Site Assessments (ESAs) in accordance with the practices identified in the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation E 1527-13 and the Standard Practice for Environmental Site Assessments for Forestland or Rural Property, ASTM Designation E 2247-16.

EDUCATION

BA, Environmental Studies, San Jose State University, San Jose, California, 2004

CERTIFICATIONS & TRAINING

Residential Measurement Provider, 108212, National Radon Proficiency Program, Anaheim, California, 2015

REGISTRATIONS

Certified Asbestos Consultant #CAC #15-5379, State of California Division of Occupational Safety and Health

Lead Inspector/Risk Assessor #LRC-00005363, California Department of Public Health

MEMBERSHIPS

Member, Groundwater Resources Association of California

PROJECT EXPERIENCE

HEALTH, SAFETY & INDUSTRIAL HYGIENE

Confidential Health Care Company, Asbestos, Lead-Based Paint, and Hazardous Materials Survey | Northern California | Staff

Alicia assisted with site inspections for asbestos, lead-based paint, and hazardous materials at multiple occupied hospitals and office spaces. The scope of work involved sample collection for asbestos and lead-based paint in addition to the quantification of universal wastes (PCBs, mercury containing equipment, refrigerants, etc.) that would require special handling and disposal. She assisted with the preparation of reports summarizing findings.

State of California General Services, Asbestos, Lead-Based Paint, and Hazardous Materials Survey | Northern California | 2009 | Technical Support

Alicia assisted with site inspections for asbestos, lead-based paint, and hazardous materials at multiple communication towers in remote areas. The scope of work involved sample collection for asbestos and lead-based paint in addition to the quantification of universal wastes (PCBs, mercury containing equipment, refrigerants, etc.) that would require special handling and disposal. She assisted with the preparation of reports summarizing findings. Role: Technical Support | Cost: Unknown | Dates involved: 10/2009-10/2009

Indoor Air Quality Assessments* | San Jose, California | 2002-2005 | Staff

Alicia performed site inspections, interviews, and collected air samples to be analyzed for various air pollutants and molds including formaldehyde, penicillium, aspergillus, cladosporium, and stachybotry. She prepared reports summarizing findings and made recommendations.

Veteran's Administration of Puget Sound, Asbestos and Lead-Based Paint Survey | Seattle, Washington | 2009 | Project Scientist

Alicia served as the Project Scientist responsible for hazardous building material assessments, specifically asbestos and lead-based paint. These services were required as part of the pre-design tasks for this project. Over 300 samples were collected over the span of four days culminating in a final hazardous building materials report to be incorporated into the facility design as well as demolition activities once the construction phase of the project commences.

Interim Remedial Action, Indoor Air Sampling, and Sub-Slab Soil Gas Sampling | Sunnyvale, California | 2004–2014 | Task Manager and Field Support

Alicia conducted an indoor air sampling survey using air sampling pumps, dosimeter badges, and flame ionization detector (FID) during a sump excavation. She performs semi-annual sub-slab soil vapor sampling and indoor air quality surveys using summa canisters. She assists with the preparation and submittal of reports summarizing the findings and provides recommendations to the local regulatory agency. Role: Indoor Air Sampling Survey | Cost: Unknown | Dates involved: 09/2004-09/2014

** denotes projects completed with other firms*

Lead Dust Assessment and Abatement Oversight | Fremont, California | 2009 | Technical Support

Alicia assisted with the evaluation of lead dust in an industrial facility. A total of 307 dust wipe samples were collected in order to evaluate the potential presence of lead dust throughout the two-story, 500,000 square foot manufacturing building. Role: Technical Support | Cost: Unknown | Dates involved: 01/2009-03/2009

Former Tesoro Coke Facility, Asbestos, Lead-Based Paint Survey | Pittsburg, California | Technical Support

Alicia assisted with an asbestos and lead paint survey of 20 structures at the facility ultimately scheduled for demolition. More than 200 samples were collected over the span of two days. She prepared a report for demolition while also providing the information needed for worker safety during demolition activities at the facility. Role: Technical Support | Cost: Unknown | Dates involved: 04/2009-04/2009

State of California General Services, Asbestos and Lead-Based Paint Survey | Southern California | 2014-2019 | Certified Asbestos Consultant

Alicia conducted with site inspections for asbestos and lead-based paint at multiple bridges, maintenance stations, and roadways throughout Southern California. The scope of work involved sample collection for asbestos and lead-based paint that would require special handling and disposal. She assisted with the review and approval of reports summarizing findings. Role: Certified Asbestos Consultant | Cost: Unknown | Dates involved: 9/2014-10/2019

PERMITTING, COMPLIANCE, AUDITING

Tesoro Refinery, Initial Study* | Benicia, California | 2005 | Staff

Alicia assisted with the background research and preparation of applicant-prepared initial study for the upgrade of a refinery.

Transmission Line Upgrade* | San Mateo to San Francisco, California | 2005 | Environmental Research and Compliance Staff

Alicia supported the environmental compliance program for the construction of a 27-mile 230 kV underground and overhead transmission line. She assisted with the preparation and submittal of variance requests, extra work space requests, and daily and weekly reports for submittal to the California Public Utilities Commission. She also conducted research and assisted with training and report preparation.

REMEDIAL INVESTIGATIONS & ASSESSMENTS

California Department of Transportation Portfolio | Multiple Sites, Northern California and Southern California, California | 2008-2019 | Task Lead Manager

Alicia prepared quarterly groundwater monitoring reports, subsurface investigation reports, sensitive receptor surveys, and preferential pathway studies for various California Department of Transportation locations throughout Northern California. She assisted with the utility locating, work plan preparation, field coordination, archived data onto the State Water Resource Control Board's (RWQCB) Geotracker electronic filing system. Alicia currently conducts site inspections for asbestos, lead-based paint, and hazardous materials for bridges, salt barns, and maintenance buildings associated with California Department of Transportation locations throughout Southern California. The scope of work involves sample collection for asbestos and lead-based paint that would require special handling and disposal. She assists with the preparation of reports summarizing findings. Role: Task Lead Manager | Cost: Unknown | Dates involved: 06/2008-02/2019

Soil Gas Sampling and Human Health Risk Assessment | San Jose, California | 2014 | Project Lead

Alicia performed a soil vapor survey in conformance with the DTSC Advisory Active Soil Gas Investigations, using soil vapor sampling devices and a mobile laboratory for onsite chemical analysis. She also assisted with the report preparation summarizing the findings and providing recommendations for further assessment.

Confidential Client, Phase I Environmental Site Assessments | Multiple Sites, California, Arizona, New Mexico, Texas, Virginia | Task Manager

Alicia performs Phase I Environmental Site Assessments for multiple confidential clients in accordance with the practices identified in the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation E 1527-13 and Standard Practice for Environmental Site Assessments for Forestland or Rural Property, ASTM Designation E 2247-16 to achieve compliance with requirements of the "All Appropriate Inquiries" rule required to obtain protection from liability under the federal Comprehensive Environmental Response, Cleanup and Liability Act (CERCLA). Previous sites include large industrial warehouses, multi-tenant commercial buildings, large lots of vacant land, and residential properties. She reviews topographic maps, Sanborn Fire Insurance Maps, and files at local regulatory agencies. She interviews present and former property owners and performed site and adjacent property reconnaissance. She prepares reports summarizing the findings and provides recommendations for further assessment if applicable. Cost: 3-8000 per report

Goodyear Portfolio | Northern California and Hawaii | 2005–present | Project Lead

Alicia performed Phase I Environmental Site Assessments (ESA) and Phase II Site Assessments for various Goodyear Tire & Rubber Company locations throughout California and Hawaii. She assisted with the installation of monitoring wells and exploratory borings; underground storage tank removals; site restoration; product removal with passive recovery system; archived data onto the State Water Resource Control Board's Geotracker electronic filing system; and assisted with the preparation of quarterly groundwater monitoring reports, sensitive receptor surveys, site conceptual models, and subsurface investigation reports. Approximately 250 Sites • Cost: $8,000 per site.

Kevin Miskin PE

Principal

Kevin is a registered professional engineer with 20 years of experience in the environmental and geotechnical engineering industry. His strong background in environmental engineering, civil engineering, and construction management has provided the expertise and experience to manage all aspects of soil and groundwater assessment and remediation projects in accordance with local, state, and Federal regulations. Kevin has managed complex, large-scale soil and groundwater remediation projects; has maintained major national accounts; has provided technical support to the legal community; environmental due diligence and risk evaluations for corporate mergers, as well as commercial and industrial facilities and portfolios; and has participated in business development activities. He has performed and managed site characterization assessments, site remediation projects, and geotechnical soil investigations and landfill design throughout the US and Mexico.

EDUCATION

BS, Civil Engineering, Brigham Young University, Provo, Utah, 1987

MS, Civil Engineering, Purdue University, Lafayette, Indiana, 1989

REGISTRATIONS

Professional Engineer #48458, State of California

Professional Engineer #12396, State of Nevada

Professional Engineer #28953, State of Arizona

PROFESSIONAL ASSOCIATIONS

8-Hour OSHA Supervisor's Training, Occupational Safety & Health Administration

8-Hour OSHA Health and Safety Annual Refresher Course, Occupational Safety & Health Administration

40-Hour OSHA Health and Safety Training (29 CFR 1910.120), Occupational Safety & Health Administration

PROJECT EXPERIENCE

Crude Oil Pipeline Spill Cleanup

Kevin managed and provided technical guidance on a crude oil pipeline spill in which more than 3,300 barrels of oil discharged through 1.5 miles of remote canyon land and into a drinking water reservoir. Cleanup was conducted under the guidance and direction of the U.S. EPA, U.S. Army Corps of Engineers, California Department of Water Resources, California Department of Fish and Game, USDA Forest Service, etc. The project entailed remote oil recovery in canyons using coffer dams, helicopters and ground crews, recovery of surface oil with skimmers and sorbents, and recovery of oil from the bottom of the lake using an innovative method of sparging bottom sediments to release oil micelles to the surface where they were recovered with booms and sorbents.

Chemicals & Polymers

Two Former Chemical Plants, Environmental Site Assessments and Remediation, Vernon, California (Project Manager)

At the first site, Mr. Miskin managed and provided oversight of the decontamination, demolition, and remediation of a chemical manufacturing facility and adjacent railroad property contaminated with radionuclides (Th-232 and U-238), chlorinated solvents, organo-chlorine pesticides, petroleum hydrocarbons, heavy metals, and acid/caustics. The final site survey for radioactive materials was performed in accordance with NUREG-1575 (MARSSIM). The site was successfully remediated and closed by the City of Vernon and California Environmental Protection Agency. The site was successfully remediated and is currently being redeveloped.

* denotes projects completed with other firms

Kevin Miskin PE

Principal

For the second site, Mr. Miskin managed and designed remedial investigations, feasibility studies, risk assessments, and remedial actions for an old industrial chemical plant including 11 acres of unlined settling ponds and burn dumps containing elevated radionuclide contamination, chlorinated solvents (PCE, TCE and DCE), organo-chlorine pesticides, heavy metals, polynuclear aromatic hydrocarbons, and pH at a chemical plant. His responsibilities included agency negotiations in which risk-based cleanup goals—along with administrative and mechanical (capping) actions—were implemented to reduce potential remedial costs by several million dollars.

Dams & Levees

Dam Erosion Control System, West Lafayette, Indiana

Kevin designed an erosion control system for several gabion check dams to prevent undermining of houses along a 1.5-mile ravine discharging to the Wabash River.

Grantsville Dam Construction, Grantsville, California

Kevin managed quality control testing for the construction of the Grantsville Dam.

Box Lake Dam Construction, Payson, Utah

Kevin managed and inspected the construction of the Box Lake Dam.

Due Diligence Assessments

Due Diligence - Mergers and Acquisitions for Major Oil Companies

Kevin performed environmental due diligence and risk/exposure evaluations for corporate mergers and asset acquisitions for major oil companies, including the development of databases for ranking and evaluating potential environmental risks and liabilities for acquisitions of more than 2,000 facilities.

Environmental Litigation, Arbitration and Mediation support

Litigation Support - Former Bulk Terminal Remediation, Los Angeles, California

Kevin provided technical expertise in settlement negotiations for a major oil company with respect to remediation of an old bulk terminal in the Los Angeles area.

Litigation Support - Major Oil Companies

Kevin provided technical analysis in evaluating environmental damages claims for single and multi-party lawsuits in several lawsuits and participated in settlement negotiations on behalf of major oil companies.

Litigation Support - Refinery Cleanup, Los Angeles, California

Kevin provided technical support representing a group of insurance plaintiffs on a multi-million-dollar soil and groundwater cleanup of a refinery.

Technical Support/Representation - Superfund Contamination

Kevin provided technical support and representation in negotiating allocation of financial responsibility on behalf of client for MTBE contamination in Superfund wells and treatment system.

Litigation Support - Petroleum-Related Contamination

Kevin provided professional consulting for litigation which involved lateral migration of petroleum-related contamination.

Litigation Support - Chlorinated Solvent Release from Dry Cleaner, Ventura County, California

Kevin provided technical support for the plaintiff on a multi-party suit for chlorinated solvent release from a dry cleaner in Ventura County. The process involved contaminant transport mechanisms and plume using a piezocone to locate thin, confined water-bearing units followed by groundwater sampling using a hydropunch sampler advanced with the cone rig.

Remedial Investigation - Air Force Base Landfill

Kevin served as second-party reviewer and technical advisor for the evaluation of a remedial investigation of an old landfill at an Air Force base.

San Gabriel Valley Superfund Site, Remediation & Closure of Multiple Source Areas, Industry, California

Mr. Miskin provided technical support for an aerospace contractor on the allocation of responsibility for the regional chlorinated solvent plumes associated with the San Gabriel Valley Superfund Site mediation process.

* denotes projects completed with other firms

Kevin Miskin PE

Principal

Environmental Site Remediation

Remediation - California Institution for Men, Chino, California

Kevin investigated and provided remedial recommendations for lagoon erosion at the California Institution for Men.

Remediation of Various Petroleum Facilities

Kevin managed national petroleum accounts and directed vadose zone and groundwater assessments and remediation of more than 100 petroleum facilities involving petroleum hydrocarbons ranging from gasoline to crude oil, VOCs (chlorinated and non-chlorinated), fuel oxygenates (MTBE, DIPE, ETBE, TAME), and heavy metals. He designed and implemented various remedial alternatives including excavation (shored and unshored, as well as dewatering systems), above and below grade soil vapor extraction, in-situ bioremediation, landfarming, pump and treat, chemical oxidation, ozone sparging, air sparging, dual phase extraction, and monitored natural attenuation.

Remediation of an Aboveground Tank Farm and Railroad Spur, Industry, California

Kevin managed, designed, and directed installation of an in-situ bioventing system for mitigating elevated levels of styrene, ethylbenzene, and waste oil below an aboveground tank farm and railroad spur at a plastics manufacturer.

Remediation of DNAPL, El Centro, California

Kevin managed remedial investigations, risk assessments, feasibility studies, and remediation of DNAPL in a tight clay formation. Remediation was ultimately performed using electrical resistive heating (ERH) to achieve remediation goals.

Remediation of a Former Landfill/Burn Dump, Riverside, California

Kevin managed and coordinated multi-party CERCLA remedial investigations, feasibility studies, and remedial action of an old landfill/burn dump in an industrial sector of downtown Riverside, including rail yards, foundries, cold storage, and burn dump facilities. He implemented multiple remedial actions to recycle all landfill materials for use in the 50-acre redevelopment project, including landfill gas and material characterization, excavation and segregation of landfill materials, aboveground bioremediation of 10,000 tons of petroleum hydrocarbon-contaminated landfill materials, and chemical stabilization of 13,000 tons of heavy metal (lead and copper) impacted landfill materials.

Remediation of a Former Aerospace Manufacturing Facility

Kevin managed and performed remedial investigations, feasibility studies (ISCO, ERH, MNA), and risk-based remedial actions for a former aerospace manufacturing facility located in the Puente Valley Operable Unit in the San Gabriel Valley Groundwater Superfund Site. Remediation involved natural attenuation of VOCs (primarily PCE) in groundwater, soil vapor extraction, and pattern drilling to mitigate chlorinated and petroleum hydrocarbons. Risk assessments and vapor intrusion studies were performed as part of remedial actions. Remediation was recently completed to the satisfaction of the Los Angeles Regional Water Quality Control Board and is in the process of closure.

Remedial Groundwater Investigations and Feasibility Studies at a Multi-RP Superfund Site, Nebraska

Kevin managed remedial groundwater investigations and feasibility studies at a Nebraska multi-RP superfund site. Activities included groundwater fate and transport modeling, design and implementation of large scale in-situ chemical oxidation (ISCO) pilot study using sodium permanganate to treat TCE groundwater plume, and implementation of monitored natural attenuation as the interim remedy.

* denotes projects completed with other firms

Kevin Miskin PE

Principal

Remediation of a Chemical Plant, Los Angeles, California

Kevin managed and designed remedial investigations, feasibility studies, risk assessments, and remedial actions for an old industrial chemical plant including 11 acres of unlined settling ponds and burn dumps containing elevated radionuclide contamination, chlorinated solvents (PCE, TCE and DCE), organo-chlorine pesticides, heavy metals, polynuclear aromatic hydrocarbons, and pH at a chemical plant. Kevin's responsibilities included agency negotiations in which risk-based cleanup goals—along with administrative and mechanical (capping) actions—were implemented to reduce potential remedial costs by several million dollars.

Remediation of a Chemical Manufacturing Facility, Los Angeles, California

Kevin managed and provided oversight of the decontamination, demolition, and remediation of a chemical manufacturing facility and adjacent railroad property contaminated with radionuclides (Th-232 and U-238), chlorinated solvents, organo-chlorine pesticides, petroleum hydrocarbons, heavy metals, and acid/caustics. The final site survey for radioactive materials was performed in accordance with NUREG-1575 (MARSSIM). The site was successfully remediated and closed by the City of Vernon and California Environmental Protection Agency. The site was successfully remediated and is currently being redeveloped.

Remedial Investigation - Industrial Site and Railway Line, Los Angeles, California

Kevin managed and directed remedial investigation, design, and remedy implementation of a chlorinated volatile organic compound (VOC), petroleum hydrocarbon, PCB-contaminated industrial site (plastics injection molding and aluminum zinc die casting) and railway line in the greater Los Angeles area. Sixty-five thousand tons of PCB-impacted soil were excavated, characterized, and transported off site in accordance with California and TSCA regulations. Chlorinated VOCs in soil and groundwater were mitigated using in-situ soil vapor extraction and natural attenuation. Uniquely designed risk-based remedial actions were implemented on the site, as well as the railroad property, and incorporated both administrative and engineered remedies that resulted in the successful mitigation of health risks. The property has since been redeveloped for commercial use.

CERCLA Remedial Investigations and Feasibility Studies, Northern Arizona

Kevin managed and directed CERCLA remedial investigations and feasibility studies for an old open dump potentially contaminated with uranium mill tailings and heavy metals in northern Arizona under the direction and in association with the US EPA, Department of Interior, Department of Energy, and local Native American tribes.

San Fernando Valley Groundwater Superfund Site, San Fernando Valley, California

Kevin managed remedial investigations, feasibility studies, risk assessment, and implementation of remedial actions at a PRP site in the San Fernando Valley Groundwater Superfund Site involving emerging chemicals, chlorinated solvents, and hexavalent chromium. Chlorinated VOCs and 1.4-dioxane were mitigated by a combination of removal action, vapor extraction, and monitored natural attenuation. Hexavalent chromium in soil and groundwater was treated through a combined program of excavation and in-situ chemical reduction using calcium polysulfide and enhanced biological reduction using emulsified oil and fructose.

Palmdale Plant 57 UST Removal and Investigation, Palmdale, California (Project Manager)

Kevin conducted leak detection investigations (subsurface soil sampling) and provided environmental oversight for removal of large jet fuel underground storage tanks at the Plant 57 tank farm. His duties included drilling, sampling, and reporting.

Naval Weapons Center Whirl Tower PCB and Dioxin Investigation, El Centro, California (Project Manager)

Kevin conducted a site Investigation following the guidelines promulgated in Toxic Substances Control Act to delineate PCB and dioxin contamination on the old Whirl Tower that resulted from a fire in which PCB oils burned in the Whirl Tower motor. The investigation included statistical sampling of various components of the Whirl Tower and included wipe samples, concrete cores and soil samples. The investigation was conducted to support demolition activities.

Geotechnical Analyses

Bridge Geotechnical Investigation, Lake Elsinore, California

Kevin performed a geotechnical investigation and pile foundation analyses for six bridges.

* denotes projects completed with other firms

Kevin Miskin PE

Principal

Waterline Geotechnical Investigation

Kevin performed a geotechnical investigation for more than 75 miles of waterline for municipal water districts in Riverside and San Bernardino, California.

Civic Center Geotechnical Investigation*, Moreno Valley, California

Kevin performed geotechnical investigation and design for a proposed 64-acre civic center. Services included stabilization of highly collapsible soils for the city hall, a 200-foot-high observation tower, and other structures including office buildings with underground parking.

Methane Collection System, Olinda, California

Kevin provided design recommendations for improvements to a methane collection system at an LFG power plant. Recommendations included modifications to methane extraction system to increase gas flow and power output, optimization of LFG piping network, and methane extraction design improvements for future power plant expansion.

Healthcare

CONFIDENTIAL: Former NASA Industrial Facility, Hospital and MOB Redevelopment, Downey, California

Mr. Miskin participated on the team that conducted a combined environmental and geotechnical evaluation of a former NASA industrial plant that was to be demolished and redeveloped as a hospital and medical office building complex. The NASA facility was utilized for Gemini, Apollo, and Space Shuttle testing, and included an airfield, hazardous material storage, and cryogenic and physical testing areas. The project involved historical research to locate former hazardous material usage and storage areas; drilling and sampling of soil, soil vapor, and groundwater to evaluate impacts; combining the geotechnical and environmental sampling for efficiency and cost savings; assessment and health risk (PEA) reports for evaluation of worker and site user health risk and for submission to the California DTSC; asbestos and hazardous material abatement reports for demolition purposes; geotechnical reports for site grading, foundation, pile, and liner design, and backfill requirements; construction oversight; and participation with client legal counsel in negotiations with state regulatory agencies. Remedial oversight was also conducted, and we coordinated with the client, contractor, adjacent landowners, the City, and regulatory agencies.

Landfill Services

Inert Debris Landfill, Orange County, California

Kevin provided technical support in characterization and closure evaluation for the development of an inert debris landfill.

Central Avenue Landfill, Phoenix, California

Kevin provided design and technical review of landfill cover and closure of the Central Avenue Landfill.

Mohave County Cerbat Landfill, Kingman, Arizona

Kevin provided design and construction oversight of lined septage evaporation ponds at Mohave County Cerbat Landfill.

Carson City Landfill, Carson City, Nevada

Kevin provided technical design and management of expansion, evaluation, and redesign of the Carson City Landfill.

Tuba City Dump Site - Landfill Closure Activities, Tuba City, Arizona

Kevin provided management and oversight of landfill closure activities following the CERCLA RI/FS process at the Tuba City Dump site.

Multiple-Cell Municipal Landfill, Kingman, Arizona

Kevin provided technical oversight of design, construction quality assurance, O&M, and closure of a multiple-cell municipal landfill. Landfill cells were designed and constructed with geosynthetic clay liners, geocomposite drainage system, high density polyethylene liner, sand filter, and leachate collection system.

Longsdon Pit South Landfill, Garden Grove, California

Kevin was involved in the management, construction, and operations and maintenance of a landfill gas collection system and hotel/restaurant gas monitoring systems at the Longsdon Pit South landfill.

Litigation Support and Expert Testimony

Expert Witness - Mold Intrusion*

Kevin provided expert witness testimony on mold intrusion for a large commercial development.

Expert Witness - CERCLA Recovery of Damages, Riverside, California

Kevin served as an expert witness for CERCLA recovery of damages in remediation of an old burn dump in an industrial sector in downtown Riverside.

* denotes projects completed with other firms

Kevin Miskin PE

Principal

Mixed-Use

Port of San Diego Rohr Facility, Chula Vista, California

Mr. Miskin completed a detailed subsurface assessment of the Rohr facility. The intent of the assessment was to evaluate the 40-acre former aircraft part manufacturing facility for acquisition by the Port of San Diego for redevelopment into a business park and entertainment complex. The assessment identified the presence of soil, soil vapor, and groundwater impacts by petroleum hydrocarbons, VOCs, heavy metals, PCBs, and semi-volatile organic compounds. He utilized many sampling techniques to assess the limits and concentrations of contaminants in the subsurface. Ultimately, the team was able to develop a cost estimate for potential remedial action cost associated to corrective action to allow redevelopment.

Seismic Engineering

Lake Gregory Drive Seismic Evaluation, Lake Gregory, California

Kevin performed seismic evaluation, analysis, and design of the 20-foot-high Lake Gregory Drive cribwall and slope.

Transportation Planning

Caltrans ADL Investigation, Hinkley, California (Project Manager)

Kevin managed an ADL investigation for the expansion of 21 kilometers of Route 58. The scope of the investigation included the collection of 1,100 samples from 276 borings and analysis for total lead, soluble lead by Cal WET, TCLP and Cal WET DI, as well as VOCs. The data was statistically analyzed to optimize reuse on site and included designation of areas as Y-1, Y-2, and contractor release materials along the right of way.

Caltrans Bridge Expansion and Retrofits, County of Riverside and San Bernardino, California (Project Manager)

Kevin managed asbestos surveys, lead based paint surveys, and environmental investigations for various chemicals of concern in soil and groundwater for bridge construction, expansion, and retrofitting on freeways and highways throughout San Bernardino and Riverside Counties. Samples of piping materials and bridge shims were collected to determine the existence of asbestos-containing materials and the presence of lead. In addition, soil samples were collected from borings using hand augers, Geoprobe®, hollow stem auger, and rotary wash to evaluate the presence of lead, petroleum hydrocarbons, VOCs, and PCBs.

Caltrans Initial Site Assessment and Naturally Occurring Asbestos Survey, Wrightwood, California (Project Manager)

As Project Manager, Kevin managed and performed an ISA for a 3.2-kilometers-long expansion project of Route 2 through Wrightwood. In addition to evaluating environmental concerns, an NOA survey was performed to assess the asbestos content in schist formations along the right of way.
The NOA survey included drilling and sampling of schist formations along the right of way to map areas where NOA might be encountered or disturbed in the work zone.

Caltrans Initial Site Assessment, Highway 58, Hinkley, California (Project Manager)

Kevin managed and directed the development of an ISA for 34 kilometers of Highway 58. The ISA considered four highway alignment alternatives that included a study width of 3.2 kilometers. The ISA addressed numerous environmental concerns including, USTs, ASTs, water treatment ponds, illegal disposal sites, electrical sub stations, and wetlands.

Caltrans Aerially Deposited Lead Survey, Beaumont, California (Project Manager)

Kevin managed and designed an ADL survey along 28 kilometers the I-10 freeway to support freeway expansion. The work required drilling 336 borings and sampling at multiple depths in the proposed work zone. A total of 660 samples were collected and analyzed for total lead, with additional analysis of select samples for soluble lead by TCLP and Cal WET extractions, as well as Cal WET deioized water. He performed a statistical evaluation and made recommendations in a final report for designated areas of Y-1, Y-2, and contractor release material.

* denotes projects completed with other firms

Brian Viggiano PG

Senior Geologist

Brian is a California Professional Geologist with approximately ten years of professional experience in environmental and geotechnical fields. He has performed and managed numerous Environmental Site Assessments (ESAs) for real estate transfers, bank loans, and redevelopment projects. Related sites have included former and active retail petroleum stations, former oil fields, dry cleaners, agricultural sites, plating facilities, landfills, chemical plants and other industrial facilities. He has also performed site assessment, investigation, characterization, and remedy of soil and groundwater contamination utilizing established and innovative technologies including single and multi-phase extraction, in-situ chemical oxidation, pump and treat, electrical resistance heating, and chemical fixation. Brian has also performed geotechnical investigations at proposed school developments and for academic purposes. Projects have included evaluation of active and potentially active faults, seismic evaluations, geophysical surveys, and evaluation of remotely sensed data. His versatility and range of environmental and geotechnical skills have been utilized in all stages of investigation including planning, implementation, site reconnaissance, mapping, surveys, and site inspections during construction, assessment or cleanup to final drafting, illustration, and report preparation.

EDUCATION

BS, Geology, University of California, Los Angeles, Los Angeles, California, 2000

Geology, Graduate Studies, University of California, Los Angeles, Los Angeles, California, 2002

40-Hour HAZWOPER Training, OSHA, Los Angeles, California, 2001

8-Hour HAZWOPER Supervisor Training, OSHA, Los Angeles, California, 2006

8-Hour Annual Update Certification, OSHA, Los Angeles, California, 2011

REGISTRATIONS

Professional Geologist #8386, State of California

MEMBERSHIPS

Member, Geological Society of America

PROJECT EXPERIENCE

Environmental Site Remediation

Chemical Plant Decommissioning and Remediation, Vernon, California (Field Geologist/ Site Superintendent)

Brian worked as the Field Geologist/ Site Superintendent during assessment, below grade demolition and remediation of an historical Chemical plant located in the City of Vernon, California. Assessment activities consisted of evaluating historical process areas, below grade structures and settling ponds impacted by high levels of pesticides, heavy metals and radionuclides (Thorium-232 and Uranium-238). Remediation activities consisted of excavation and off-site disposal of radiological and chemically impacted waste, corrective grading and capping of residual wastes. The Project value was $8,000,000.00.

Former Open Dump Site, Hopi and Navajo Tribal Lands, Arizona (Field Geologist)

Brian worked as the field geologist at a former open dump site located on Hopi and Navajo Tribal lands. The open dump was reported to have been the source of elevated concentrations of uranium and other radionuclides in groundwater at the site and vicinity. Brian conducted a collaborative multi-week field study with the U.S. Geological Survey (USGS) to assess site geological relationships, potential groundwater flow paths and plume limits, and potential for spring and drinking water resources to be impacted by leachate from the site. Field work included rock coring, installation of groundwater monitor wells, field mapping, and stratigraphic analysis. Subsequent data analysis included review of comprehensive legacy data, evaluation of landfill leachate tracers (e.g., tritium) and whole rock and leachability data. The investigation is ongoing and is being conducted collaboratively with the USGS,

** denotes projects completed with other firms*

Department of Interior, and Environmental Protection Agency.

Garden Grove Redevelopment Project, Garden Grove, California (Project Geologist)
Brian implemented remedial investigation of petroleum-impacted soil and groundwater. His investigation consisted of soil sampling, installation, and subsequent development and sampling of groundwater monitoring wells. He worked with others to design and implement a complex dual-phase extraction system that included the installation of 45 extraction wells and two soil vapor extraction systems. He completed work under the oversight of the State of California.

Chlorinated Solvent Remediation, El Centro, California (Project Geologist)
Brian performed site remedial investigation and clean up of chlorinated solvent-impacted soil and groundwater. He designed and implemented feasibility tests which included in-situ chemical oxidation using potassium permanganate and hi-vacuum dual phase extraction. He also designed and implemented final remediation approach using six-phase electrical resistance heating. The project value was $1,000,000.

Mixed-Use
Compton Redevelopment Project, Compton, California (Project Geologist)
Brian performed site remedial investigation and cleanup of soil chemically impacted with petroleum, PCBs, chlorinated solvents, and heavy metals including hazardous waste concentrations of lead and groundwater impacted with chlorinated solvents. Mitigation of impacted soil included appropriate remedial excavations and corrective grading plans. Groundwater remedy included SVE with air sparging and in-situ chemical oxidation using potassium permanganate. All work was completed under State of California oversight. The project value was $2,800,000.

Multi-Unit / Family Residential
Claremont Residential Development, Claremont, California (Project Geologist)
Brian performed a remedial investigation that identified the presence of approximately 9,000 cubic yards of lead impacted fill materials. He designed and implemented corrective grading plan that included the generation a of numerous small stockpiles of soil that were statistically characterized and either reused on site or disposed of off site. Site mitigation was conducted under the oversight of the Los Angeles County Fire Department. The innovative grading approach resulted in client cost savings of $500,000.

Residential Redevelopment Project, Torrance, California (Project Geologist)
Brian oversaw remediation of petroleum and solvent contamination that resulted from historical oil field activities overprinted by contamination from a more recent release from a dry cleaning facility. The site was mitigated to residential standards under State of California oversight. Remedial actions included re-abandonment of an onsite oil well and removal of the historical pipeline infrastructure, excavation and onsite bioremediation of petroleum impacted soil, and soil vapor extraction to reduce solvent impact in the vicinity of the former dry cleaners. In addition, at all locations where solvent-impacted soil was recalcitrant to vapor extraction, due to the presence of heavy petroleum, a large diameter flight auger was used to drill out residual contamination. The project value was $750,000.

Appendix C USER PROVIDED RECORDS

Stantec

PHASE I ESA USER'S QUESTIONNAIRE

In order to qualify for protection from land owner liability under CERCLA as an *innocent landowner, bona fide prospective purchaser,* or *contiguous property owner*, ASTM standard practice E1527-13 and the federal AAI rule (40 CFR 312) require that the User of the Phase I ESA report provide certain information (if available) to the Environmental Professional completing the assessment. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete. Information that is not or cannot be provided to the Environmental Professional may be identified as a "data gap" in the Phase I ESA report.

Please answer the following questions as completely as possible. Attach additional pages as needed. Return the completed questionnaire to Stantec along with the executed Authorization For services form.

1. Property Information

Property Name: Cypress Technology Campus

Property Address(es): 5665 & 5757 Plaza Drive

City: Cypress State CA Zip 90630

Property Owner Name: G&I IX CYPRESS CAMPUS LP (DRA Advisors)

Property Owner Phone #: 415-633-0016

2. Contact For Site Access

Name: Craig Wright

Company/Organization/Title: CBRE - Building Engineer

Phone # 714.321.5829 E-Mail Address: Craig.Wright2@cbre.com

3. Environmental Cleanup Liens. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

_____ Yes X _____ No

If yes, describe or attach details of the lien _____

_____

4. Activity and Land Use Limitations. Are you aware of any activity and use limitations, such as engineering controls, land use restrictions, or institutional controls that are in place at the property and/or have been filed or recorded as applicable to the property as a result of environmental contamination, investigation, cleanup, or related matters?

_____ Yes X _____ No

If yes, describe or attach details of the limitations _____

_____

5. Specialized Knowledge or Experience. As the User of this ESA, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property, such that you would have specialized knowledge about chemicals and processes used by this type of business?

_____ Yes X_____ No

If yes, describe or attach details of your specialized knowledge or experience _____

_____

6. Relationship of Purchase Price to Fair Market Value of Property. Does the purchase price being paid for the property reasonably reflect the fair market value?

_____Yes _____No

X_____Not applicable. User is not involved in a purchase of the property.

If you conclude that there is a difference, do you have any reason to believe that the reduced purchase price may be related to contamination known or believed to be present at the property?

_____Yes, I have reason to believe that the purchase price for the property has been reduced in comparison with the fair market value due to contamination known or believed to be present at the property.

_____No, I have no reason to believe that the purchase price for the property has been reduced in comparison with the fair market value due to contamination known or believed to be present at the property.

7. Commonly Known or Reasonably Ascertainable Information. Are you aware of commonly known or reasonably ascertainable information about the property that would help the Environmental Professional to identify conditions indicative of releases or threatened releases of hazardous substances or petroleum products? For example:

Do you know the past uses of the property?

X_____Yes (describe) Office and Industrial and prior to that, dairy farming.

_____

_____

_____No

Do you know of chemicals, hazardous substances or petroleum products that are present or once were present at the property?

_____Yes (describe) _____

_____

_____

X_____No

Do you know of spills or other releases of chemicals, hazardous substances or petroleum products that have taken place at the property?

_____Yes (describe) _____

_____

_____

X_____No

Do you know of any environmental cleanups that have taken place at the property?

_____Yes (describe) _____

_____

_____

X_____No

8. The Degree of Obviousness of Contamination. E1527-13 and the federal AAI rule (40 CFR 312.31) require that the Phase I ESA consider the degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation. Based on your knowledge and experience related to the property, are there any *obvious* indictors that point to the presence or likely presence of contamination at the property?

_____Yes (describe) _____

_____

_____

X_____No

9. Availability of Previous Environmental Reports. Are you aware of previous environmental site assessment reports, other environmental reports, documents, correspondence, etc. concerning the property and its environmental condition?

_____Yes (describe) _____

_____

_____

X_____No

Signature: Lan Lan

Name (printed): Lan Lan

Title: Senior Real Estate Manager

Date: 7/26/21

ESIS
Health, Safety, and Environmental
7700 Irvine Center Drive
Suite 900
Irvine, CA 92618

714.913.4842
714.913.4855 *fax*

ruth.weinberger@esis.com
www.esis.com

Ruth A. Weinberger, CHMM®, CESCO
Senior HSE Consultant

June 22, 2016

Ms. Lynn Gordon
Assistant Property Manager
Transwestern
1630 South Sunkist, Unit A
Anaheim, California 92806

Subject: **2016 ANNUAL ENVIRONMENTAL AUDIT**
5665 Plaza Drive
Cypress, California 90630
Project No. 00044.56.608

Dear Ms. Gordon:

Please find enclosed one (1) copy of the Annual Environmental Audit (AEA) Report for the above-mentioned project. The AEA was conducted in accordance with the RREEF Management Company Scope of Work, Annual Environmental Audit, dated March 4, 2010.

Should you have any questions or concerns regarding this project, please do not hesitate to contact the undersigned at (949) 242-6925.

Sincerely,

ESIS, Inc. – Health, Safety & Environmental

Ruth A. Weinberger, CHMM®, CESCO
Senior HSE Consultant

Enclosure

cc: Mr. Russ Binggeli, RREEF Management Company, Costa Mesa, California

2016 ANNUAL ENVIRONMENTAL AUDIT

5665 PLAZA DRIVE
CYPRESS, CALIFORNIA

Prepared For:

TRANSWESTERN
COMMERCIAL SERVICES

Transwestern
1630 South Sunkist Street, Suite A
Anaheim, California 92806

Prepared By:

ESIS®

ESIS, Inc. – Health, Safety & Environmental
7700 Irvine Center Drive, Suite 900
Irvine, California 92618

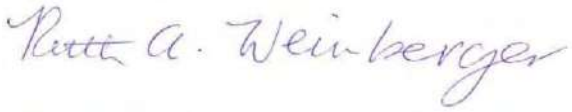
June 22, 2016

Project No.: 00044.56.608

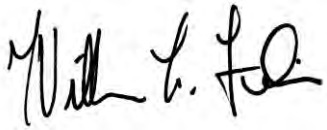
2016 ANNUAL ENVIRONMENTAL AUDIT

5665 PLAZA DRIVE
CYPRESS, CALIFORNIA

Submitted By:



Ruth A. Weinberger, CHMM®, CESCO
Senior HSE Consultant



William L. Felix
Senior Reviewer

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FIGURE

FIGURE 1 SITE PLAN

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APPENDIX A: RESUMES
APPENDIX B: EDR RADIUS MAP REPORT

1.0 INTRODUCTION

At the request of Transwestern, ESIS, Inc. – Health Safety & Environmental (ESIS HSE) has performed an Annual Environmental Audit (AEA) for the property (herein referred to as the Site) at 5665 Plaza Drive in Cypress, California. The AEA was conducted on June 15, 2016 in accordance with the RREEF Management Company (RREEF) Scope of Work, Annual Environmental Audit, dated March 4, 2010.

The purpose of the AEA was to evaluate the overall environmental status of the Site with emphasis on tenants that are engaged in the storage and use of hazardous materials and the generation and storage of hazardous waste. This AEA is not intended to be a Phase I Environmental Site Assessment (ESA), Environmental Compliance Audit, or an OSHA Life and Safety Review.

The AEA for the site included a pre-inspection meeting with the property manager, a review of environmental permits, and a site reconnaissance; which focused on chemical and hazardous waste generation and storage practices, building conditions, housekeeping, wastewater discharge, surface staining, and hazardous materials storage. Hazardous materials, substances, or wastes in this report are as defined by CERCLA in the United States Code (42 USC, Section 9601) or as defined by the Resources Conservation and Recovery Act (RCRA) of 1976 as defined by 42 CFR, Section 6931 Subtitle C.

The following tenants were evaluated for the 2016 AEA:

	Tenant Name	Street Address	Facility Description
1	Beacon CBHM, LLC	5665 Plaza Drive, Suites 100, 400 and 410	Healthcare Services Administrative Offices
2	Toyo Tires	5665 Plaza Drive, Suites 200 and 300	Administrative Offices
3	Nitto Tires	5665 Plaza Drive, Suite 250	Administrative Offices

This report is prepared in a format, which includes information and data required by RREEF.

1.1 Site Description

The Site is located at 5665 Plaza Drive in Cypress, Orange County, California (Figure 1). The Site can be found on the U.S. Geological Survey (USGS) Los Alamitos, California, Quadrangle, 7.5 Minute Series Topographic Map at approximately 33°48'20" North latitude and 118°02'03" West longitude.

The Site is developed with one office building that has a total of 151,589 square feet of tenant space. The Site building is situated on an irregular-shaped parcel of land in a commercial portion of Cypress (Figure 1).

The Site building is of steel frame construction with concrete slab-on-grade floors. Interior walls are primarily constructed of wood framing and drywall. The ceilings are composed of 2-foot by 4-foot (2'x4') lay-in acoustical ceiling panels supported by drop-in T-bar grid systems. Floors in the office portions of the tenant spaces are covered with a combination of carpeting and vinyl flooring materials. The perimeter and

parking areas of the subject property are surrounded with landscaped areas consisting of trees and small bushes. Drainage swales leading to storm drains are used to direct onsite surface water runoff. No surface staining or obvious odors, which might indicate disposal of hazardous waste, were noted in the vicinity of the storm drains.

The Site is currently occupied by three tenants. Tenants that utilize chemicals and/or generate hazardous waste in the course of their operations are discussed in Section 8.

1.2 Prior Reports

Hygienetics Environmental Services (a.k.a. ESIS HSE) reviewed a previous environmental report entitled *Final Phase I Environmental Site Assessment of Mitsubishi Electric & Electronics USA, Inc., 5665 Plaza Drive, Cypress, California*, which was submitted by Golder in July 2002. This Phase I ESA did not identify any significant environmental concerns associated with the activities of the on-site tenants or with the surrounding properties. Golder did observe the presence of staining in the vicinity of the trash compactor utilized by Mitsubishi and recommended that this area be cleaned and that improved housekeeping practices be employed in this area. According to the 2002 Phase I ESA issued by Golder, the SCAQMD issued Mitsubishi a paperwork-related violation regarding its on-site use of an emergency power generator. No concerns were identified regarding the facilities on the environmental database report or the historical use of the subject site. Golder also conducted air monitoring for carbon dioxide and carbon monoxide in the site building and found that all of the samples collected were within the recommended maximum ambient air levels for the site building. The 2002 Phase I ESA conducted for the site by Golder did not include any recommendations for further investigation regarding this site building.

The 2004 Annual Environmental Audit for the Site was conducted in 2004 by Hygienetics Environmental. No significant concerns were noted at the Site, and no recommendations for further investigation were included in the AEA report.

LFR conducted an AEA for the Site in 2005. No significant environmental concerns were noted at the Site, and no recommendations for further environmental investigation were included in the AEA report.

Hygienetics conducted AEAs for the Site in 2006, 2007 and 2008. No significant environmental concerns were noted at the Site, and no recommendations for further environmental investigation were included in the 2006, 2007, and 2008 AEAs.

ARCADIS conducted an AEA for the Site in 2009 and 2010. No significant environmental concerns were noted at the Site and no recommendations were made. ARCADIS also conducted an AEA for the Site in 2011. Based upon observations made during the 2011 AEA, ARCADIS recommended the Site obtain a Flammable Materials Permit issued by the Orange County Fire Authority (OCFA) required for storing flammable liquids in an AST on site. At the time of ARCADIS's 2012 AEA inspection, the Site still had not obtained a Flammable Materials Permit.

ESIS HSE conducted the AEAs for the Site in 2013, 2014, and 2015. One double-walled, secondarily contained approximately 200-gallon diesel day tank is used to power an emergency generator and located on the Site building roof. A Flammable Materials Permit issued by the OCFA is required for storing flammable liquids in the AST on site. ESIS HSE recommended that Transwestern obtain the required OCFA

permit. At the time of the 2016 AEA, the required permit was not presented for review during the Site visit.

1.3 Site Reconnaissance

Ms. Ruth Weinberger, Senior HSE Consultant with ESIS HSE, visited the Site escorted by Ms. Lynn Gordon on June 15, 2016. The site reconnaissance focused on general building conditions including on-site chemical and hazardous materials use, storage, and disposal; hazardous waste generation, storage, and disposal; environmental permits; the presence of surface impoundments, USTs and ASTs; and the presence of on-site transformers and overhead power lines.

2.0 REVIEW OF TENANT ENVIRONMENTAL PERMITS

ESIS HSE attempted to review environmental permits for tenants at the Site who possess environmental permits. According to information provided by site tenants and observations in the field, none of the Site tenants (of those inspected at the Site) engages in activities requiring environmental permits.

However, one onsite backup generator and associated tank require an environmental permit. An approximately 200-gallon aboveground storage tank (AST) is located on the Site building roof. The AST is used to power a backup generator. The following permit has been issued for operation of the generator:

- South Coast Air Quality Management District (SCAQMD) Facility ID No. 159181 for the operation of a diesel generator (the current permit was not posted on the generator).

This permit is renewed by the SCAQMD on an annual basis. A permit for storing flammable liquids issued by the OCFA does not appear to be maintained onsite.

3.0 SURFACE WATER CONTAMINATION

Stormwater drains, which lead to and the municipal storm drain system, are used to collect runoff from the roof and surface runoff entering the garage. No surface staining or obvious noxious odors were noted in the vicinity of the storm drains, which might indicate disposal of hazardous waste.

4.0 SOIL CONTAMINATION

ESIS HSE inspected the Site for surface staining. At the time of the 2016 AEA site inspection, ESIS HSE did not observe any visual presence of staining inside the tenant spaces inspected at the site. Small areas of surface staining were noted in parking areas, which are most likely the result of leaking automobile fluids. These stained areas do not represent a significant on-site threat of hydrocarbon contamination to the soil.

5.0 ASBESTOS CONTAINING MATERIALS

In conjunction with the 2002 Phase I ESA, Golder collected a total of twenty-seven (27) bulk samples of suspect ACMs from the 5665 Plaza Drive site building. The analytical results indicated the presence of asbestos in the roof penetration mastic on this building. Golder recommended that a limited Operations and Maintenance (O&M) Plan be developed for this building.

ESIS HSE recommends that the confirmed ACMs be handled as required by current regulations.

6.0 POLYCHLORINATED BIPHENYLS

6.1 Transformers

Two (2) pad-mounted electrical transformers were identified on the Site, which are owned and operated by Southern California Edison (SCE). SCE has issued a statement indicating that it is unlikely that these transformers are PCB-containing. SCE is responsible for ensuring that its transformers comply with all applicable regulations. At the time of the reconnaissance, the transformers did not appear to be leaking.

6.2 Fluorescent Light Fixtures

PCBs may also be found in capacitors and fluorescent lighting unit ballasts. Fluorescent lighting was observed in all the tenant areas that were entered. The ballasts were inaccessible at the time of the site inspection. ESIS HSE recommends that burned out ballasts are disposed of as required by law.

7.0 UNDERGROUND AND ABOVE GROUND STORAGE TANKS

No visual evidence of USTs was identified at the Site. One double-walled, secondarily contained approximately 200-gallon diesel day tank is used to power an emergency generator and located on the Site building roof. No evidence of leaks or stains was observed/reported in the vicinity of the diesel AST.

8.0 TENANT MANAGEMENT OF HAZARDOUS MATERIALS

At the time of the site reconnaissance, no chemicals and hazardous wastes were identified in the tenant suites assessed for the 2016 audit. Small quantities of commercial cleaners were observed in the tenant spaces inspected during the AEA Site walk. The onsite storage and use of these products does not represent an environmental concern to the subject Site.

Additional onsite chemicals include small quantities of water treatment chemicals (inhibitor and biocide) used in association with a cooling tower that services the onsite building. The cooling tower is maintained by an outside vendor.

9.0 REGULATORY RECORDS REVIEW

The RREEF AEA scope of work indicates that “if warranted on the basis of observed Site and/or adjacent Site conditions (or every five years), an updated regulatory records database should be obtained and reviewed to evaluate potential environmental conditions at the Site from either on-Site or off-Site sources.” As part of the 2016 AEA, government records search for performed by Environmental Data Resources, Incorporated (EDR).

On-Site

According to the attached EDR Radius Map Report, the Site address does not appear on any of the government databases searched by EDR indicating a release of hazardous substances has occurred.

The only Site listings included in the EDR database report were related to Mitsubishi Elevator Inc. (Mitsubishi) and Transwestern. Mitsubishi and Transwestern are included on the HAZNET database for the manifesting of hazardous waste for disposal. Based on the information provided, no notices of violation, releases or other outstanding issues were reported in relation to the Site address.

Off-Site

ESIS HSE also searched the EDR report and State of California GEOTRACKER and ENVIROSTOR databases to assess the potential for Site impacts from nearby off-Site sources. According to the information reviewed, the potential for subsurface impacts from off-Site hazardous substances release incidents is low.

There were no additional adjoining or adjacent properties listed on either the GEOTRACKER or ENVIROSTOR database.

10.0 RADON ASSESSMENT

Based on the RREEF scope of work, radon assessments are not included in the scope of work for AEAs. As such, a radon assessment has not been conducted for the Site in conjunction with the 2016 AEA.

11.0 OSHA HAZARD COMMUNICATION STANDARD (HCS)

According to the RREEF scope of work, if conditions exist where RREEF employees may be required to handle hazardous materials, an evaluation is required to be conducted in conjunction with the AEA. RREEF employees do not staff the Site. Transwestern/RREEF employees may use paint and a variety of different building maintenance chemicals for routine maintenance and repair activities. The OSHA Hazard Communication Standard requires employers to notify employees regarding the hazardous related to their jobs. ESIS HSE anticipates Transwestern's compliance with the OSHA Hazard Communication Standard provided that material safety data sheets (MSDS) are made available to their employees for their reference.

12.0 LEAD IN DRINKING WATER OR PAINT

According to the RREEF scope of work, lead "in any form" is not recommended to be evaluated in conjunction with AEAs. As such, such lead assessments have not been conducted for the Site in conjunction with the 2016 AEA.

13.0 PESTICIDES/HERBICIDES

ESIS HSE inspected the Site for evidence of pesticide/herbicide use and/or storage. No pesticides/herbicides were identified during the Site reconnaissance. Transwestern/RREEF contracts all

landscaping at the Site to an outside landscape maintenance contractor. Pesticides and herbicides are reportedly used on-Site on a limited basis according to manufacturer instructions, but are not stored on-Site. Based on the information provided, the use of chemicals, fuels, and/or pesticides does not appear to be an environmental concern in relation to the Site at this time.

14.0 INDOOR AIR QUALITY (IAQ)

According to the RREEF scope of work, IAQ testing is not recommended to be evaluated in conjunction with AEAs. As such, such IAQ testing has not been conducted for the Site in conjunction with the 2016 AEA.

15.0 MICROBIAL CONTAMINATION

During the course of this AEA, ESIS inspected the tenant spaces for visual evidence of moisture intrusion and/or microbial growth. In addition, ESIS HSE conducted an interview with current onsite representatives regarding events leading to moisture intrusion and subsequent microbial growth. Based on information from tenant interviews and observations in the field, there was no evidence of moisture-intrusion/mold growth in tenant spaces visited during the 2016 AEA. Therefore, moisture-intrusion/microbial growth does not appear to represent an environmental concern at the Site at this time.

16.0 DRY CLEANERS

Based on the information provided by Transwestern and RREEF and observations made during the course of ESIS HSE's AEA Site inspection, no dry cleaning facilities (plant on-premises, drop-off locations or any other dry cleaning-type facilities) are present at the Site. As such, ESIS HSE did not perform any additional or specialized evaluation of the Site with respect to dry cleaners.

17.0 MSDS REVIEW

ESIS HSE reviewed MSDS associated with on-Site chemical usage, and observed chemical and hazardous waste storage and handling practices at the Site. The tenants at the Site do not utilize/store significant amounts of chemicals on-Site as part of their operations. Some of these tenants also, store small quantities of household-strength cleaners in break room areas (generally stored under sinks, in cupboards or on shelves). Housekeeping on-Site was noted to be good in all tenant spaces visited during the 2016 AEA.

18.0 FINDINGS, CONCLUSIONS AND RECOMMENDATIONS

ESIS HSE conducted an AEA for 5665 Plaza Drive in Cypress, California. The AEA was conducted in accordance with RREEF Management Company Scope of Work, Annual Environmental Audit, dated March 4, 2010. The AEA consisted of a previous report review and a site reconnaissance. Based on field observations, review of previous environmental reports, and current regulatory guidelines, the following conclusions and recommendations are presented:

Item 1:
A Flammable Materials Permit issued by the OCFA is required for storing flammable liquids in the AST on site.

Recommendations:
ESIS HSE recommends that Transwestern obtain the required OCFA permit.

Item 2:
At the time of the site inspection, the suspected/confirmed ACMs were noted to be in good condition.

Recommendations:
ESIS HSE recommends that ACMs be handled as required by current regulations.

Based upon the 2016 AEA site observations and previous report review, no further environmental investigation is warranted at this time.

Annual follow-up audits should be continued in accordance with the RREEF Management Company Scope of Work, Annual Environmental Audit, dated March 4, 2010.

19.0 LIMITATIONS

This report and the information herein contained have been prepared by ESIS, Inc. Health, Safety & Environmental Services (herein referred to as ESIS HSE) for the sole use of RREEF Management Company/Transwestern (herein referred to as the Client), or their assigned parties. The conclusions presented in the Report were based solely upon the services described therein, and not on scientific tasks or procedure beyond the scope of described services or the time and budgetary constraints imposed by the Client. The work described in this report was carried out in accordance with the attached Standard Conditions outlined in the proposal/contract.

The purpose of this report was to assess the physical characteristics of the Site with respect to the presence in the environment of hazardous material/waste or petroleum products (herein referred to as oil). No specific attempt was made to check on the compliance of present or past owners or operators of the Site with federal, state or local laws and regulations environmental or otherwise.

In preparing this Report, ESIS HSE has relied on certain information provided by observations made by ESIS HSE personnel during an on-Site inspection and evaluation, personal interviews of the client, tenants, other private parties and consultants; research of available public information found in documents, records and maps provided by federal, state and/or local regulatory agencies, document libraries and utility companies. This is subject to the limitations of historical documentation, as well as the availability and accuracy of pertinent records. Although there have been some degree of overlap in the information provided by these various sources, ESIS HSE did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this Site assessment. The accuracy of property boundaries, addresses, and/or assessor parcel numbers for the Site or properties examined for the investigation are the responsibility of the Client.

Observations were made of the Site and of structures on the Site as indicated within the Report. Where access to portions of the Site or to structures on the Site was unavailable or limited, ESIS HSE is unable

to render an opinion as to the presence of hazardous material/waste or oil, or to the presence of indirect evidence relating to hazardous material/waste or oil, in that portion of the Site or structure. In addition, ESIS HSE renders no opinion as to the presence of hazardous material/waste or oil, where direct observation of the interior walls, floor, or ceiling of a structure on a Site was obstructed by objects or coverings on or over these surfaces or when access was denied by the property owner, operator or tenant.

The initial Site investigation took into account the natural and man made features of the Site, including any unusual or suspect phenomenon. These factors, combined with the Site's geology, hydrogeology, hydrology, topography, and past and present land uses served as a basis for choosing a methodology and location for subsurface exploration as well as groundwater and subsurface sampling, if done. The subsurface data, if provided, is meant as a representative overview of the Site. It is possible that despite the use of reasonable care and interpretation, ESIS HSE may not have identified illegally disposed hazardous materials and/or wastes, unreported regulatory violations, the presence of hazardous substances or wastes migrating onto the Site from off-Site sources, and unpermitted, misidentified illegal, or inappropriately abandoned underground tanks, vaults, drums, or other containers or buried impoundments on the Site and its immediate vicinity.

Unless otherwise specified in the Report, ESIS HSE did not conduct surface or subsurface investigation involving the physical collection and analysis of air, soil-vapor, surface- or ground-water, bulk building materials, transformer fluids, and contents of on Site tanks, or other containers; nor have any geophysical investigations been conducted.

If a Phase II investigation was conducted, then the conclusions and recommendations contained in this Report are based in part upon the data obtained from a limited number of soil samples obtained from widely spaced subsurface explorations. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

Water level readings have been made in the test pits, borings and/or observation wells at the times and under the conditions stated on the test pit or boring logs. However, it must be noted that fluctuations in the level of groundwater may occur due to variations in rainfall, time, and other factors. Should additional chemical data become available in the future, these data should be reviewed by ESIS HSE, and the conclusions and recommendations presented herein modified accordingly.

Except as noted within the text of the report, no quantitative laboratory testing was preformed as part of the Site assessment. Where such analyses have been conducted by an outside laboratory, ESIS HSE has relied upon the data provided, and has not conducted an independent evaluation of the reliability of these tests.

The conclusions and recommendations contained in this report are based in part upon various types of chemical data and are contingent upon their validity. These data have been and are contingent upon their validity. These data have been reviewed and interpretations made in the Report. As indicated within the Report, some of these data are preliminary "screening" level data and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time and other factors.

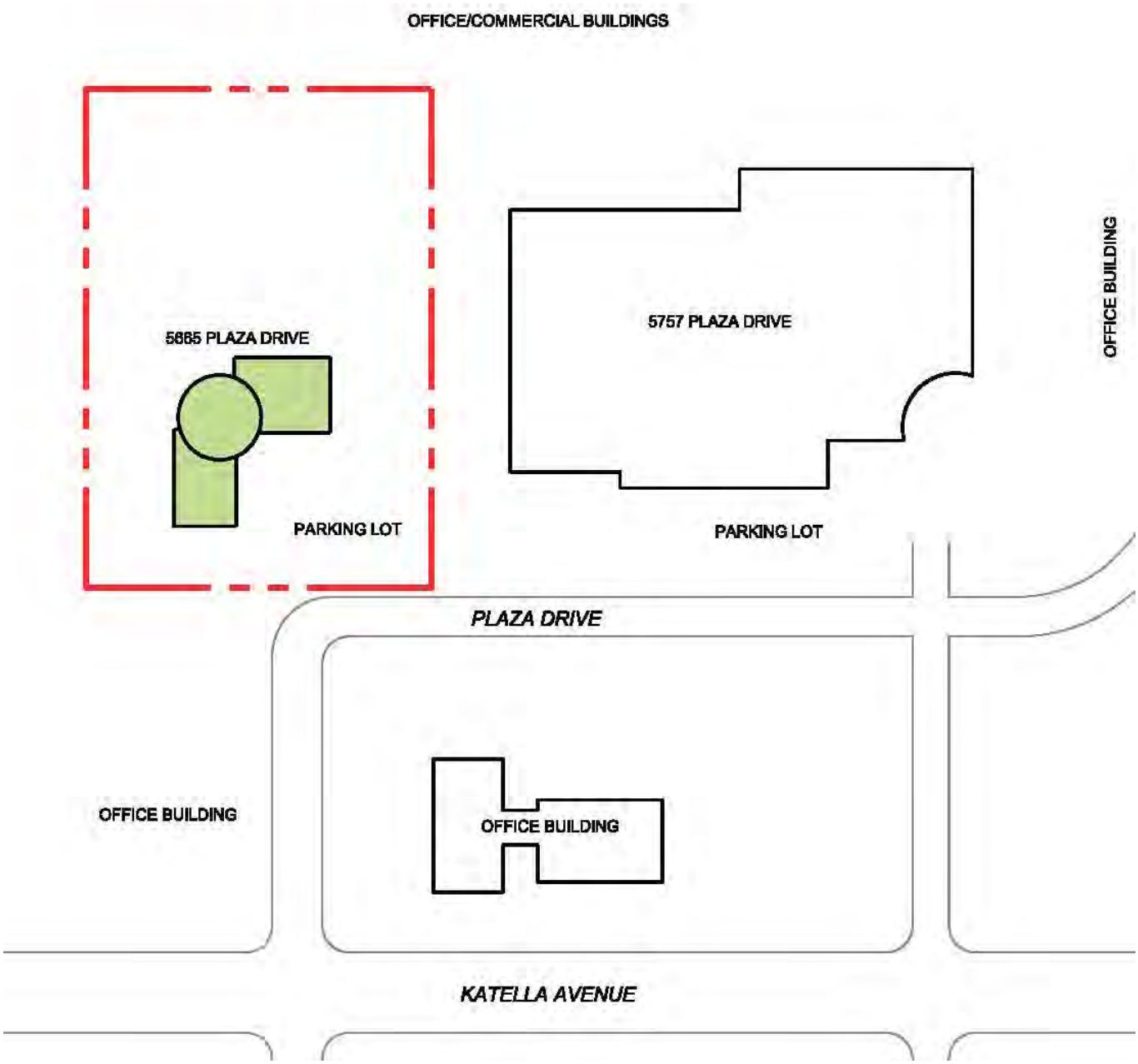
Should additional chemical data become available in the future, this data should be reviewed by ESIS HSE and the conclusions and recommendations presented herein modified accordingly.

Chemical analyses have been performed for specific parameters during the course of this Site assessment, as described in the test. However, it should be noted that additional chemical constituents not searched for during the current study may be present in soil and/or groundwater at the Site.

ESIS HSE assumes no responsibility for the accuracy of information identified or obtained from government records which may be out of date, incomplete, or otherwise inaccurate. ESIS HSE assumes no responsibility for conditions that were not specifically requested and evaluated, events that may have occurred after the Site visit such as illegal disposal or accidental spillage of hazardous materials/wastes, or conditions that were not generally recognized as environmentally unacceptable at the date this report was prepared. ESIS HSE prepared this report for the Client's exclusive use for this particular project. No other warranties, expressed or implied, as to the professional advice provided are made. It is recommended that ESIS HSE be retained to provide further engineering services during construction and/or implementation of any remedial measures recommended in this report. This is to allow ESIS HSE to observe compliance with the concepts and recommendations contained herein, and to allow the development of design changes in the event that subsurface conditions differ from those anticipated.

FIGURE 1

SITE PLAN



Not to Scale

RREEF 5665 Plaza Drive Cypress, California	ESIS® ESIS, Inc. 7700 Irvine Center Drive Suite 900 Irvine, CA 92705 Phone: (714) 913-4842 Fax: (714) 913-4855	PROJECT NO. 4456.608	Prepared By: RAW	06/16
		Site Plan		Figure 1

APPENDIX A

RESUMES

Ruth A. Weinberger, CHMM®, CESCO, CSST, CDPH Lead I/A

HSE Consultant

Technical Specialties

Environmental Site Assessments

Environmental Audits

Environmental Compliance Reviews

Underground Storage Tank Compliance

Subsurface Investigations

Asbestos Surveys

Lead-Based Paint & Lead-In-Drinking Water Surveys

Visual IAQ Assessments

Education

B.S., Applied Ecology, University of California, Irvine, 1997

Minor, Global Sustainability, University of California, Irvine, 1997

Certifications/Accreditations

Certified Hazardous Materials Manager® No. 16045

Certified Environmental and Safety Compliance Officer No. 968179378

California Certified Site Surveillance Technician Certification No. 99-2550

California Department of Health Services Lead Inspector/Assessor Certification No. I-7069

EPA/AHERA Accredited Asbestos Contractor Supervisor

Ms. Weinberger has over 15 years of experience in the environmental field as a consultant in the private sector. Ms. Weinberger has managed or participated in the performance of more than 600 environmental site assessments, more than 600 environmental audits and more than 150 environmental compliance reviews of industrial, commercial, and residential properties throughout the United States. Ms. Weinberger previously led the National Accounts Program for Hygienetics Environmental Services (Hygienetics, currently known as ESIS, Inc. – Health, Safety and Environmental Services (ESIS HSE)), reviewing Phase I Environmental Site Assessments (ESAs) and various environmental reports company-wide. Ms. Weinberger has also conducted soil and groundwater investigations for a variety of clients in the Western United States. In the past, Ms. Weinberger has acted as a Senior Environmental Consultant for a national consulting firm and was an appointed Technical Leader within the company, reviewing environmental reports company-wide.

Representative Project Experience

Compliance Related Services

Aramark, Various Locations.
Developed Environmental and OSHA Gap Analysis Form related to healthcare industrial laundry facilities based on applicable federal, state and local environmental and OSHA-related regulations.

Confidential Client, Carlsbad, California.
Performed a compliance review and environmental assessment of a large laser manufacturing company with a location in Carlsbad, California. Included reviewing the company's programs and permits, as well as an inspection of the facility to confirm compliance.

Confidential Client, Carson and Fallbrook, California.
Performed a compliance review and environmental assessment for a large nursery company, specifically related to their Carson and Fallbrook, California locations. Researched regulations related to nursery/farm workers (i.e. personal protective equipment, pesticide application regulations); water management (i.e. storm water management and related plans; protection of nearby wetland areas); as well as typical hazardous materials, hazardous waste, air and tank regulations.

Confidential Client, Century City, California.
Managed NPDES permit for a large shopping center de-watering system. Performed quarterly discharge monitoring events. Prepared and submitted Discharge Monitoring Reports.

Certifications/Accreditations (continued)

EPA/AHERA Accredited Building Inspector

40-Hour Lead Inspector/Assessor Training

OSHA 40-Hour Hazardous Waste Operations/24-Hour Health & Safety Training

Confidential Client, Culver City, California.
Managed NPDES permit for a large entertainment-related property de-watering system impacted with perchloroethylene from nearby, off-property facilities. Performed quarterly discharge monitoring events. Maintained an activated carbon groundwater remediation system. Prepared and submitted Discharge Monitoring Reports.

Confidential Client, Irvine, California.
Performed a compliance review and environmental assessment of a large furniture manufacturer located in Irvine, California. During the course of the compliance review, various environmental compliance issues were observed and noted. As a result, Ms. Weinberger provided environmental compliance recommendations and support to this client in order to address these issues. Support included air permit reviews and revisions; material safety data sheet (MSDS) review, collection, organization and training structure; and development of a hazard communication plan.

Confidential Client, Ontario, California.
Performed an insurance risk assessment audit for a large pool and household chemicals manufacturer. Reviewed corporate environmental, chemical, hazardous waste, health, safety, premises, automobile and other risks related to the company and its operation at the Ontario, California headquarters. Also reviewed standard operating procedures and policies; permits; hazardous waste storage and disposal documentation. Conducted a site inspection to observe whether the standard operating procedures and policies prepared by the company and its consults were being implemented in on-site operations.

Confidential Client, Orange, California.
Performed a compliance review and environmental assessment of a large healthcare laundry facility located in Orange, California. Researched regulations related to healthcare laundry industry; water management (i.e. wastewater management, storm water management, outdoor storage); as well as typical hazardous materials, hazardous waste, air and tank regulations.

Confidential Client, South El Monte, California.
Performed a compliance review and environmental assessment of a facility utilized to manufacture large metal bins and containers. Researched regulations related to metal cutting, painting, air emissions; waste storage; water management; as well as typical hazardous materials and hazardous waste regulations

Confidential Client, Southern California.
Performed a compliance review and environmental assessment several nursery, tree and landscape maintenance facilities located throughout. Researched regulations related to healthcare laundry industry; water management (i.e. wastewater management, storm water management, outdoor storage); as well as typical hazardous materials, hazardous waste, air and tank regulations.

Confidential Client, Sparks, Nevada.
Performed Phase I ESA and compliance review for a waste oil and hazardous waste transfer, storage and disposal facility (TSDF). The compliance review included reviewing the following: hazard communication plans; tank compliance; hazardous materials storage, permitting and compliance; hazardous waste storage, permitting and compliance; spill plans; water management (i.e. wastewater, storm water, wells); air permitting; and reviews of records pertaining to this facility.

Confidential Client, Washougal, Washington.
Performed Phase I ESA and compliance review for a large manufacturer of non-woven fabrics. The compliance review included reviewing the following: hazard communication plans; tank compliance; hazardous materials storage, permitting and compliance; hazardous waste storage, permitting and compliance; spill plans; water management (i.e. wastewater, storm water, wetlands and river protection; wells); air permitting; and reviews of records pertaining to this facility.

RREEF Management Company/The RREEF Funds, Various Locations.
Served as inspector, project manager and overall coordinator for Annual Environmental Audits (AEAs) of RREEF's various industrial, commercial, office and retail properties. Conducted the AEAs in accordance with an agreed upon scope of work, which included reviewing the following: permits; chemical and hazardous wastes storage practices; hazardous waste disposal documentation/records; spill plans and other environmentally-related plans; and previous environmental reports related to each property. In addition, performed visual inspections for evidence of moisture intrusion during the course of the site inspections.

Standard Management Company, Property in Chatsworth, California.
Provided hazardous materials testing, tank removal oversight, and waste management in conjunction with decommissioning abandoned pharmaceutical manufacturing equipment. Conducted a compliance audit related to on-site tenants prior to lease renewal. This audit included an interview with the company president, review of permits and records, inspection of the facility, and surrounding property reconnaissance.

Valley Crest Companies, Various Locations.
Performed a compliance review and environmental assessment several nursery, tree and landscape maintenance facilities located throughout. Researched regulations related to nursery/farm workers (i.e. personal protective equipment, pesticide application regulations); water management (i.e. storm water management and related plans; protection of nearby wetland areas); as well as typical hazardous materials, hazardous waste, air and tank regulations.

Underground Storage Tank Compliance and Management Services

Confidential Client, St. George, Utah.
Performed Phase I ESA, general compliance review and an underground storage tank (UST) compliance review for a large gasoline and diesel filling station and travel center in St. George, Utah. The compliance review included reviewing the following: hazard communication plans; tank compliance;

hazardous materials storage, permitting and compliance; hazardous waste storage, permitting and compliance; spill plans; water management (i.e. wastewater, storm water, wells); air permitting; and reviews of records pertaining to this facility. The UST compliance review included reviewing the following: tank permitting and registration records; tank monitoring system; employee training with respect to tanks, monitoring and related plans/procedures; tank filling procedures; tank gauging; and other UST-related items.

Portfolio of Gasoline Stations, Clients and Locations Confidential.
Served as project manager for conducting document review for UST compliance of a portfolio of gasoline station properties related to a real estate transaction. The scope of the review included document/data gathering from the corporate entities involved with the transaction; telephone interviews with site personnel and corporate representatives; telephone interviews with the appropriate regulatory agencies and case workers (regarding both impact and compliance issues); compiling the information gathered; and presentation of the information to the client.

Tank Facilities, Clients and Locations Confidential.
Conducted environmental reviews as they relate to environmental insurance tank policies for various gasoline service stations, hotels, nursing homes, apartments, and other facilities that include tanks for which coverage is sought. Includes telephone surveys and reviews of previous reports, including Phase I ESAs, Phase II subsurface investigations, groundwater monitoring reports, various regulatory agency documents, and related environmental information.

Due Diligence and Mergers & Acquisitions (M&A) Projects

GE Capital Real Estate, Nationwide.
Served as client manager for GE Capital Real Estate projects across the United States. Responsible for staffing projects and serving as liaison between GE Capital Real Estate and project personnel, performing and managing various Phase I/II environmental projects for GE Capital Real Estate. Other duties involved negotiating pricing, preparing proposals and providing technical support to company offices nationwide.

The RREEF Funds, Various Projects.
Served as project manager for Phase I ESAs of various industrial, commercial, office, retail and residential properties scheduled for acquisition. Phase I ESAs have been conducted in accordance with the AAI Standard (or similar industry standards in place at the time). In addition, industrial hygiene related tasks typically performed during such acquisition studies, with tasks including asbestos surveys; lead-in-drinking-water sampling; radon surveys; visual inspections for evidence of moisture intrusion; and indoor air quality (IAQ) assessment. Such IAQ assessments required testing for temperature, relative humidity, carbon dioxide, and carbon monoxide.

Various Food Production Facilities, Clients and Locations Confidential.
Served as project manager for conducting Phase I ESAs and Environmental Compliance Reviews for a series of food production facilities located throughout California. The scope of work included site inspections; interviews; data gathering in order to evaluate potential compliance issues related to these facilities (including, but not limited to, Ozone Depleting Substances (ODSs)); client conference status calls and preparation of final reports.

Historical Hotel in Southern California, Client and Location Confidential.
Served as project manager on a Phase I ESA of a large, historical hotel complex in Southern California. Phase I ESA conducted in accordance with the AAI Standard (or similar industry standard in place at the time). Phase I ESA included an inspection of the entire complex; review of permits and documents; review of historical information dating to the 1880s and reconciling tank removals and related records associated with this hotel property.

Airport in Southern California, Client and Location Confidential.
Served as staff environmental scientist during the removal of 10 USTs from a Southern California airport. Included oversight of excavation, soil sampling, oversight of shoring installation, and final confirmation sampling. Assisted the Professional Geologist with the final report to be submitted to the regulatory agency providing oversight on the project, on behalf of the airport.

GE Capital Real Estate, Property in Lawndale, California.
Served as project manager for a Phase II ESA on a dry cleaning facility to determine extent of tetrachloroethene contamination in soil and groundwater. Soil and groundwater data obtained were used to evaluate remedial options. Worked closely with Regional Water Quality Control Board/Orange County Health Care Agency to seek "case closure" for the site.

Premises Pollution Liability Insurance Policy Review Projects

Large Private Real Estate Owner/Developer, Client and Locations Confidential.
Served as sole reviewer for a large portfolio of properties encompassing tens of thousands of acres in the Western U.S. Responsible for reviewing previous reports, reviewing existing policy and exclusion information, and preparing a risk evaluation matrix based on these reviews.

Large Chemical Manufacturer, Client and Locations Confidential.
Served as project manager for the review of a large chemical manufacturer with locations throughout the world. The insured manufactures chemicals that are used by a variety of end-users, from industry to private consumers. Reviewed the company's oldest and most complex location and managed a team of in-house and out-of-house consultants to perform reviews on additional properties. Also included management of the information provided in the dataroom setup for this insured.

William L. Felix

Senior Consultant

Technical Specialties

Phase I/II Environmental Site Assessments

IAQ & IH Investigations/Testing

Mold Assessments

Mold Remediation Oversight

Education

B.A., Applied Ecology
University of California , Irvine, 1988

Certifications/Accreditations

29 CFR 1910.120 (e) (3) (i) 40-Hour General Workers Training

29 CFR 1910.120 (e) (4) Management and Supervisors Training

Florida
Licensed Mold Assessor
MRSA184

Green Building Certification Institute
LEED® Accredited Professional Building Design & Construction
#10182303

Mr. Felix has over twenty-five years of experience in the environmental field as a consultant in the private sector. He has been responsible for the direction of Environmental Due Diligence programs at various environmental consulting firms. He has directed or participated in the performance of more than 750 environmental site assessments of industrial, commercial, and residential properties. Prior to joining ESIS, Inc. – Health, Safety & Environmental Services (ESIS; formerly Hygienetics Environmental), Mr. Felix led the corporate environmental site assessment practice for a national consulting firm where he was responsible for developing corporate policy and technical procedures for conducting Phase I ESAs. He also managed and performed CERCLA site investigations for various military installations located in southern California. These projects involved assessing potentially contaminated areas prior to base closure or realignment. In addition of to his environmental due diligence experience, Mr. Felix has a broad-range of environmental consulting experience including projects related to employee exposure and indoor air quality (IAQ) testing, and indoor odor investigations.

Representative Project Experience

RREEF, California.
Client Manager for RREEF projects in California. Mr. Felix manages all projects performed for RREEF including:

- Annual Environmental Audits;
- Mold Surveys and Mold Remediation Oversight;
- IAQ Testing;
- Indoor Odor Investigations;
- Asbestos Surveys and Abatement Monitoring;
- Lead Surveys;
- Phase I ESAs (Acquisition and Divestiture);
- Soil Vapor/Soil Sampling; and
- Monitoring Well Abandonment.

Environmental consulting services are performed for industrial, residential, commercial, and retail properties. Responsible for staffing projects and serves as liaison between RREEF and project personnel.

Wells Fargo Bank, California.
Client manager for Wells Fargo projects in California. Responsible for staffing projects and serves as liaison between Wells Fargo and project personnel, performing and managing various Phase I environmental projects for Wells Fargo. Other duties involve negotiating pricing and providing technical support to other offices, as-needed.

ACE Environmental Risk, Nationwide.
Prepare moisture-intrusion and mold prevention plans for various companies throughout the United States. These plans are required for ACE customers whose insurance policies include mold coverage. The plans generally include basic information about mold, health effects, best practices for preventing moisture-intrusion, and methods and procedures for mold remediation. Mold remediation procedures are developed in accordance with U.S. Environmental Protection Agency and New York City Department of Health and Mental Hygiene guidelines. Guidance regarding respiratory protection, engineering controls, clean-up procedures, and post-remediation clearance criteria are included in moisture-intrusion and mold prevention plans. These plans are used to respond to minor water-intrusion events. Mold awareness training is often performed in conjunction with plan preparation. The training is customized for each customer depending on the service line of the company, and covers the topics included in the moisture-intrusion and mold prevention plan.

Bixby Land Company, Eleven Properties in Southern California.
Served as project manager for Phase I ESA of a small commercial retail portfolio scheduled for divestiture. Staffed, managed, and participated in the environmental assessment of small neighborhood retail malls and an auto dealership. ESIS's (operating as Hygienetics Environmental) primarily goal was to complete each Phase I ESA prior to the scheduled real estate offering of all properties. Three properties required further assessment, and Hygienetics Environmental assisted the client with developing a work plan and cost estimates to perform subsequent Phase II ESAs.

Bixby Land Company, Long Beach, California.
Served as project manager for a site investigation of a former gasoline station to assess the presence of abandoned underground storage tanks and historic release incidents of petroleum hydrocarbons. The investigation was conducted in a phased approach by searching for abandoned underground storage tanks (USTs) and over-compacted soil at the Site using ground penetrating radar (GPR) and electromagnetic equipment. The survey results indicated an area of over-compacted soil, which suggested a backfilled former UST excavation. Soil borings were placed in areas close to over-compacted soil, and soil and groundwater samples were collected for analysis. Field evidence and analytical results showed soil was impacted with gasoline range hydrocarbons from moderate (74 ppm) to very high (22,000 ppm) concentrations. Laboratory data also showed ground water at the Site is impacted with relatively high (4.5 ppm) to very high (1,100 ppm) concentrations of gasoline range hydrocarbons.

The RREEF Funds, Carlsbad, California.
Served as project manager for a Phase I ESA of a property scheduled for acquisition. ESIS (operating as Hygienetics Environmental) conducted the Phase I ESA in accordance with the AAI Standard and performed additional environmental due diligence related tasks including asbestos survey; lead in-drinking water sampling; air sampling for non-viable mold spores; and indoor air quality assessment that required testing for temperature, relative humidity, carbon dioxide, and carbon monoxide. The results of the Phase I discovered a moisture-intrusion issue that appeared to impact wallboard material in the shower area of a ground floor restroom and adjacent janitor closet. Hygienetics Environmental arranged for the moisture-intrusion source to be repaired, the impacted wallboard removed and replaced, and associated mold growth removed.

Caltrans, San Diego, California.
Served as project manager for a site investigation along a segment of the I-5 Freeway between Del Mar Heights Road and the San Dieguito River Bridge. The site investigation focused on evaluating soil along the northbound shoulder of I-5 for aerially deposited lead. The scope of the site investigation included health and safety and work plan preparation, utility clearance, soil sampling and analysis, GPS survey of

boring locations, statistical analysis of collected data, and report preparation. The analytical data was used to evaluate soil disposal and reuse options based on SW-846 and Department of Toxic Substances Control (DTSC) guidelines.

Standard Insurance Company, Former Gasoline Station; San Diego County, California.
Served as project manager for a site investigation of a former gasoline station property to determine the extent of petroleum hydrocarbon contamination. The scope of the investigation was performed in accordance with San Diego County Department of Environmental Health (DEH) Site Assessment Manuel (SAM) guidelines. The DEH provided oversight of the project under the Voluntary Assistance Program (VAP).

Costco, Garden Grove, California.
Served as project manager for a Phase II ESA on vacant property to determine the extent of solvent and petroleum hydrocarbon contamination; assisted Costco with obtaining an indemnity agreement with the City of Garden Grove prior to site development.

COVS Partners, Fullerton, California.
Served as project manager for a Phase II ESA on a dry cleaning facility to determine extent of perchloroethylene (PCE) contamination in soil and groundwater. Soil and groundwater data obtained was used to evaluate remedial options; worked closely with RWQCB/Orange County Health Care Agency to gain "case closure" for the site.

United States Navy, San Diego, California.
Served as contract task order leader for CERCLA Preliminary Assessment/Site Investigation projects conducted at the Naval Training Center (NTC). Managed preliminary assessment activities involving aerial photo, records review, interviews with base personnel, onsite and offsite reconnaissance, and community relations support. Also managed site inspection activities at NTC, which involved work plan preparation, establishing data quality objectives, soil and groundwater sampling, and locating abandoned USTs.

LSG Sky Chefs, Vernon, CA.
Managed and performed a UST removal project at LSG's Vernon, California facility. Coordinated the removal of a 10,000 gallon UST and performed onsite screening of potentially impacted soil, soil sample collection activities, and oversight of excavation backfill and repaving efforts. Other duties involved acquiring UST removal permits, work plan preparation, final report preparation, and negotiations with the City of Vernon to gain "no further action" status.

Jones Lang LaSalle, Walnut Creek, California.
Mold growth was discovered on wallboard inside two elevator shafts during a property condition assessment of the building. Mr. Felix was responsible for confirming the presence of mold on the wallboard by collecting surface samples for direct examination. He also assisted with developing a mold remediation protocol and performed post-remediation verification to demonstrate that the remediation was performed successfully. Post-remediation air samples were compared to pre-remediation air sample results and final testing concluded that spore concentrations in post-remediation air samples were similar to indoor and outdoor pre-remediation samples, Consequently, the remediation effort was successfully completed. Part of the project also included identifying the source of the leak, which was discovered to be from blocked drains at the bottom of each shaft.

Confidential Client, Mexico City D.F.
Performed a microbial survey required for the acquisition of a film studio. Responsible for collecting surface samples and interior and exterior spore trap samples, and assisted with identifying water damaged and moldy areas for subsequent removal. During the survey, large areas of mold-impacted wallboard were present throughout the building. A moisture meter was used to find water-damaged wallboard, which were graphically presented on a floor plan. Assisted with estimating rough order of magnitude cost estimates to remove the wallboard. The source of the moisture-intrusion inside the building appeared to be from unsealed exterior joints in the exterior building façade, which allowed water to flow into the building at several points of entry.

Gap Incorporated, Mission Viejo, California.
Performed a moisture-intrusion assessment of the Old Navy store in the Mission Viejo, Mall. Historical water leaks occurred periodically inside the store. Hygienetics discovered small, isolated areas of mold growth, active leaks from the ceiling above the sales floor, and corroded piping anchored to the ceiling. Some piping showed condensation that was also causing damage to merchandise. A visual survey of fireproofing covering the ceiling deck was not possible as the ceilings were too high for a conventional ladder. Hygienetics used infrared imaging equipment to look for temperature differentials in the ceiling material. The results of the infrared imaging indicated that the fireproofing along the perimeter of the store was at a lower temperature indicating water-damaged fireproofing material. Infrared imaging suggested that the source of the moisture-intrusion was the food court above, specifically the kitchens that are roughly located above the perimeter of the store. The infrared imaging also discovered the reason for the formation of condensation on some pipe surfaces. Hygienetics recommended that piping be insulated to stop the formation of condensation, and to work with mall management to identify and correct the each source of moisture-intrusion in the food court.

Confidential Retail Client, Naples, Florida
Performed a microbial assessment of the heating, venting, and air conditioning (HVAC) system inside a retail store. The results of the assessment indicated that interior levels of mold spores were present at high concentrations inside the store. High concentrations of mold spores were also detected inside ductwork, on diffusers, and in the air handing unit (AHU). The moisture source inside the store was the HVAC system not adequately dehumidifying the air inside the store, and causing elevated relative humidity levels. Consequently, a mold remediation protocol was prepared, which involved remediation of the HVAC system and clean-up of selected store surfaces. Post-remediation sampling was performed after the HVAC system was cleaned, and interior spore concentrations were similar to outdoor spore concentrations indicating that the remediation was successful.

Confidential Client, Springfield, Oregon
Provided technical support for a construction defect claim associated with an office building occupied by a software company. Excessive moisture and mold growth was discovered between the foundation and flooring causing warping of vinyl and bamboo flooring at several locations. The cause of the moisture-intrusion was thought to be from excessive water below the concrete slab-on grade foundation. Tasks performed included reviewing claim-related information, concrete moisture test results, spore trap and surface sampling results, and communicating the technical aspects of the claim to the client, which were used to evaluate the merits of the claim.

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FINAL
PHASE I ENVIRONMENTAL SITE ASSESSMENT
OF
MITSUBISHI ELECTRIC & ELECTRONICS USA, INC.
5665 PLAZA DRIVE
CYPRESS, CALIFORNIA 90630
FOR
RREEF AMERICA L.L.C.
AND ITS CLIENT CALPERS

PREPARED BY
GOLDER ASSOCIATES
PROJECT NO. 023-1951-002
JULY 2002

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1.0 EXECUTIVE SUMMARY

At the request of RREEF, Golder performed an ESA of the Mitsubishi Electric & Electronics USA, Inc. (Mitsubishi Electric) office building located at 5665 Plaza Drive in Cypress, California (herein referred to as the subject property, see Figure 1). The subject property consists of one 5-story office building with associated parking areas developed as a commercial complex encompassing approximately 2.5 acres. The building was constructed in 1991, and since that time, has been used for administrative operations. Past use of the subject property reportedly included agricultural operations.

The objective of the ESA was to provide a preliminary evaluation of the presence, use or release on the subject property of hazardous substances or petroleum products such as is defined in ASTM E 1527-00 as a recognized environmental condition. The ESA included site reconnaissance, interviews, review of government environmental agency databases and records, and historical records review. In addition to the ASTM scope of work, Golder conducted sampling and analysis of suspect asbestos-containing materials (ACMs), a fungal screening, and field screening of carbon monoxide and carbon dioxide gas pursuant to the RREEF protocol. A summary of the conclusions and recommendations are listed below:

- The subject property, under the name Mitsubishi Elevator, was listed on the HAZNET database as disposing of paint sludge and other organic solids through a transfer station. According to Ms. Carol Amour, Facilities Supervisor for Mitsubishi Electric, no hazardous wastes have been stored at the subject property.

- The emergency diesel-powered generator is currently permitted by AQMD. One AQMD violation notice was issued to Mitsubishi on August 19, 1999 for failure to maintain the generator operating log (including date of use, run time, reason for use, and amount of diesel used). The last AQMD inspection date was listed as January 1, 2001. The AQMD inspector indicated that the generator runs automatically for 15 to 20 minutes each week. The engine ran for a total of 4.2 hours from 2000 to 2001 and was in compliance with the allowable cumulative hours of operation.

- Twenty-seven bulk samples were collected from suspect ACM in the subject property building. Laboratory analysis indicated ACM in the gray mastic on the building roof. This material is considered nonfriable and was in good condition at the time of the survey. A limited Operations and Maintenance Plan should be developed for the subject property ACM.

- Golder collected six carbon dioxide (CO_2) and carbon monoxide (CO) samples from representative areas on each of the five floors. All of the results were below the recommended ASHRAE maximum ambient indoor air levels of 800 ppm for CO_2 and 9 ppm for CO.

- All five floors showed some evidence of prior water leakage from air conditioning pipes located above the drop ceilings. Suspect fungal growth was observed on the 2nd Floor janitor closet drywall and the 2nd Floor women's restroom floor grout. Several ceiling panels were stained on each floor. Golder recommends that all leaks be repaired and damaged materials removed.

- Significant oil staining was observed surrounding the hydraulic trash compactor located outside the northeast corner of the site building. This area should be steam cleaned and better housekeeping and maintenance practices should be implemented in this area.

2.0 SITE DESCRIPTION

2.1 Interviews

On June 6, 2002, Golder's field investigators performed the site visit and met with several tenant representatives. Interviews with tenant representatives and other individuals including regulatory agency personnel are presented in the following sections where relevant to the discussion.

2.2 Project Area Location and Description

The subject property consisted of one 5-story multi-tenant building located at 5665 Plaza Drive and associated parking areas (Figure 3). Three tenants occupied the building at the time of the site reconnaissance. The office building was constructed of a steel frame with metal decks and concrete floors (Dames & Moore, 1999). The subject property was located within the City of Cypress, Orange County, California (Figure 1).

The subject property was located in the Cypress Business Park, which is characterized by commercial and light industrial businesses. Interior finishes for the buildings generally included gypsum wallboard interior walls with carpeting, floor tile, and suspended ceiling systems with lay-in panels. The tenant spaces were comprised entirely of office space. No warehouse space was observed in the building. The building roof consisted of a built-up mineralized asphalt sheet at the time of the site reconnaissance. Parking for the building was provided by outdoor, uncovered parking spaces. A total of 649 parking spaces were indicated on a Site Plan provided by Mitsubishi Electric and Electronics USA, Inc. (Mitsubishi Electric).

One solid waste receptacle/compactor was located on the northeast side of the subject property building. Paper and cardboard recycling bins were located on the north and west sides of the property, respectively.

2.3 Tenant Review

Three tenants were operating on the subject property at the time of the site reconnaissance. One vacant tenant space was located on the 1st floor to the southwest of the main lobby. The entire 2nd floor, formerly reported as LA Cellular Telephone tenant space, was vacant at the time of the site reconnaissance. Three traction elevators, maintained by Mitsubishi Automation, Inc., were located in the central circular portion of the building. Common areas are located on the 1st floor including a lobby area, security guard area, lunchroom and former kitchen, two conference rooms, one presentation room, and a fitness center. Janitor closets are located on each floor between the men's and women's restrooms. The following indicates the location and a summary of the current tenant activities.

2.3.1 Mitsubishi Electric & Electronics USA, Inc.

Mitsubishi Electric manages the entire building for maintenance as well as operates the 4th and 5th Floors for administrative activities. Mitsubishi Electric also reportedly manages all janitorial work. One trash receptacle/compactor was observed outside the northeast corner of the building. According to Ms. Carol Amour, Ware Disposal handles compactor maintenance annually. Ms. Amour reported that a hydraulic oil leak was fixed approximately one year ago. However, Golder observed significant oil staining beneath the entire compactor, with new apparent leakage observed.

2.3.2 Mitsubishi Automation Inc.

Mitsubishi Automation Inc. operates one tenant space on the 1st floor to the south of the main lobby as administrative offices for primarily the elevator service division. In addition to offices, one storage room is located on the south side of this tenant space (will be further discussed in Section 2.4.2).

2.3.3 Touro University International

Touro University International (Touro) is an on-line educational institution that operates the entire 3rd floor of the building. Touro has only been a tenant of the building for a couple months. This tenant space is used for administrative activities for the university and is still undergoing tenant improvements.

2.4 Hazardous Substance Storage

The subject property was primarily used for administrative activities. Janitorial cleaning products were stored in two general areas on the first floor of the building. Equipment and associated chemicals were also stored on the building roof. Material safety data sheets (MSDS) were reviewed for the janitorial products stored at Mitsubishi Electric. No current or former underground storage tanks were reported or observed on the site. No spills or stains of environmental significance were observed or reported in the janitorial product storage areas or on the roof.

2.4.1 1st Floor Janitor Closet

The following Easterday Janitorial Supply Company products were observed in 5-gallon containers in the janitor closet:

- One container of glass and mirror cleaner;
- One container of restroom cleaner;
- Two containers of all purpose cleaner;
- One container of neutral cleaner;
- One container of Pro-Guard pre-spray and spotter; and

- One container of stainless steel cleaner.

The remaining janitorial cleaning products included various spray cans and quart containers as well as three 1-gallon containers of all purpose cleaner.

2.4.2 1st Floor Mitsubishi Automation Storage Closet

The following janitorial products were observed in this room:

- Three 5-gallon containers of anti-static neutral cleaner; and
- One 1-gallon container of Soil-Solv cleaner.

2.4.3 Building Roof

One approximately 150-gallon diesel aboveground storage tank (AST) with the diesel generator unit was observed in the central circular portion of the roof. According to Frank Figueroa, Mitsubishi Electric's maintenance engineer, diesel is brought to the roof in 5-gallon containers for AST replenishment. Mr. Figueroa indicated that the generator is serviced monthly with a major maintenance overhaul conducted annually. No secondary containment was observed surrounding the AST and generator. No leaks or stains were observed on the roof surrounding the generator and AST. According to Ms. Carol Amour, Facilities Supervisor for Mitsubishi Electric, the generator is permitted with the South Coast AQMD. See Section 3.2.5 for more information regarding the AQMD permit.

One Evapco Cooling Tower (chiller) was observed in the central circular portion of the roof. One 30-gallon container of Chem Pro 3030C [non-acid, non-chromate corrosion inhibitor (phosphonate)] was located adjacent to the tower and is automatically fed into the chiller. Golder reviewed the MSDS sheet, which was provided by Chem Pro Laboratories, Inc. The hazardous component of this chemical is sodium hydroxide. No leaks or stains were observed surrounding the container storage and no microbial growth was observed surrounding the cooling tower.

2.5 Review of Adjoining Properties and Surrounding Areas

A curbside review and limited walk-through of exterior areas accessible to the public were conducted of the adjoining properties during the site reconnaissance to ascertain whether there were any environmental concerns that could potentially impact the subject property. The subject property was located in an area of primarily commercial and light industrial businesses.

North: The subject property was bordered to the north by a former Southern Pacific Railroad right-of-way followed by businesses along Corporate Avenue. Branch Flowmetrics (5556 Corporate), Moving Air Inc. (5576 Corporate), HLM Printing and Labeling (5596 Corporate), and a business complex (5606-5736

Corporate) were located to the northwest, north-northwest, north, and northeast of the subject property, respectively. The business complex comprised of The Whipple Company (5606 Corporate), Automation Controls (5616 Corporate), Yaskawa Electric America, Inc. (5626 Corporate), Motoman Inc. (5636 Corporate), Vacant tenant space (5646 Corporate), Kitamura Machinery, West Coast Branch (5656 Corporate), Horizon Foods (5666 Corporate), Daiichi Jitsuggo (America) Inc. (5676 Corporate), Quest Diagnostics (5686 Corporate), Managed Care Innovations Inc. (5696 Corporate), Hyundai Electronic America (5716 Corporate), KTS Services Inc. Bus. Com. Serv. (5726 Corporate), Geotechnical Professional Inc. (5736 Corporate). No environmental concerns were noted from the facility drive-by observations.

East: The adjacent eastern property (5757 Plaza Drive) operates under three tenants (Jacobs Engineering, PacifiCare, and Mitsubishi). Jacobs Engineering and PacifiCare Secure Horizons operate the office space. Mitsubishi operates the warehouse space, which stores some hydraulic oils for the Elevator Division's off-site service calls. No environmental concerns were noted from the exterior of the building.

South: PacifiCare Secure Horizons was located adjacent to the southeast of the site, across Plaza Drive. Bandai America, Inc., a toy company, was located adjacent to the southwest of the subject property. No environmental concerns were noted from the facility drive-by observations.

West: Vertex Standard was located at 10900 Walker Street, adjacent to the west of the subject property. A vacant vegetative parcel was observed adjacent to the north of Vertex Standard and adjacent to the west-northwest of the subject property. No environmental concerns were noted from the facility drive-by observations.

2.6 Sewer/Septic System

Based on site observations, there was no evidence of an active septic system on the subject property. Sewer manholes were observed throughout the subject property. According to Marsha at the City of Cypress Building and Safety Department, sanitary sewer service was first provided to the site in June 1990. One floor drain was observed inside the former 1st floor kitchen preparation area. This drain is reportedly connected to the sanitary sewer. No activities are currently conducted in the vicinity of this floor drain.

2.7 Storm Drainage System

During the site reconnaissance, Golder observed curbside storm drains along the eastern, southern, and western perimeters of the subject property. The curbside storm drains are connected to the municipal storm drain system maintained by the City of Cypress.

2.8 Water Supply

Drinking water is supplied to the subject property by the Southern California Water Company, Los Alamitos Service Area (SCWC). The city obtains a small portion of its water from twenty operating wells pumping from the Orange County Groundwater Basin. The remaining portion of the total potable water is purchased from the Metropolitan Water District of Southern California. Golder received a copy of the most recent SCWC water quality report (2001) to determine compliance with the federal and state water quality standards. According to the report, water supplied to the site meets all existing state and federal standards. A copy of the report is included in Appendix E.

2.9 Polychlorinated Biphenyl Electrical Equipment

Southern California Edison (SCE) provides electric power to the subject property. One pad-mounted electrical transformer (P5379876) was observed on the southwest side of the subject property. No leakage or staining was observed surrounding the transformer. Golder contacted Mr. Brian Smith of SCE to determine the PCB content of the transformer insulating fluid. Mr. Smith indicated that transformer P5379876 was installed at the site in September 2000 and the likelihood of the transformer insulating liquid containing polychlorinated biphenyls (PCBs) was low.

Fluorescent light fixtures were observed throughout the subject property. Light ballasts manufactured after 1979 are generally labeled with "No PCB" or similar designation. Any ballast that is not labeled as to PCB-content must be considered as PCB-contaminated electrical equipment. The handling and disposal of PCB-contaminated electrical equipment must be conducted in accordance with applicable federal, state, and local regulations. Golder recommends that all removed fluorescent light ballasts be inspected for labeling, damage, and leaks, and handled accordingly.

2.10 High Voltage Transmission Lines

No high voltage transmission lines were observed on, crossing over, or adjacent to the subject property.

2.11 Pits, Ponds, and Lagoons

No pits, ponds or lagoons were observed or reported on the subject property.

2.12 Wetlands

No wetlands were observed on or near the subject property. The National Wetlands Inventory Map information provided in the Environmental Data Resources, Inc. (EDR) report did not identify any wetlands on or adjacent to the subject property.

2.13 Floodplains

Flood area information provided by EDR indicated that the site is located within the 500-year flood zone of the San Gabriel River. This area is considered flood plain zone X by the City of Cypress. Flood plain zone X does not require flood insurance for property owners.

2.14 Physical Setting Analysis

The subject property is located within the County of Orange, California, at an elevation of approximately 36 feet above mean sea level (MSL) according to the Los Alamitos, California Topographic Quadrangle (1964, Photo-revised 1972). According to the topographic map, the general topographic gradient slopes gently to the southwest towards the San Gabriel River.

The Coyote Creek (northern tributary of the San Gabriel River) is located approximately 2.8 miles to the west of the subject property. Small bodies of water were observed on the topographic map approximately 0.5 miles southwest and 0.6 miles northwest of the subject property.

The subject property lies within the Los Angeles-Orange County Coastal Plain Aquifer System, which is bordered on the north and east by the Santa Monica Mountains and Puente Hills, on the south by the San Joaquin Hills, and on the west by the Pacific Ocean (USGS, *Groundwater Atlas of the United States, California, Nevada)*. The subject property is underlain by unconsolidated alluvial deposits (USGS). Geotechnical borings conducted as part of a former investigation at the site indicated that sands, silty sands, sandy silts, and silty clays were observed beneath the site (Dames & Moore, 1999).

According to the Orange County Water District (OCWD) November 2001 Groundwater Contour Map for North County, regional groundwater has been reported at depths of approximately 45 feet below mean sea level (approximately 80 feet below ground surface-bgs). Data provided in a former site report (*Structural Review for Mitsubishi Warehouse-* John A. Martin & Associates) indicated that a perched water-bearing zone was encountered at approximately 6 to 6.5 feet bgs (Dames & Moore, 1999).

3.0 INVESTIGATIVE FINDINGS

3.1 Environmental Database Review

The following databases were researched by Environmental Data Resources, Inc. (EDR) of Southport Connecticut. The EDR report provides a summary and a location map of all database-listed sites that were within the specified search distances. The EDR report is included in Appendix E. Golder evaluated and synthesized the information from the EDR report and the site reconnaissance in order to provide the information detailed in this section.

Golder requested a file review at the Santa Ana Regional Water Quality Control Board (RWQCB) for those listed facilities identified on the subject property. If off-site facilities with a high potential to adversely affect the subject property, based on close proximity and available information from the EDR report, were identified, Golder requested a file review at the RWQCB. No records were on file for the subject property and none of the surrounding properties was deemed to present a high potential to adversely affect the subject property.

3.1.1 Federal National Priorities Listing (NPL) – Environmental Protection Agency Superfund List

The NPL is a subset of the United States Environmental Protection Agency's (USEPA) Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) and lists over 1,200 sites that are ranked as high priority for cleanup under the Superfund program. Neither the subject property nor other properties within a one-mile search distance of the subject property were listed on the Federal NPL. Source: NPL database updated January 29, 2002.

3.1.2 USEPA - Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) List

The CERCLIS list is a compilation of known and suspected uncontrolled or abandoned hazardous waste sites which are, or were, under investigation by the USEPA but have not been elevated to the status of a NPL site. Neither the subject property nor other properties within a one-half mile search distance of the subject property were listed in the CERCLIS database. Source: USEPA CERCLIS database updated February 12,2002.

3.1.3 USEPA - Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS), No Further Remedial Action Planned (NFRAP) List

The CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA. CERCLIS-NFRAP sites may be sites where after an initial investigation, no contamination was found, contamination was removed quickly, or contamination was not serious enough to warrant Federal Superfund or NPL action. Neither the subject property nor surrounding properties within a one-quarter mile search distance were listed in the CERCLIS-NFRAP database. Source: USEPA CERCLIS-NFRAP database updated February 14, 2002.

3.1.4 Resource Conservation and Recovery Information System (RCRIS)

The Resource Conservation and Recovery Act (RCRA) program identifies and tracks hazardous wastes from the point of generation to the point of disposal. The RCRIS database tracks those facilities that treat, store, and/or dispose of hazardous materials as defined by RCRA (referred to as TSD facilities). The RCRIS CORRACTS database identifies TSD facilities that have conducted, or are currently conducting, corrective action(s) as regulated under RCRA. The RCRIS Generators database tracks large and small quantity generators of hazardous waste. The RCRA Administrative Action Tracking System (RAATS) database, which maintains records of enforcement actions issued under RCRA for major violators, is included in the regulatory research report.

As summarized in the following table, the subject property was not listed as a hazardous waste generator, but seven surrounding properties within a one-quarter mile radius were listed as hazardous waste generators in the RCRIS database. Neither the subject property nor surrounding properties within a one-mile search distance appeared as either TSD facilities or CORRACTS facilities. Source: RCRIS database, dated March 22, 2002.

Property Name and Address	Proximity	Classification/Status
Precision Ferrites & Ceramics 5576 Corporate Drive	682 feet north	Small-quantity generator with no reported violations.
Linotype Hell Company 5646 Corporate Avenue	803 feet north-northeast	Small-quantity generator with no reported violations.
Mitsubishi Electric Sales America, Inc. 5757 Plaza Avenue	833 feet east-southeast	Small-quantity generator with no reported violations.
McDonnell Douglas (now Boeing) 10473 Progress Way	907 feet north-northwest	Small-quantity generator with no reported violations.
Kayaba Corporation 5790 Katella Avenue	942 feet south-southeast	Small-quantity generator with no reported violations.
Clayton Environmental Consultants (now Geotechnical Professionals, Inc.) 5736 Corporate Avenue	1,132 feet north-northeast	Small-quantity generator with no reported violations.
Smit J.K. Sons Inc. 5554 Market Place	1162 feet north-northwest	Small-quantity generator with no reported violations.

These hazardous waste generators did not have listed violations and were not listed on other databases that denote a release to the environment. Accordingly, they do not appear to present an environmental concern to the subject property.

3.1.5 Emergency Response Notification System (ERNS) Database

The Emergency Response Notification System (ERNS) is a national database used to collect information on reported releases of oil and hazardous substances. The subject property was not listed on the ERNS database. Source: ERNS database updated December 31, 2000.

3.1.6 AWP Database

California DTSC's Annual Workplan (AWP), formerly BEP, identifies hazardous substance sites targeted for cleanup. Neither the subject property nor other properties within a one-mile search distance of the subject property were listed in the AWP Database. Source: AWP database, updated November 8, 2000.

3.1.7 Cal-Sites Database

The Cal-Sites database, formerly known as ASPIS, contains both known and potential hazardous substance release sites. Neither the subject property nor surrounding properties within a one-mile search distance were listed in the Cal-Sites database. Source: Cal-Sites database, updated October 1, 2000.

3.1.8 California Hazardous Materials Incident Report System (CHMIRS) Database

The California Hazardous Materials Incident Report System (CHMIRS) contains information on reported hazardous material incidents (i.e., accidental releases or spills). The list has not been updated since 1994. Neither the subject property nor surrounding properties within a one-mile search distance were listed in the CHMIRS database. Source: CHMIRS database, updated December 31, 1994.

3.1.9 Notify 65 Database

Notify 65 records contain facility notifications about any release that could impact drinking water and thereby expose the public to a potential health risk. The data comes from the State Water Resources Control Board's Proposition 65 database. Neither the subject property nor properties within a one-mile search distance of the subject property were listed in the Notify 65 database. Source: Notify 65 database, updated October 21, 1993.

3.1.10 Toxic Pits Cleanup Act Sites

The Toxic Pits Database identifies sites suspected of containing hazardous substances where cleanup has not yet been completed. Neither the subject property nor surrounding properties within a one-mile search distance were listed in the Toxic Pits database.

3.1.11 Solid Waste Facilities/Landfills (SWIS) Solid Waste Information System

The Solid Waste Information System (SWIS) contains information on active, closed, and inactive landfills. Such records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. These may be inactive or active facilities or open dumps that failed to meet RCRA Section 2004 criteria for solid waste landfills or disposal sites. The data comes from the Integrated Waste Management Board's Solid Waste Information System database. Neither the subject property nor surrounding properties within a one-half mile search distance were listed in the SWIS database. Source: SWIS database, updated March 15, 2002.

3.1.12 Waste Management Unit Database (WMUDS)/SWAT

The Waste Management Unit Database System is used for program tracking and inventory of waste management units. Neither the subject property nor the surrounding properties within a one-half mile radius

were listed in the WMUDS/SWAT database. One site was listed within a one-half mile search distance of the subject property in the WMUDS/SWAT database. Source: SWAT database, updated April 1, 2000.

3.1.13 Cortese Database

The Cortese database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material, sites with USTs having a reportable release, and all solid waste disposal facilities from which there is a known migration. Source: CAL EPA/Office of Emergency Information, updated April 1, 2001. The subject property was not listed on the Cortese Database. There were eleven sites within one mile of the subject property. Eight of the nine remaining sites are located more than one-half mile from the subject property and have been signed off with remedial action completed or deemed unnecessary. The remaining Cortese facilities are discussed in the following table.

Name/Address	Proximity	Affected Media/Cleanup Status
Innabi Union 76 #1 (aka Union Oil Service Station 5511 and TOSCO-76 Station #5511) 5100 Katella Avenue	1,492 feet southwest	Gasoline-impacted groundwater reported in May 1987. In August 1999, Final Remediation Plan submitted. Proposed to remove contaminated soil and floating free product, and pump and treat groundwater to remove dissolved contaminants. Notice of violation issued to uncooperative responsible parties.
Unocal Service Station #5176 (aka Union Oil Service Station 5176) 5999 Cerritos Avenue	2,479 feet northeast	LUST Incident 86UT35-gasoline-impacted groundwater (release date not reported). Remedial action (cleanup) in progress as of August 1990. LUST Incident 91UT43-gasoline-impacted groundwater (leak discovery in October 1990-*geotracker website*). Signed off, remedial action completed or deemed unnecessary in August 1995.
Cypress Car Wash Company 9971 Valley View Street	4,838 feet north-northeast	LUST entry reported-no details reported in EDR. LUFT geotracker website listed this site (case # 98UT049) as a leaking gasoline UST affecting soil (discovered in July 1998). The last regulatory entry date was September 1998.

Based on the distance from the subject property and/or regulatory status, the Cortese facilities do not appear to present an environmental concern to the subject property.

3.1.14 Leaking Underground Storage Tank (LUST) Information System

Golder reviewed the Leaking Underground Storage Tank (LUST) Sites List for sites with reported leaking underground storage tanks (LUSTs) located within one-half mile of the subject property. Source: Leaking

Underground Storage Tank (LUST) Information System, State Water Resources Control Board, updated January 17, 2002. The subject property was not listed as a LUST facility. Four sites within one-half mile of the subject property were listed as LUST facilities. Of these, two are discussed above as Cortese facilities. The remaining two LUST facilities are discussed below in the following table.

Name/Address	Proximity	Affected Media/Cleanup Status
Equilon Enterprises LLC 6000 Cerritos Avenue	2,471 feet northeast	Waste oil and gasoline-impacted groundwater encountered (release date not reported); Post remedial action monitoring in progress as of September 1992.
Texaco Service Station 6000 Cerritos Avenue	2,479 feet northeast	Waste oil-impacted waste oil reported in September 1987. Signed off, remedial action completed or deemed unnecessary

Due to the regulatory status of these two facilities and their distances to the subject property, these sites do not appear to present an environmental concern to the subject property.

3.1.15 CA Bond Expenditure Plan (BEP)

The Department of Health Services developed a site-specific expenditure plan as the basis for the appropriation of Hazardous Substance Cleanup Bond Act funds. Neither the subject property nor properties within a one-mile search distance of the subject property were listed in the BEP database. Source: BEP database, updated January 1, 1989.

3.1.16 Underground Storage Tank (UST) Sites List, Historical and Active

Golder reviewed the Underground Storage Tank Sites Lists for sites with registered historical and active underground storage tanks (USTs) adjoining the subject property and to verify the subject property status regarding registered USTs. The subject property was not listed has having a registered UST. No sites were listed on the UST database within a one-quarter mile radius of the subject property. Union Oil Service Station 5511 (aka Innabi Union 76 #1) property was listed on both the CA FID and HIST UST databases. This facility is listed as an active UST location and as historically having a waste oil UST. There is no data pertaining to the removal of the waste oil UST. Union Oil Service Station 5511 was also cross-listed as a Cortese/LUST facility and is discussed above. Sources: UST Database, updated January 17, 2002, CA FID Database, updated October 31, 1994, and HIST UST database, updated October 15, 1990.

3.1.17 Hazardous Waste Information System (HAZNET)

The data is compiled from copies of hazardous waste manifests received each year by the Department of Toxic Substances Control (DTSC). Inclusion in this database does not imply any environmental violations. The subject property and nine properties with a one-quarter mile search distance were listed on the HAZNET database. Source: HAZNET Database, updated December 31, 2000. The HAZNET sites are presented in the following table.

Property Name and Address	Proximity	Category/Disposal Method
Mitsubishi Elevator Inc. 5665 Plaza Drive	Subject Property	Paint Sludge/Transfer Station Other Organic Solids/Transfer Station
Precision Ferrites & Ceramics 5576 Corporate Drive	682 feet north-	Unspecified sludge waste/Disposal, landfill Unspecified aqueous solution/Recycler Unspecified aqueous solution/treatment, tank Waste oil and mixed oil/Recycler
HLM Labeling Incorporated 5596 Corporate Avenue	682 feet north	Oxygenated solvents/Recycler Halogenated solvents/Recycler
Linotype Hell Company 5646 Corporate Avenue	803 feet north-northeast	Photochemicals/photoprocessing waste/Recycler
Mitsubishi Electric Sales America, Inc. 5757 Plaza Avenue	833 feet east-southeast	Empty containers/Not reported Other inorganic solid waste/Not reported Aqueous solution with less than 10% total organic residues/Treatment, tank Off-specification, aged, or surplus organics/Recycler
Kitamura Machinery Sales Inc. 5656 Corporate Avenue	838 feet north-northeast	Waste oil and mixed oil/Recycler Unspecified oil-containing waste/Recycler
Focus/MRL 10743 Progress Way	907 feet north-northwest	Oxygenated solvents/Transfer Station Unspecified organic liquid mixture/Not reported Unspecified organic liquid mixture/Transfer Station Unspecified organic liquid mixture/Treatment, incineration
Exhibit Group Giltspur Southern California 5560 Katella Avenue	1,053 feet southwest	Liquids with halogenated organic compounds >1,000 mg/L/Recycler
Magna Tool Inc. 5594 Market Place	1,115 feet north	Oil/water separation sludge/Recycler Unspecified oil-containing waste/Recycler
Kaller Inc. 5573 Market Place	1,137 feet north-northwest	Waste oil and mixed oil/Recycler Oil/water separation sludge/Recycler

The subject property was listed under Mitsubishi Elevator Inc. as disposing of paint sludge and other organic solids through a transfer station. According to Ms. Carol Amour, Facilities Supervisor for Mitsubishi Electric, no hazardous wastes have been stored at the subject property. Given that these facilities did not appear on databases that denoted a release to the environment, they are not considered to pose an environmental concern to the subject property.

3.2 Local Agency and Historical Records Review

3.2.1 City of Cypress Building Department

Golder reviewed records for the subject property at the City of Cypress Building Department. The original address of the site during construction was listed as 5605 Plaza Drive. No previous buildings were reportedly associated with this address. The City of Cypress issued an approval letter to Mitsubishi Electric America on April 17, 1991 to change the site address from 5605 Plaza Drive to 5665 Plaza Drive. The earliest construction permit on file (# 55168) for the subject property was dated June 26, 1990 under the owner Shuwa Investments for the building shell. Underground sprinklers were permitted for installation (# 55651) under Mitsubishi in September 1990. The original certificate of occupancy was issued for the 5-story building in October 17, 1991 under Shuwa Investments. A permit to construct a three-foot high retaining wall (#76842) was issued in December 2000 under the owner LBA. LA Cellular Telephone Company was listed as a tenant on the 2nd floor of the building in 1994. Several tenant improvements permits were also on file. No significant environmental concerns were identified in the course of the permit review. A copy of the certificate of occupancy is included in Appendix D.

3.2.2 Munger Map Book

The Munger Map Book for California-Alaska Oil and Gas Fields (May 1992) provides data on wells from the California Department of Conservation, Division of Oil and Gas, oil operators, Munger oilogram, and other sources. Map number W-65, which includes the subject property area, was reviewed for the presence of oil and/or gas wells on the subject property. No oil/gas wells were observed or reported for the subject property. A copy of the Munger Map is included in Appendix E.

3.2.3 Orange County Fire Authority

The Orange County Fire Authority was contacted for information concerning underground storage tanks (USTs) or hazardous material incidents on the subject property. The OCFA provided Golder with a business report, which indicated that the site only receives routine fire inspections. The last fire inspection of the subject property was conducted in August 1998 with no reported violations. Violations relating to

housekeeping were issued by the OCFA during a September 4, 1997 inspection. These violations were reportedly corrected by September 30, 1997. One OCFA Place of Assembly permit (for 50-299 occupants) was issued for the site in July 1998. This permit expired in July 1999. According to the OCFA report, there were no hazardous materials on record at the site. The OCFA inspection report is included in Appendix E.

3.2.4 Orange County Health Care Agency

The Orange County Health Care Agency (OCHCA) was contacted for information regarding hazardous waste generator files, UST files, site cleanup files, and Proposition 65 reports. OCHCA indicated that no files exist for the subject property address. A copy of the response is included in Appendix E.

3.2.5 Santa Ana Regional Water Quality Control Board

The Santa Ana Regional Water Quality Control Board (RWQCB) was contacted for information about the subject property. Ms. Annette Subriar of the RWQCB informed Golder that no records were on file for the subject property. A telephone contact memorandum is included in Appendix E.

3.2.6 South Coast Air Quality Management District

The South Coast Air Quality Management District (AQMD) was contacted for information regarding air permits, notices of violations, and site inspection reports for the subject property. The AQMD sent Golder a copy of the Permit to Construct/Operate (# D52987) the roof-mounted emergency diesel-fuel generator unit, initially issued in May 1992. The permit limits the operation of the unit to no more than 125 cumulative hours per year. One AQMD violation notice was issued to Mitsubishi on August 19, 1999 for failure to maintain the generator operating log (including date of use, run time, reason for use, and amount of diesel used). The last AQMD inspection date was listed as January 1, 2001. The AQMD inspector indicated that the generator runs automatically for 15 to 20 minutes each week. The engine ran for a total of 4.2 hours from 2000 to 2001 and was in compliance with the allowable cumulative hours of operation. The inspection report also indicated that diesel is bought by Mitsubishi at a local service station in 5-gallon containers, which are carried to the roof when needed to refill the diesel tank. The permit to operate the generator and the AQMD inspection report are included in Appendix E.

3.2.7 California Department of Toxic Substances Control

The California Department of Toxic Substances Control (DTSC) was contacted for information regarding the subject property. DTSC indicated that no files exist for the subject property address. A copy of the response is included in Appendix E.

3.2.8 U.S. Environmental Protection Agency, Region IX

The U.S. Environmental Protection Agency (EPA), Region IX was contacted for information regarding the subject property. EPA indicated that no CERCLIS files exist for the subject property address. A copy of the response is included in Appendix E.

3.3 Historical Records Review and Summary

The following historical sources were reviewed:

- Historical aerial photographs for the years 1947, 1953, 1968, 1977, 1989, and 1994 from EDR. Copies of these photographs are included in Appendix B.
- Current topographic maps (1964, photo-revised 1972 and 1981) reviewed by Golder and historical topographic maps for the years 1935, 1950, and 1964 reviewed by Dames & Moore (1999). The current 1981 topographic map is included as Figure 1.
- Historical Chain of Title Report from Nationwide Environmental Title Research, June 11, 2002. The earliest recorded document is from 1953.
- Previous environmental report as referenced in Section 3.5 of this report.
- Historical City Directory review (provided in Dames & Moore, 1999 report) for the time period 1924-1986.
- Sanborn Maps were not available for the subject property and surrounding areas. A copy of the preliminary no coverage sheet is included in Appendix B.

The historical sources listed above were used to develop a historical summary of the subject property.

1924-1953

The 1935 topographic map reportedly indicated that the site and the surrounding vicinity were undeveloped (Dames & Moore, 1999). The 1947 aerial photograph shows the site as agricultural land. The surrounding adjacent properties also appeared to be in agricultural production. Irrigation piping appeared to be evident on properties to the north, east, and south of the site. According to historical city directory search by Dames & Moore (1999), the site address and surrounding addresses were not listed in the 1924, 1926, 1931, 1936, 1941, 1947, and 1951 City Directories. The 1953 aerial photograph depicted an airstrip approximately 0.5 miles southwest of the site, which was associated with the Naval Reservation.

Buildings, which appear to be associated with agricultural operations, were observed 580 feet to the north and 1,000 feet to the southwest of the subject property.

1954 to 1976

According to historical city directory search by Dames & Moore (1999), the site address and surrounding addresses were not listed in the 1955, 1959, 1964, 1969, and 1974 City Directories. The 1968 aerial photograph shows the subject property and surrounding properties as undeveloped, agricultural lands. A golf course was observed south of Katella Avenue, approximately 1,050 feet southeast of the site. An associated pond for the golf course was observed 0.3 miles southwest of the subject property. The 1972 topographic map shows a pumping station and tank farm with 53 tanks, located approximately 0.85 miles northwest of the subject property. This tank farm was reportedly listed as "Texas Oil Tank Farm" in the 1935 topographic map (Dames & Moore, 1999). No buildings are depicted on the subject property in the 1972 or 1981 topographic maps. The surrounding adjacent areas still appeared undeveloped. The Naval Reservation has been renamed the Los Alamitos Armed Forces Reserve Center. The general vicinity appeared to be primarily residentially and commercially developed by this time.

1977-1988

The subject property and surrounding adjacent properties still appear undeveloped on the 1977 aerial photograph. Walker Street was observed on this photograph to the west of the site. A portion of the Los Alamitos Racetrack was observed approximately 0.3 miles northwest of the subject property. Several industrial-type buildings were observed approximately 1,000 feet southwest of the subject property, to the south of Katella Avenue, on the 1981 topographic map. According to historical city directory search by Dames & Moore (1999), the site address was not listed in the 1980 and 1986 City Directories. The surrounding properties to the east and southeast (Mitsubishi Electric Sales of America-5757 Plaza Drive and PacifiCare-5995 Plaza Drive, respectively) were listed in the 1986 City Directory (Dames & Moore, 1999). Surrounding adjacent properties appear similar to the 1989 photograph.

1989 to the Present

The 1989 aerial photograph shows the subject property already under construction. This is a discrepancy from the building permit records reviewed at the City of Cypress, which indicated that the permit to construct the building shell was issued in June 1990. The Certificate of Occupancy for the 5-story subject property building was issued in October 1991 to Shuwa Investments. This discrepancy does not appear to present an environmental concern for the subject property. The 1989 aerial photograph also shows the adjacent current building footprints to the north, east, and southeast of the site. Plaza Drive was observed adjacent to the southeast of the subject property. A portion of the former golf course to the south has been

graded for agricultural use. The surrounding vicinity to the north and east is primarily commercial and light industrial facilities. The 1994 aerial photograph shows the subject property with its current building footprint. Adjacent properties to the southwest and west appeared to still be undeveloped in the 1989 and 1994 aerial photographs. These properties appear to have been developed with their current building footprints some time after 1996 (Dames & Moore, 1999). Agricultural fields were observed to the south of the site, across Katella Avenue. The Armed Forces Reserve Center airstrip was still visible in this area.

3.4 Chain of Title

The Chain of Title Search (NETR-Real Estate Research & Information, June 11, 2002) indicated the subject property was owned by the following entities:

- Prior to 1940 – 1953: Harry L. Burnham
- 1953-1959: Consolidated Pacific Investment Company (Grant Deed 3-10-1953)
- 1959-1980: The Prudential Insurance Company (Grant Deed 1-29-1959)
- 1980-1985: McDonald Douglas Corporation (Corporation Grant Deed 1-3-1980)
- 1985-1991: Shuwa Douglas Corporation (Grant Deed 11-19-1985)
- 1991-1999: SIC Finance, Inc., a California Company (Grant Deed 12-4-1991)
- 1999-Present: LBA-VF III, a Delaware limited liability company (Grant Deed 7-16-1999)

One of the recorded deeds lists McDonnell Douglas Corporation (incorrectly identified by NETR as McDonald Douglas) as the property owner from 1980 to 1985. McDonnell Douglas Corporation had been a major government aerospace contractor. The potential exists that McDonnell Douglas Corporation used the site for government aerospace contract work. However, based on the review of local agency files and previous environmental assessments, it does not appear that the subject property had been either developed by McDonnell Douglas Corporation or had been used as a storage area. Accordingly, no specific environmental concerns or use of hazardous substances and petroleum products were identified from the review of historical resources. There were no leases or environmental liens indicated for the subject property.

3.5 Previous Environmental Reports

The following previous environmental report was provided by Layton-Belling & Associates:

- *Phase I Environmental Site Assessment – Mitsubishi Office Building, 5665 Plaza Drive, Cypress, California,* prepared for Layton-Belling & Associates by Dames & Moore, July 8, 1999.

Dames & Moore performed the following tasks: document review, map review, interviews with people knowledgeable of site operations, limited adjacent property review, and site reconnaissance as part of their

1999 assessment. Dames & Moore did not sample radon gas, indoor air quality, lead-based paint, lead in drinking water, asbestos, soil, groundwater, or wetlands as part of their investigation. The following is a summary of Dames & Moore's findings:

- The current 5-story building on the subject property was constructed in 1991 as a commercial office building. Prior to 1989, the subject property was reportedly in agricultural production as evidenced on historical aerial photographs. The 1935 topographic map reportedly indicated a Texas Oil Tank Farm located approximately 0.75 miles northwest of the site.

- A *Structural Review Report for Mitsubishi Warehouse* (John A. Martin & Associates), provided by the Shuwa property management office to Dames & Moore, indicated that site groundwater was reportedly encountered during geotechnical boring at 6 to 6.5 feet bgs. Subsurface soils encountered during the geotechnical investigation reportedly included sands, silty sands, sandy silts, and silty clays.

- Dames & Moore noted the following chemicals during their site visit: one 55-gallon drum and five 1-gallon containers of water treatment chemical (Chem Pro 3030C); various small quantities of cleaning supplies, and various small quantities of maintenance supplies. No staining was observed surrounding the trash receptacle/compactor on the east side of the building.

- One 150-gallon diesel AST associated with the emergency generator was observed on the roof. Dames & Moore noted that the AST was in good condition.

- Due to the building age (1991), Dames & Moore indicated that the potential for asbestos-containing materials was too low to warrant sampling.

- Dames & Moore reviewed historical environmental databases through EDR. Their review of the EDR Report indicated that potential for surrounding properties to create a recognized environmental condition (REC) at the subject property was low.

- Dames & Moore contacted the RWQCB, DTSC, State Fire Marshall, Orange County Health Care Agency, Orange County Sanitation Districts, South Coast AQMD, and OCFA. No environmental files were reported for the site at the agencies listed above. The OCFA had an annual fire inspection, but no record of hazardous materials storage.

Dames & Moore identified no recognized environmental conditions in connection with the subject property and did not recommend that further investigations be conducted.

3.6 Environmental Sampling

3.6.1 Asbestos-Containing Materials (ACM)

Golder conducted a limited asbestos survey of the subject property. The asbestos survey portion of the ESA was limited to identifying and locating broad categories of ACM. The survey was performed to provide information used to identify immediate asbestos hazards and to develop recommendations as to the need for a more thorough survey and/or an operations and maintenance program. The survey was not an attempt to sample each homogeneous area or fully characterize each suspect material.

Golder conducted a floor-by-floor inventory of the building materials at the subject property. No previous asbestos surveys were reported for the site according to LBA personnel or the previous Phase I report (Dames & Moore, 1999). Bulk samples were collected from representative areas in the various tenant spaces, roof tops, storage areas, and common areas. Bulk sampling was conducted in accordance with procedures outlined in the Asbestos Hazard Emergency Response Act (40 CFR 763.86, Sampling). The procedure requires the inspector to select random sampling locations from homogeneous materials suspected to contain asbestos.

A homogeneous material is defined as an area of surfacing material, thermal system insulation, or miscellaneous materials that is uniform in color and texture, and appears to be identical in all aspects. The homogeneous materials that were sampled in this survey included roofing components, various resilient flooring, drywall/tape/compound, and lay-in ceiling panels. The materials observed were in good condition. Unsampled suspect asbestos-containing construction materials may be located within walls, ceiling cavities, and other non-accessible areas. Precautions should be used in relation to these unsampled materials until proper sampling and analysis have determined their asbestos content.

ACM bulk samples were analyzed using polarized light microscopy (PLM) in accordance with the EPA Interim Method of Asbestos in Bulk Insulation Samples as defined in 40 CFR 763, Appendix E to Subpart E (EPA Method 600/R-93-116). Environmental Management Consultants, Inc. of Phoenix, Arizona, performed the PLM analysis of the samples.

Sample No.	PLM Analysis Location/Description	Results (% Asbestos)
1-5665	20" by 5' acoustic ceiling panel (ACP) outside 5th floor smoking area	ND
2-5665	12" by 12" acoustic ceiling tile (ACT) in 5th floor hallway	ND
3-5665	12" by 12' beige resilient floor tile (RFT) and yellow mastic in central	ND

Sample No.	PLM Analysis Location/Description	Results (% Asbestos)
	break room (5th Floor)	
4-5665	12" by 12" black specked RFT and yellow mastic, 5th Floor copy room	ND
5-5665	12" by 12" beige RFT in 4th Floor north office area	ND
6-5665	20" by 5' ACP in 4th Floor east office area	ND
7-5665	12" by 12" ACT in 4th Floor Mail Room	ND
8-5665	12" by 12" black RFT and yellow mastic in 4th Floor telecom room	ND
9-5665	12" by 12" ACT in 4th Floor north of elevator	ND
10-5665	12" by 12" black RFT and yellow mastic in 1st Floor east hallway	ND
11-5665	12" by 12" beige RFT in 2nd Floor east office	ND
12-5665	Drywall/joint compound in 2nd Floor east office area	ND
13-5665	Drywall/joint compound in 2nd Floor north office	ND
14-5665	Drywall/joint compound in west lunchroom- 2nd Floor	ND
15-5665	20" by 5' ACP in west office area- 2nd Floor	ND
16-5665	2' by 4' ACP in west lunchroom-2nd Floor	ND
17-5665	12" by 12" gray and tan RFT and yellow mastic in west lunchroom- 2nd Floor	ND
18-5665	12" by 12" gray and tan RFT and yellow mastic in west lunchroom- 2nd Floor	ND
19-5665	12" by 12" gray and tan RFT and yellow mastic in west lunchroom- 2nd Floor	ND
20-5665	2' by 4' ACP in west lunchroom- 2nd Floor	ND
21-5665	2' by 4' ACP in west lunchroom- 2nd Floor	ND
22-5665	Roof field cut 1 (Layers 1 through 3)	ND
23-5665	Roof field cut 2 (Layers 1 through 3)	ND
24-5665	Roof field cut 3 (Layers 1 through 3)	ND
25-5665	Roof mastic 1 (Gray)	8% Chrysotile
26-5665	Roof mastic 2 (Gray)	8% Chrysotile
27-5665	Roof mastic 3 (Gray)	8% Chrysotile

A total of 27 bulk samples were collected from suspect ACM on the subject property. Laboratory analysis only indicated ACM (8% Chrysotile) in the gray mastic on the building roof. This material was in good condition and is considered to be nonfriable. This material is not considered likely to pose a potential health risk. The remaining materials sampled did not contain ACM.

The ACM identified should only be removed by qualified asbestos workers. Maintenance, construction, demolition, and repair personnel should be made aware of the presence of ACM, and instructed not to disturb or damage ACM unless properly qualified. Current federal and state regulations require that repair, renovation, or demolition of asbestos-containing materials must be conducted only by workers and contractors who have been properly trained in the correct handling of asbestos.

Golder's sampling and analysis does not constitute a full characterization of asbestos-containing materials that may be inaccessible in the buildings on the subject property (e.g., interior wall materials). Golder recommends that unsampled suspect material in inaccessible areas be presumed asbestos-containing

material until tested. Laboratory analytical reports and chain-of-custody documentation are contained in Appendix C.

3.6.2 Fungal Screening

In conjunction with the RREEF scope of work, Golder conducted a fungal screening as part of the environmental site assessment on the subject property. The objective of the fungal screening was to report conditions identified through limited interviews, document review, and physical observation of potential fungal growth from water intrusion or water leakage conditions at the subject property. Interior wall inspections and/or air sampling was not included in the scope of work. Golder observed HVAC systems, bathrooms, utility closets, landscaping, and interior ceilings and walls for roof leaks and water penetration. Additionally, tenants were questioned regarding evidence of fungal growth and odors, leaks, floods, or other conditions that could promote fungal growth. Ms. Carol Amour, Facilities Manager for Mitsubishi Electric, has been at the site since 1991 and reported no problems with water intrusion or water leakage within the last one year. Ms. Amour reported on minor window leaks that were reportedly fixed over one year ago. The following results of the Golder fungal screening follow:

Floor	Date	Location	Evidence of Water Staining	Evidence of Suspect Fungal Growth	Comments
1st	6/6/02	Elevator Area	Bulging wallpaper and water leak stains	None observed.	According to Ms. Carol Amour, this area was impacted by a leaking HVAC pipe on the second floor approximately 2 years ago. The bulging wallpaper does not appear to have been fixed since the leak occurred.
2nd	6/6/02	Janitor's Closet	Water stains down walls.	Suspect fungal growth on drywall observed in two areas beside floor drain.	Appears to be water leakage from piping above, however, could also be impacted by improper use of drain (i.e. overflow conditions).
2nd	6/6/02	Women's Restroom	No water stains observed.	Suspect fungal growth on floor grout.	There was a slight musty odor in this vacant restroom.
2nd	6/6/02	Office/ Cubicle Areas	Water stained ceiling panels in various areas.	None Observed.	
3rd	6/6/02	Office/ Cubicle Areas	Water stained ceiling panels on west side of floor.	None Observed.	

Floor	Date	Location	Evidence of Water Staining	Evidence of Suspect Fungal Growth	Comments
4th	6/6/02	Office/Cubicle Areas	Water stained ceiling panels in various areas.	None Observed.	One office had a stained ceiling panel beside window. Possible water intrusion. Remaining stained ceiling panels were on interior portions of building.
4th	6/6/02	Janitor's Closet	Bulging drywall approximately 8 feet above ground.	None Observed.	Water stains were faintly visible on the drywall, which appeared to have been wet sometime in the past.
5th	6/6/02	Office/ Cubicle Areas	Stained ceiling panels in various areas.	None Observed.	

3.6.3 Carbon Monoxide (CO) and Carbon Dioxide (CO_2) Screening Tests

Golder conducted screening tests for carbon dioxide and carbon monoxide in representative building areas. The screening tests were performed using a Dräeger Accuro Multi Gas Detector bellows pump and Dräeger tubes specific for carbon monoxide and carbon dioxide. The measuring range for the carbon monoxide tubes was 2 to 60 parts per million (ppm). The measuring range for the carbon dioxide tubes was 100 to 3,000 ppm. The table below summarizes the results of the tests.

Location	Date Sampled[1]	CO Results (ppm)	CO_2 Results (ppm)
5th Floor outside smoking room; north side	6/6/02	0	300
5th Floor east office area	6/6/02	0	400
4th Floor east office area	6/6/02	0	350
4th Floor north office area	6/6/02	0	375
1st Floor Mitsubishi Automation office	6/6/02	0	450
3rd Floor Touro University; south office area	6/6/02	0	275

1. June 6, 2002 (Los Alamitos, CA): Actual Atmospheric Pressure= 1010 hPA (hectaPascals) as provided by www.wunderground.com.

Carbon dioxide and carbon monoxide levels can be indicators of ventilation problems inside a building. Golder's field screening results were compared to levels set by the American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE; Standard 62–1989). According to ASHRAE, carbon dioxide levels in office buildings should be kept at or below 800 ppm in office spaces. ASHRAE

also recommends that carbon monoxide levels in ventilation air meet the outdoor standard set by EPA of less than 9 ppm carbon monoxide for any 8-hour exposure period. All of the results were below the recommended ASHRAE maximum ambient indoor air levels for CO_2 and CO.

3.6.4 Lead in Drinking Water

Golder did not collect drinking water samples for lead analysis since the site was not used for residential purposes, as specified in the RREEF Scope of Work.

3.6.5 Radon

Golder did not collect radon samples, based on the RREEF Scope of Work for non-residential properties. Based on the designation of the subject site as EPA radon zone 3 (indoor average level of less than 2pCi/L) and the lack of subterranean spaces in the buildings, it appears unlikely that elevated radon levels would be present inside of the subject property buildings. Actual testing would be required to evaluate radon concentrations in the buildings.

3.6.6 Lead-Based Paint

Golder did not collect paint samples, based on the RREEF Scope of Work for non-residential properties. The paint observed in the subject property building appeared to be in good condition.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Golder has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Standard Practice E 1527-00 of the subject property located at 5665 Plaza Drive, Cypress, California. Any exceptions to, or deletions from, the Standard Practice are described in the corresponding sections of this report. This assessment revealed no evidence of Recognized Environmental Conditions in connection with the subject property.

The following potential environmental concerns with associated conclusions and recommendations are presented as a result of the environmental site assessment of the subject property:

- Twenty-seven bulk samples were collected from suspect ACM in the subject property building. Laboratory analysis indicated ACM in the gray mastic on the building roof. This material is considered nonfriable and was in good condition at the time of the survey. A limited Operations and Maintenance Plan should be developed for the subject property ACM.

- All five floors showed some evidence of prior water leakage from air conditioning piping located above the drop ceilings. Suspect fungal growth was observed in the 2nd Floor janitor closet drywall and the 2nd Floor women's restroom floor grout. Several ceiling panels were stained on each floor. Golder recommends the repair of all leaks and removal of all water damaged materials.

- Significant oil staining was observed surrounding the hydraulic trash compactor located outside the northeast corner of the site building. This area should be steam cleaned and better housekeeping and maintenance practices should be implemented in this area.

5.0 REFERENCES

- Dames & Moore, *Phase I Environmental Site Assessment, Mitsubishi Office Building, 5665 Plaza Drive, Cypress, California*, July 8, 1999.
- EDR Historical Aerial Photographs; 1947, 1953, 1968, 1977, 1989, and 1994.
- EDR-Radius Map with GeoCheck, *Mitsubishi, 5665 Plaza Drive, Cypress, CA 90630*, 7 June 2002.
- Interview with Mr. Frank Figueroa, Maintenance Engineer for Mitsubishi Electric & Electronics USA, Inc., on 6 June 2002.
- Interview with Ms. Carol Arnour, Facilities Manager for Mitsubishi Electric & Electronics USA, Inc., on 6 June 2002.
- LUFT geotracker website (geotracker.swrcb.ca.gov), reviewed June 11, 2002.
- Munger Map Book, *California-Alaska Oil and Gas Fields*, May 1992.
- NETR-Real Estate Research & Information, *Historical Chain of Title Report, Cypress Technology Center, 5665 and 5757 Plaza Drive, Cypress, California*, June 11, 2002.
- Orange County Water District, *Groundwater Contour Map, North County*, November 2001.
- U.S. Geological Survey (USGS), *7.5 Minute Topographic Quadrangle of Los Alamitos, California*, 1964 (photo-revised 1972).
- U.S. Geological Survey (USGS), *7.5 Minute Topographic Quadrangle of Los Alamitos, California*, 1964 (photo-revised 1981).
- USGS, *Groundwater Atlas of the United States, California, Nevada*, downloaded June 10, 2002.

Appendix D ENVIRONMENTAL AGENCY DATABASE SEARCH REPORT

Goodman
5757 Plaza Drive
Cypress, CA 90630

Inquiry Number: 6586541.2s
July 21, 2021

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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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 (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

5757 PLAZA DRIVE
CYPRESS, CA 90630

COORDINATES

Latitude (North):	33.8056680 - 33° 48' 20.40''
Longitude (West):	118.0331320 - 118° 1' 59.27''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	404371.7
UTM Y (Meters):	3740895.0
Elevation:	38 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5633745 LOS ALAMITOS, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140513
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
5757 PLAZA DRIVE
CYPRESS, CA 90630

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	MITSUBISHI ELEVATOR	5757 PLAZA AVE	HAZNET, HWTS		TP
A2	MITSUBISHI ELECTRIC	5757 PLAZA DR	FINDS, ECHO		TP
A3	TRANSWESTERN	5665 PLAZA DR	HAZNET, HWTS		TP
A4	MITSUBISHI ELEVATOR	5665 PLAZA DR	HAZNET, HWTS		TP
A5	MITSUBISHI ELECTRIC	5757 PLAZA DRIVE	HAZNET, HWTS		TP
A6	MITSUBISHI ELECTRIC	5757 PLAZA AVE	HAZNET, HWTS		TP
A7	RREEF MGMT CO INC	5665 PLAZA DR	HWTS		TP
A8	MITSUBISHI ELECTRIC	5757 PLAZA DR	EMI		TP
A9	MITSUBISHI ELECTRIC	5757 PLAZA DR	RCRA-SQG		TP
A10	CONTRACT APPLICATION	5757 PLAZA DR	HAZNET, HWTS		TP
Reg	LOS ALAMITOS ARMED F		DOD	Same	1621, 0.307, South
B11	PRECISION FERRITES &	5576 CORPORATE DR	RCRA-SQG, FINDS, ECHO, HAZNET, HWTS	Higher	95, 0.018, NW
B12	FOCUS DIAGNOSTICS	10743 PROGRESS WAY	RCRA-SQG, FINDS, ECHO	Lower	179, 0.034, WNW
B13		5575 CORPORATE AVE	AST	Higher	228, 0.043, NW
B14	CA-959 PHONESWITCH/H	5575 CORPORATE AVE	AST	Higher	228, 0.043, NW
C15	YASKAWA	5626 CORPORATE AVE	RCRA-SQG	Higher	287, 0.054, North
C16	MOBIL CORPORATION	5636 CORPORATE AVE 4	EDR Hist Auto	Higher	303, 0.057, North
C17	LINOTYPE HELL CO	5646 CORPORATE AVE	RCRA-SQG, FINDS, ECHO, HAZNET, HWTS	Higher	318, 0.060, North
D18	MARKEM IMAJE CORP	10800 VALLEY VIEW ST	RCRA NonGen / NLR	Higher	321, 0.061, East
D19	THE BOEING COMPANY	10800 VALLEY VIEW ST	ENVIROSTOR, CERS HAZ WASTE, Orange Co. Industrial...	Higher	321, 0.061, East
D20	OK INTERNATIONAL	10800 VALLEY VIEW ST	RCRA NonGen / NLR	Higher	321, 0.061, East
D21	COOK COMPRESSION A D	10800 VALLEY VIEW ST	RCRA NonGen / NLR	Higher	321, 0.061, East
D22	THE BOEING CO CYPRES	10800 VALLEY VIEW ST	RCRA NonGen / NLR	Higher	321, 0.061, East
C23	CAVOTEC USA, INC.	5665 CORPORATE AVE	CERS HAZ WASTE, HWTS	Higher	344, 0.065, North
C24	CAVOTEC USA INC	5665 CORPORATE AVE	RCRA NonGen / NLR	Higher	344, 0.065, North
C25	CAVOTEC DABICO	5665 CORPORATE AVE	RCRA-SQG, FINDS	Higher	344, 0.065, North
E26	CONSOLIDATED MEDICAL	10700 WALKER ST	RCRA-SQG	Lower	397, 0.075, WNW
E27	CONSOLIDATED MEDICAL	10700 WALKER ST	CERS HAZ WASTE, CERS	Lower	397, 0.075, WNW
F28	STATE OF CALIFORNIA	5796 CORPORATE AVENU	RCRA NonGen / NLR	Higher	408, 0.077, NNE
G29	LTP MODERN MACHINE I	10900 WALKER ST	RCRA NonGen / NLR	Lower	420, 0.080, West
G30	LTP MODERN MACHINE I	10900 WALKER ST	CERS HAZ WASTE, HAZNET, NPDES, CIWQS, CERS, HWTS	Lower	420, 0.080, West
F31	CLAYTON ENVIRON CONS	5736 CORPORATE AVE	RCRA-SQG, FINDS, ECHO	Higher	423, 0.080, NNE
H32	MAGNA TOOL INC	5594 MARKET PLACE	CERS HAZ WASTE, NPDES, CIWQS, CERS	Higher	484, 0.092, NNW
H33	MAGNA TOOL INC	5594 MARKET PLACE	RCRA NonGen / NLR	Higher	484, 0.092, NNW
H34	HYBRID APPAREL	5574 MARKET PL	RCRA NonGen / NLR	Higher	514, 0.097, NNW
H35	SMIT J K SONS INC	5554 MARKET PLACE	RCRA-SQG, FINDS, ECHO	Higher	514, 0.097, NW
I36	COSTCO WHOLESALE #74	10901 WALKER ST	CERS HAZ WASTE, CERS TANKS, CERS	Lower	515, 0.098, WSW
I37	COSTCO WHOLESALE #74	10901 WALKER ST	UST	Lower	515, 0.098, WSW
F38	FOCUS DIAGNOSTICS IN	5785 CORPORATE AVE	RCRA NonGen / NLR, ECHO, HAZNET, HWTS	Higher	539, 0.102, NNE

MAPPED SITES SUMMARY

Target Property Address:
5757 PLAZA DRIVE
CYPRESS, CA 90630

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
E39	JIMMY AUTO IMPORTS	10652 WALKER ST	CERS HAZ WASTE, CERS	Higher	573, 0.109, NW
E40	JIMMY INT'L DBA JIMM	10652 WALKER ST	RCRA NonGen / NLR	Higher	573, 0.109, NW
H41	POWERFLO PRODUCTS IN	5573 MARKET PL	RCRA NonGen / NLR	Higher	645, 0.122, NNW
J42	SUREFLO COMPLEX	5900 KATELLA AVE	CERS HAZ WASTE, CIWQS, CERS	Higher	649, 0.123, SE
J43	SIMPLE GLOBAL	5900 KATELLA AVE, SU	RCRA NonGen / NLR	Higher	649, 0.123, SE
J44	MITSUBISHI ELECTRIC	5900 KATELLA AVE STE	RCRA NonGen / NLR	Higher	649, 0.123, SE
K45	5560 KETTELLA AVE	5560 KATELLA AVE	CERS HAZ WASTE, CIWQS, CERS	Lower	671, 0.127, SW
K46	GLOBAL EXPERIENCE SP	5560 KATELLA AVE	RCRA NonGen / NLR	Lower	671, 0.127, SW
L47	ROLLS-ROYCE HIGH TEM	5730 KATELLA AVENUE	ENVIROSTOR, CERS HAZ WASTE, HAZNET, NPDES, CIWQS,	Lower	690, 0.131, South
L48	ROLLS-ROYCE HIGH TEM	5730 KATELLA AVE	RCRA NonGen / NLR	Lower	690, 0.131, South
M49	ANDREASEN MACHINE IN	10583 PROGRESS WAY	RCRA NonGen / NLR	Higher	707, 0.134, NW
50	DOUGLAS AIRCRAFT CO	6100 CHIP AVE	RCRA-SQG, FINDS, ECHO, HAZNET, HWTS	Higher	726, 0.138, East
N51	DRS SENSORS AND TARG	10600 VALLEY VIEW ST	CERS HAZ WASTE, HAZNET, CERS, HWTS	Higher	741, 0.140, NE
N52	DRS SENSORS AND TARG	10600 VALLEY VIEW ST	RCRA-SQG	Higher	741, 0.140, NE
M53	CENTRAL MEDICAL LAB	10554 PROGRESS WAY	RCRA-SQG	Higher	767, 0.145, NNW
O54	TRUE POSITION DIE CO	5480 KATELLA AVE STE	RCRA NonGen / NLR	Lower	790, 0.150, SW
O55	TRUE POSITION DIE CO	5480 KATELLA AVE	RCRA NonGen / NLR	Lower	790, 0.150, SW
O56	TRUE POSITION DIE CO	5480 KATELLA AVE STE	CERS HAZ WASTE, HAZNET, NPDES, CIWQS, CERS, HWTS	Lower	790, 0.150, SW
P57	D'ANDREA VISUAL COMM	6100 GATEWAY DR	CERS HAZ WASTE, CERS	Higher	823, 0.156, ENE
P58	D'ANDREA VISUAL COMM	6100 GATEWAY DR	RCRA NonGen / NLR	Higher	823, 0.156, ENE
M59	HIGHLINE EUROPEAN MO	10562 WALKER ST	CERS HAZ WASTE, HAZNET, CERS, HWTS	Lower	863, 0.163, NW
M60	HIGHLINE EUROPEAN MO	10562 WALKER ST	RCRA NonGen / NLR	Lower	863, 0.163, NW
61	KAYABA CORP	5790 KATELLA AVE	RCRA-SQG, FINDS, ECHO	Lower	881, 0.167, SSE
Q62	CHRISTIE DIGITAL SYS	10550 CAMDEN DR	RCRA-SQG, FINDS, ECHO	Higher	913, 0.173, NNE
Q63	CHRISTIE DIGITAL SYS	10550 CAMDEN DR	CERS HAZ WASTE, CERS	Higher	913, 0.173, NNE
64	F C I USA INC	5700 WARLAND DR	RCRA-SQG, HAZNET, HWTS	Lower	1004, 0.190, SSW
Q65	ADVANEX AMERICAS INC	5780 CERRITOS AVE	RCRA NonGen / NLR	Higher	1006, 0.191, NNE
Q66	ADVANEX AMERICAS INC	5780 CERRITOS AVE	CERS HAZ WASTE, HAZNET, NPDES, CIWQS, CERS, HWTS	Higher	1006, 0.191, NNE
R67	CLEVELAND GOLF	5630 CERRITOS AVE	RCRA NonGen / NLR, FINDS, ECHO, HAZNET, HWTS	Higher	1021, 0.193, North
R68	WCCT GLOBAL LLC	5630 CERRITOS AVE	RCRA NonGen / NLR	Higher	1021, 0.193, North
O69	WIRE TECH EDM INC	5450 KATELLA	RCRA NonGen / NLR	Lower	1048, 0.198, SW
S70	COSTCO WHOLESALE #74	5401 KATELLA AVE	UST	Lower	1051, 0.199, WSW
S71	COSTCO WHOLESALE NO	5401 KATELLA AVE	RCRA-LQG, SWRCY, CERS HAZ WASTE, HAZNET, CERS,...	Lower	1051, 0.199, WSW
T72	TEXACO STATION #61-1	6000 CERRITOS AVE	LUST, UST, HIST UST, CERS	Higher	1070, 0.203, NE
T73	SEMAAN TEXACO	6000 CERRITOS AV	HIST UST	Higher	1070, 0.203, NE
T74	TEXACO SERVICE STATI	6000 CERRITOS	HIST CORTESE	Higher	1070, 0.203, NE
T75	TEXACO STATION #61-1	6000 CERRITOS AVE	CA FID UST	Higher	1070, 0.203, NE
T76	TEXACO SERVICE STATI	6000 CERRITOS AVENUE	LUST, RCRA NonGen / NLR, FINDS, ECHO	Higher	1070, 0.203, NE
T77	TEXACO STATION #61-1	6000 CERRITOS AVE	SWEEPS UST	Higher	1070, 0.203, NE

MAPPED SITES SUMMARY

Target Property Address:
5757 PLAZA DRIVE
CYPRESS, CA 90630

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
T78	TEXACO	6000 CERRITOS	LUST, HIST UST, Cortese	Higher	1070, 0.203, NE
79	ADCRAFT SIGNS INC	10533 PROGRESS WY UN	RCRA-SQG, FINDS, ECHO	Lower	1095, 0.207, NNW
U80	DMG/MORISEIKI USA	5740 WARLAND DR	RCRA NonGen / NLR	Lower	1149, 0.218, South
U81	DMG/MORISEIKI USA	5740 WARLAND DR	CERS HAZ WASTE, HAZNET, CERS, HWTS	Lower	1149, 0.218, South
V82	COMTECH SPACE & COMP	6181 CHIP AVE	RCRA NonGen / NLR	Higher	1227, 0.232, East
V83	TELECOMMUNICATION SY	6181 CHIP AVE	RCRA NonGen / NLR	Higher	1227, 0.232, East
T84	PURRFECT AUTO SERVIC	6026 CERRITOS AVE	RCRA-SQG, FINDS, ECHO, HAZNET, HWTS	Higher	1245, 0.236, NE
T85	CWAC INC DBA CITYWID	6026 CERRITOS AVE	RCRA NonGen / NLR	Higher	1245, 0.236, NE
T86	PURRFECT AUTO SERVIC	6026 CERRITOS AVE	CERS HAZ WASTE, CERS, HWTS	Higher	1245, 0.236, NE
T87		6026 CERRITOS AVE	AST	Higher	1245, 0.236, NE
T88	CYPRESS AUTO REPAIR	6036 CERRITOS AVE	CERS HAZ WASTE, HAZNET, CERS, HWTS	Higher	1266, 0.240, NE
T89	CYPRESS AUTO REPAIR	6036 CERRITOS AVE	RCRA NonGen / NLR	Higher	1266, 0.240, NE
T90	ONE WAY TRANSMISSION	6036 CERRITOS	RCRA-SQG, FINDS, ECHO	Higher	1266, 0.240, NE
W91	WADE AUTOMOTIVE LLC	6040 CERRITOS	RCRA-LQG	Higher	1274, 0.241, NE
W92	AGN CORP DBA MIDAS M	6040 CERRITOS AVE	RCRA NonGen / NLR	Higher	1274, 0.241, NE
W93	MIDAS AUTOMOTIVE CYP	6040 W CERRITOS AVE	CERS HAZ WASTE	Higher	1274, 0.241, NE
W94	MIDAS MUFFLER & BRAK	6040 CERRITOS AVE	CERS HAZ WASTE, CERS	Higher	1274, 0.241, NE
W95	CYPRESS METRIC MOTOR	6042 CERRITOS AVE	RCRA-SQG, CERS HAZ WASTE, FINDS, ECHO, HAZNET,...	Higher	1278, 0.242, NE
W96	INTEGRITY TRANSMISSI	6044 CERRITOS AVE	CERS HAZ WASTE, HAZNET, CERS, HWTS	Higher	1282, 0.243, NE
W97	INTEGRITY TRANSMISSI	6044 CERRITOS AVE	RCRA NonGen / NLR	Higher	1282, 0.243, NE
X98	COOLANT MANAGEMENT S	11052 VIA EL MERCADO	CERS HAZ WASTE, CERS TANKS, CERS	Lower	1288, 0.244, SW
X99		11052 VIA EL MERCADO	AST	Lower	1288, 0.244, SW
X100	COOLANT MANAGEMENT S	11052 VIA EL MERCADO	RCRA NonGen / NLR	Lower	1288, 0.244, SW
X101	COOLANT MANAGEMENT S	11052 VIA EL MERCADO	AST	Lower	1288, 0.244, SW
Y102	H&S ENERGY PRODUCTS,	5999 CERRITOS AVE	UST	Higher	1298, 0.246, NE
Y103	H & S ENGERY PRODUCT	5999 CERRITOS AVE	RCRA NonGen / NLR	Higher	1298, 0.246, NE
Y104	UNOCAL #5176	5999 CERRITOS AVE	SWEEPS UST	Higher	1298, 0.246, NE
Y105	UNOCAL	5999 CERRITOS	LUST, Cortese, HIST CORTESE, CERS	Higher	1298, 0.246, NE
Y106	CHEVRON # 205987	5999 CERRITOS	UST	Higher	1298, 0.246, NE
Y107	UNOCAL #5176	5999 CERRITOS AVE	CERS HAZ WASTE, CA FID UST, CERS TANKS, HAZNET,...	Higher	1298, 0.246, NE
Y108	SERVICE STATION 5176	5999 CERRITOS	HIST UST	Higher	1298, 0.246, NE
Y109	UNION OIL SERVICE ST	5999 CERRITOS	HIST UST	Higher	1298, 0.246, NE
W110	JE & RL GROUP LLC DB	6052 CERRITOS AVE	RCRA NonGen / NLR	Higher	1302, 0.247, NE
W111	BML GROUP LLC DBA BI	6052 W CERRITOS AVE	RCRA NonGen / NLR	Higher	1302, 0.247, NE
W112	BIG O TIRES # 5858	6052 CERRITOS AVE	CERS HAZ WASTE, CERS	Higher	1302, 0.247, NE
Z113	TAYCO ENGINEERING IN	10874 HOPE ST	ENVIROSTOR, CERS HAZ WASTE, HAZNET, NPDES, CIWQS,	Higher	1832, 0.347, East
Z114	TAYCO ENGINEERING, I	10874 HOPE STREET	RCRA-LQG, ENVIROSTOR, FINDS, ECHO, EMI	Higher	1832, 0.347, East

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
MITSUBISHI ELEVATOR 5757 PLAZA AVE CYPRESS, CA 90630	HAZNET GEPAID: CAC001441888 HWTS	N/A
MITSUBISHI ELECTRIC 5757 PLAZA DR CYPRESS, CA 90630	FINDS Registry ID:: 110006467545 ECHO Registry ID: 110006467545	N/A
TRANSWESTERN 5665 PLAZA DR CYPRESS, CA 90630	HAZNET GEPAID: CAC002736131 HWTS	N/A
MITSUBISHI ELEVATOR 5665 PLAZA DR CYPRESS, CA 90630	HAZNET GEPAID: CAC002334041 HWTS	N/A
MITSUBISHI ELECTRIC 5757 PLAZA DRIVE CYPRESS, CA 90630	HAZNET GEPAID: CAL000218987 HWTS	N/A
MITSUBISHI ELECTRIC 5757 PLAZA AVE CYPRESS, CA 90221	HAZNET GEPAID: CAD063801047 HWTS	N/A
RREEF MGMT CO INC 5665 PLAZA DR CYPRESS, CA 90630	HWTS	N/A
MITSUBISHI ELECTRIC 5757 PLAZA DR CYPRESS, CA 90630	EMI Facility Id: 47638	N/A
MITSUBISHI ELECTRIC 5757 PLAZA DR CYPRESS, CA 90630	RCRA-SQG EPA ID:: CAD063801047	CAD063801047
CONTRACT APPLICATION 5757 PLAZA DR CYPRESS, CA 90630	HAZNET	N/A

EXECUTIVE SUMMARY

GEPAID: CAX000147454

HWTS

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-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

EXECUTIVE SUMMARY

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land
CPS-SLIC ---------- Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

VCP ---------- Voluntary Cleanup Program Properties
INDIAN VCP ---------- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---------- Waste Management Unit Database
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
PFAS	PFAS Contamination Site Location Listing

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
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
Orange Co. Industrial Site	List of Industrial Site Cleanups
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan

EXECUTIVE SUMMARY

CUPA Listings - CUPA Resources List
DRYCLEANERS - Cleaner Facilities
ENF - Enforcement Action Listing
Financial Assurance - Financial Assurance Information Listing
ICE - ICE
HWP - EnviroStor Permitted Facilities Listing
HWT - Registered Hazardous Waste Transporter Database
MINES - Mines Site Location Listing
MWMP - Medical Waste Management Program Listing
NPDES - NPDES Permits Listing
PEST LIC - Pesticide Regulation Licenses Listing
PROC - Certified Processors Database
Notify 65 - Proposition 65 Records
UIC - UIC Listing
UIC GEO - UIC GEO (GEOTRACKER)
WASTEWATER PITS - Oil Wastewater Pits Listing
WDS - Waste Discharge System
WIP - Well Investigation Program Case List
MILITARY PRIV SITES - MILITARY PRIV SITES (GEOTRACKER)
PROJECT - PROJECT (GEOTRACKER)
WDR - Waste Discharge Requirements Listing
CIWQS - California Integrated Water Quality System
CERS - CERS
NON-CASE INFO - NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS - OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS - PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT - SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ - Well Stimulation Project (GEOTRACKER)
MINES MRDS - Mineral Resources Data System

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
RGA LUST - Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-LQG: 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.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/22/2021 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WADE AUTOMOTIVE LLC	6040 CERRITOS	NE 1/8 - 1/4 (0.241 mi.)	W91	689
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
COSTCO WHOLESALE NO EPA ID:: CAR000160200	***5401 KATELLA AVE***	***WSW 1/8 - 1/4 (0.199 mi.)***	***S71***	***542***

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 03/22/2021 has revealed that there are 18 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PRECISION FERRITES & EPA ID:: CAD981368418	***5576 CORPORATE DR***	***NW 0 - 1/8 (0.018 mi.)***	***B11***	***65***
YASKAWA EPA ID:: CAR000171660	5626 CORPORATE AVE	N 0 - 1/8 (0.054 mi.)	C15	80
LINOTYPE HELL CO EPA ID:: CAD983671108	***5646 CORPORATE AVE***	***N 0 - 1/8 (0.060 mi.)***	***C17***	***83***
CAVOTEC DABICO EPA ID:: CAR000243113	***5665 CORPORATE AVE***	***N 0 - 1/8 (0.065 mi.)***	***C25***	***124***
CLAYTON ENVIRON CONS EPA ID:: CAD982317877	***5736 CORPORATE AVE***	***NNE 0 - 1/8 (0.080 mi.)***	***F31***	***158***
SMIT J K SONS INC EPA ID:: CAD040373938	***5554 MARKET PLACE***	***NW 0 - 1/8 (0.097 mi.)***	***H35***	***181***
DOUGLAS AIRCRAFT CO EPA ID:: CAD982402471	***6100 CHIP AVE***	***E 1/8 - 1/4 (0.138 mi.)***	***50***	***327***
DRS SENSORS AND TARG EPA ID:: CAR000162206	10600 VALLEY VIEW ST	NE 1/8 - 1/4 (0.140 mi.)	N52	400
CENTRAL MEDICAL LAB	10554 PROGRESS WAY	NNW 1/8 - 1/4 (0.145 mi.)	M53	405

EPA ID:: CAR000214791

CHRISTIE DIGITAL SYS EPA ID:: CA0000133512	***10550 CAMDEN DR***	***NNE 1/8 - 1/4 (0.173 mi.)***	***Q62***	***449***
PURRFECT AUTO SERVIC EPA ID:: CAR000094672	***6026 CERRITOS AVE***	***NE 1/8 - 1/4 (0.236 mi.)***	***T84***	***654***
ONE WAY TRANSMISSION EPA ID:: CAD983600107	***6036 CERRITOS***	***NE 1/8 - 1/4 (0.240 mi.)***	***T90***	***687***
CYPRESS METRIC MOTOR EPA ID:: CAD983605098	***6042 CERRITOS AVE***	***NE 1/8 - 1/4 (0.242 mi.)***	***W95***	***709***

Lower Elevation	Address	Direction / Distance	Map ID	Page
FOCUS DIAGNOSTICS EPA ID:: CAD982323024	***10743 PROGRESS WAY***	***WNW 0 - 1/8 (0.034 mi.)***	***B12***	***74***
CONSOLIDATED MEDICAL EPA ID:: CAR000224071	10700 WALKER ST	WNW 0 - 1/8 (0.075 mi.)	E26	128
KAYABA CORP EPA ID:: CAR000091660	***5790 KATELLA AVE***	***SSE 1/8 - 1/4 (0.167 mi.)***	***61***	***446***
F C I USA INC EPA ID:: CAR000109256	***5700 WARLAND DR***	***SSW 1/8 - 1/4 (0.190 mi.)***	***64***	***459***
ADCRAFT SIGNS INC EPA ID:: CAD983604414	***10533 PROGRESS WY UN***	***NNW 1/8 - 1/4 (0.207 mi.)***	***79***	***619***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 04/23/2021 has revealed that there are 4 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THE BOEING COMPANY Facility Id: 30990005 Status: Refer: 1248 Local Agency	***10800 VALLEY VIEW ST***	***E 0 - 1/8 (0.061 mi.)***	***D19***	***91***
TAYCO ENGINEERING IN Facility Id: 60002556 Status: Active	***10874 HOPE ST***	***E 1/4 - 1/2 (0.347 mi.)***	***Z113***	***821***
TAYCO ENGINEERING, I Facility Id: 71002954	***10874 HOPE STREET***	***E 1/4 - 1/2 (0.347 mi.)***	***Z114***	***1024***

Status: Inactive - Needs Evaluation

Lower Elevation	Address	Direction / Distance	Map ID	Page
ROLLS-ROYCE HIGH TEM	***5730 KATELLA AVENUE***	***S 1/8 - 1/4 (0.131 mi.)***	***L47***	***300***
Facility Id: 60002729				
Status: Active				

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 4 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TEXACO STATION #61-1	***6000 CERRITOS AVE***	***NE 1/8 - 1/4 (0.203 mi.)***	***T72***	***599***
Database: ORANGE CO. LUST, Date of Government Version: 03/01/2021				
Database: LUST, Date of Government Version: 03/08/2021				
Status: Completed - Case Closed				
Global Id: T0605948555				
Global Id: T0605900568				
Facility Id: 87UT200				
Facility Id: 03UT029				
TEXACO SERVICE STATI	***6000 CERRITOS AVENUE***	***NE 1/8 - 1/4 (0.203 mi.)***	***T76***	***606***
Database: LUST REG 8, Date of Government Version: 02/14/2005				
Facility Status: Pollution Characterization				
Global ID: T0605948555				
TEXACO	***6000 CERRITOS***	***NE 1/8 - 1/4 (0.203 mi.)***	***T78***	***616***
Database: LUST REG 8, Date of Government Version: 02/14/2005				
Facility Status: Case Closed				
Global ID: T0605900568				
UNOCAL	***5999 CERRITOS***	***NE 1/8 - 1/4 (0.246 mi.)***	***Y105***	***767***
Database: ORANGE CO. LUST, Date of Government Version: 03/01/2021				
Database: LUST REG 8, Date of Government Version: 02/14/2005				
Database: LUST, Date of Government Version: 03/08/2021				
Status: Completed - Case Closed				
Facility Status: Case Closed				
Global Id: T0605999467				
Global Id: T0605900646				
Global ID: T0605900646				
Facility Id: 86UT035				
Facility Id: 91UT043				

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 5 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TEXACO STATION #61-1	***6000 CERRITOS AVE***	***NE 1/8 - 1/4 (0.203 mi.)***	***T72***	***599***
Database: UST, Date of Government Version: 03/08/2021 Facility Id: 2045				
H&S ENERGY PRODUCTS,	5999 CERRITOS AVE	NE 1/8 - 1/4 (0.246 mi.)	Y102	762
Database: ORANGE CO. UST, Date of Government Version: 04/29/2021 Database: UST, Date of Government Version: 03/08/2021 Facility Id: FA0024586 Facility Id: FA0024586 Facility Id: 4269				
CHEVRON # 205987	5999 CERRITOS	NE 1/8 - 1/4 (0.246 mi.)	Y106	774
Database: ORANGE CO. UST, Date of Government Version: 04/29/2021 Facility Id: FA24586				

Lower Elevation	Address	Direction / Distance	Map ID	Page
COSTCO WHOLESALE #74	10901 WALKER ST	WSW 0 - 1/8 (0.098 mi.)	I37	209
Database: ORANGE CO. UST, Date of Government Version: 04/29/2021 Database: UST, Date of Government Version: 03/08/2021 Facility Id: FA0045719 Facility Id: FA0045719				
COSTCO WHOLESALE #74	5401 KATELLA AVE	WSW 1/8 - 1/4 (0.199 mi.)	S70	542
Database: UST, Date of Government Version: 03/08/2021 Facility Id: FA0064582				

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there are 5 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	5575 CORPORATE AVE	NW 0 - 1/8 (0.043 mi.)	B13	79
Database: AST, Date of Government Version: 07/06/2016				
CA-959 PHONESWITCH/H	5575 CORPORATE AVE	NW 0 - 1/8 (0.043 mi.)	B14	80
Database: AST, Date of Government Version: 07/06/2016				
Not reported	6026 CERRITOS AVE	NE 1/8 - 1/4 (0.236 mi.)	T87	667
Database: AST, Date of Government Version: 07/06/2016				

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	11052 VIA EL MERCADO	SW 1/8 - 1/4 (0.244 mi.)	X99	758
Database: AST, Date of Government Version: 07/06/2016				
COOLANT MANAGEMENT S	11052 VIA EL MERCADO	SW 1/8 - 1/4 (0.244 mi.)	X101	762
Database: AST, Date of Government Version: 07/06/2016				

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 03/09/2021 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
COSTCO WHOLESALE NO Cert Id: RC292816.001	***5401 KATELLA AVE***	***WSW 1/8 - 1/4 (0.199 mi.)***	***S71***	***542***

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 04/19/2021 has revealed that there are 27 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THE BOEING COMPANY	***10800 VALLEY VIEW ST***	***E 0 - 1/8 (0.061 mi.)***	***D19***	***91***
CAVOTEC USA, INC.	***5665 CORPORATE AVE***	***N 0 - 1/8 (0.065 mi.)***	***C23***	***114***
MAGNA TOOL INC	***5594 MARKET PLACE***	***NNW 0 - 1/8 (0.092 mi.)***	***H32***	***161***
JIMMY AUTO IMPORTS	***10652 WALKER ST***	***NW 0 - 1/8 (0.109 mi.)***	***E39***	***266***
SUREFLO COMPLEX	***5900 KATELLA AVE***	***SE 0 - 1/8 (0.123 mi.)***	***J42***	***277***
DRS SENSORS AND TARG	***10600 VALLEY VIEW ST***	***NE 1/8 - 1/4 (0.140 mi.)***	***N51***	***336***
D'ANDREA VISUAL COMM	***6100 GATEWAY DR***	***ENE 1/8 - 1/4 (0.156 mi.)***	***P57***	***425***
CHRISTIE DIGITAL SYS	***10550 CAMDEN DR***	***NNE 1/8 - 1/4 (0.173 mi.)***	***Q63***	***454***
ADVANEX AMERICAS INC	***5780 CERRITOS AVE***	***NNE 1/8 - 1/4 (0.191 mi.)***	***Q66***	***469***
PURRFECT AUTO SERVIC	***6026 CERRITOS AVE***	***NE 1/8 - 1/4 (0.236 mi.)***	***T86***	***661***
CYPRESS AUTO REPAIR	***6036 CERRITOS AVE***	***NE 1/8 - 1/4 (0.240 mi.)***	***T88***	***668***
MIDAS AUTOMOTIVE CYP	6040 W CERRITOS AVE	NE 1/8 - 1/4 (0.241 mi.)	W93	695
MIDAS MUFFLER & BRAK	***6040 CERRITOS AVE***	***NE 1/8 - 1/4 (0.241 mi.)***	***W94***	***697***
CYPRESS METRIC MOTOR	***6042 CERRITOS AVE***	***NE 1/8 - 1/4 (0.242 mi.)***	***W95***	***709***
INTEGRITY TRANSMISSI	***6044 CERRITOS AVE***	***NE 1/8 - 1/4 (0.243 mi.)***	***W96***	***732***
UNOCAL #5176	***5999 CERRITOS AVE***	***NE 1/8 - 1/4 (0.246 mi.)***	***Y107***	***774***
BIG O TIRES # 5858	***6052 CERRITOS AVE***	***NE 1/8 - 1/4 (0.247 mi.)***	***W112***	***811***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CONSOLIDATED MEDICAL	***10700 WALKER ST***	***WNW 0 - 1/8 (0.075 mi.)***	***E27***	***130***
LTP MODERN MACHINE I	***10900 WALKER ST***	***W 0 - 1/8 (0.080 mi.)***	***G30***	***140***
COSTCO WHOLESALE #74	***10901 WALKER ST***	***WSW 0 - 1/8 (0.098 mi.)***	***I36***	***184***
5560 KETTELLA AVE	***5560 KATELLA AVE***	***SW 1/8 - 1/4 (0.127 mi.)***	***K45***	***291***
ROLLS-ROYCE HIGH TEM	***5730 KATELLA AVENUE***	***S 1/8 - 1/4 (0.131 mi.)***	***L47***	***300***
TRUE POSITION DIE CO	***5480 KATELLA AVE STE***	***SW 1/8 - 1/4 (0.150 mi.)***	***O56***	***413***
HIGHLINE EUROPEAN MO	***10562 WALKER ST***	***NW 1/8 - 1/4 (0.163 mi.)***	***M59***	***432***
COSTCO WHOLESALE NO	***5401 KATELLA AVE***	***WSW 1/8 - 1/4 (0.199 mi.)***	***S71***	***542***
DMG/MORISEIKI USA	***5740 WARLAND DR***	***S 1/8 - 1/4 (0.218 mi.)***	***U81***	***624***
COOLANT MANAGEMENT S	***11052 VIA EL MERCADO***	***SW 1/8 - 1/4 (0.244 mi.)***	***X98***	***745***

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 2 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TEXACO STATION #61-1 Status: A Tank Status: A Comp Number: 2045	6000 CERRITOS AVE	NE 1/8 - 1/4 (0.203 mi.)	T77	613
UNOCAL #5176 Status: A Tank Status: A Comp Number: 4269	5999 CERRITOS AVE	NE 1/8 - 1/4 (0.246 mi.)	Y104	766

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 5 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TEXACO STATION #61-1	***6000 CERRITOS AVE***	***NE 1/8 - 1/4 (0.203 mi.)***	***T72***	***599***
SEMAAN TEXACO Facility Id: 00000056449	6000 CERRITOS AV	NE 1/8 - 1/4 (0.203 mi.)	T73	604
TEXACO Facility Id: 00000016042	***6000 CERRITOS***	***NE 1/8 - 1/4 (0.203 mi.)***	***T78***	***616***
SERVICE STATION 5176 Facility Id: 00000021293	5999 CERRITOS	NE 1/8 - 1/4 (0.246 mi.)	Y108	805
UNION OIL SERVICE ST Facility Id: 00000056184	5999 CERRITOS	NE 1/8 - 1/4 (0.246 mi.)	Y109	806

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 04/19/2021 has revealed that there are 3 CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UNOCAL #5176	***5999 CERRITOS AVE***	***NE 1/8 - 1/4 (0.246 mi.)***	***Y107***	***774***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
COSTCO WHOLESALE #74	***10901 WALKER ST***	***WSW 0 - 1/8 (0.098 mi.)***	***I36***	***184***
COOLANT MANAGEMENT S	***11052 VIA EL MERCADO***	***SW 1/8 - 1/4 (0.244 mi.)***	***X98***	***745***

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 2 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TEXACO STATION #61-1 Facility Id: 30000724 Status: A	6000 CERRITOS AVE	NE 1/8 - 1/4 (0.203 mi.)	T75	606
UNOCAL #5176 Facility Id: 30000773 Status: A	***5999 CERRITOS AVE***	***NE 1/8 - 1/4 (0.246 mi.)***	***Y107***	***774***

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 03/22/2021 has revealed that there are 37 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARKEM IMAJE CORP EPA ID:: CAL000422217	10800 VALLEY VIEW ST	E 0 - 1/8 (0.061 mi.)	D18	88
OK INTERNATIONAL	10800 VALLEY VIEW ST	E 0 - 1/8 (0.061 mi.)	D20	103
COOK COMPRESSION A D EPA ID:: CAL000421273	10800 VALLEY VIEW ST	E 0 - 1/8 (0.061 mi.)	D21	105
THE BOEING CO CYPRES EPA ID:: CAD018740241	10800 VALLEY VIEW ST	E 0 - 1/8 (0.061 mi.)	D22	108
CAVOTEC USA INC EPA ID:: CAL000451245	5665 CORPORATE AVE	N 0 - 1/8 (0.065 mi.)	C24	122
STATE OF CALIFORNIA EPA ID:: CAC003023023	5796 CORPORATE AVENU	NNE 0 - 1/8 (0.077 mi.)	F28	135
MAGNA TOOL INC EPA ID:: CAL000022312	5594 MARKET PLACE	NNW 0 - 1/8 (0.092 mi.)	H33	176
HYBRID APPAREL EPA ID:: CAC003052050	5574 MARKET PL	NNW 0 - 1/8 (0.097 mi.)	H34	178
FOCUS DIAGNOSTICS IN EPA ID:: CAR000156836	***5785 CORPORATE AVE***	***NNE 0 - 1/8 (0.102 mi.)***	***F38***	***210***
JIMMY INT'L DBA JIMM EPA ID:: CAL000190256	10652 WALKER ST	NW 0 - 1/8 (0.109 mi.)	E40	272
POWERFLO PRODUCTS IN EPA ID:: CAL000421311	5573 MARKET PL	NNW 0 - 1/8 (0.122 mi.)	H41	275
SIMPLE GLOBAL	5900 KATELLA AVE, SU	SE 0 - 1/8 (0.123 mi.)	J43	286

EPA ID:: CAC003017885				
MITSUBISHI ELECTRIC EPA ID:: CAL000376457	5900 KATELLA AVE STE	SE 0 - 1/8 (0.123 mi.)	J44	288
ANDREASEN MACHINE IN EPA ID:: CAL000362726	10583 PROGRESS WAY	NW 1/8 - 1/4 (0.134 mi.)	M49	325
D'ANDREA VISUAL COMM EPA ID:: CAL000401551	6100 GATEWAY DR	ENE 1/8 - 1/4 (0.156 mi.)	P58	430
ADVANEX AMERICAS INC EPA ID:: CAL000153678	5780 CERRITOS AVE	NNE 1/8 - 1/4 (0.191 mi.)	Q65	466
CLEVELAND GOLF EPA ID:: CAR000087973	***5630 CERRITOS AVE***	***N 1/8 - 1/4 (0.193 mi.)***	***R67***	***514***
WCCT GLOBAL LLC EPA ID:: CAL000402850	5630 CERRITOS AVE	N 1/8 - 1/4 (0.193 mi.)	R68	537
TEXACO SERVICE STATI EPA ID:: CAR000090340	***6000 CERRITOS AVENUE***	***NE 1/8 - 1/4 (0.203 mi.)***	***T76***	***606***
COMTECH SPACE & COMP EPA ID:: CAL000437449	6181 CHIP AVE	E 1/8 - 1/4 (0.232 mi.)	V82	649
TELECOMMUNICATION SY EPA ID:: CAL000449430	6181 CHIP AVE	E 1/8 - 1/4 (0.232 mi.)	V83	651
CWAC INC DBA CITYWID EPA ID:: CAL000438341	6026 CERRITOS AVE	NE 1/8 - 1/4 (0.236 mi.)	T85	659
CYPRESS AUTO REPAIR EPA ID:: CAL000258862	6036 CERRITOS AVE	NE 1/8 - 1/4 (0.240 mi.)	T89	684
AGN CORP DBA MIDAS M EPA ID:: CAL000386166	6040 CERRITOS AVE	NE 1/8 - 1/4 (0.241 mi.)	W92	692
INTEGRITY TRANSMISSI EPA ID:: CAL000374777	6044 CERRITOS AVE	NE 1/8 - 1/4 (0.243 mi.)	W97	743
H & S ENGERY PRODUCT EPA ID:: CAL000257805	5999 CERRITOS AVE	NE 1/8 - 1/4 (0.246 mi.)	Y103	763
JE & RL GROUP LLC DB	6052 CERRITOS AVE	NE 1/8 - 1/4 (0.247 mi.)	W110	806
BML GROUP LLC DBA BI EPA ID:: CAL000425741	6052 W CERRITOS AVE	NE 1/8 - 1/4 (0.247 mi.)	W111	809

Lower Elevation	Address	Direction / Distance	Map ID	Page
LTP MODERN MACHINE I EPA ID:: CAL000420984	10900 WALKER ST	W 0 - 1/8 (0.080 mi.)	G29	137
GLOBAL EXPERIENCE SP EPA ID:: CAL000286674	5560 KATELLA AVE	SW 1/8 - 1/4 (0.127 mi.)	K46	297
ROLLS-ROYCE HIGH TEM EPA ID:: CAL000415727	5730 KATELLA AVE	S 1/8 - 1/4 (0.131 mi.)	L48	322
TRUE POSITION DIE CO EPA ID:: CAL000449693	5480 KATELLA AVE STE	SW 1/8 - 1/4 (0.150 mi.)	O54	408
TRUE POSITION DIE CO EPA ID:: CAL000254946	5480 KATELLA AVE	SW 1/8 - 1/4 (0.150 mi.)	O55	410
HIGHLINE EUROPEAN MO EPA ID:: CAL000448595	10562 WALKER ST	NW 1/8 - 1/4 (0.163 mi.)	M60	444
WIRE TECH EDM INC	5450 KATELLA	SW 1/8 - 1/4 (0.198 mi.)	O69	539

EPA ID:: CAL000079694				
DMG/MORISEIKI USA EPA ID:: CAL000356106	5740 WARLAND DR	S 1/8 - 1/4 (0.218 mi.)	U80	622
COOLANT MANAGEMENT S EPA ID:: CAL000229936	11052 VIA EL MERCADO	SW 1/8 - 1/4 (0.244 mi.)	X100	758

DOD: 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.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOS ALAMITOS ARMED F		S 1/4 - 1/2 (0.307 mi.)	0	65

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 03/22/2021 has revealed that there are 2 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TEXACO Cleanup Status: COMPLETED - CASE CLOSED	***6000 CERRITOS***	***NE 1/8 - 1/4 (0.203 mi.)***	***T78***	***616***
UNOCAL Cleanup Status: COMPLETED - CASE CLOSED	***5999 CERRITOS***	***NE 1/8 - 1/4 (0.246 mi.)***	***Y105***	***767***

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TEXACO SERVICE STATI Reg Id: 083000718T	6000 CERRITOS	NE 1/8 - 1/4 (0.203 mi.)	T74	606
UNOCAL Reg Id: 083000819T Reg Id: 083002920T	***5999 CERRITOS***	***NE 1/8 - 1/4 (0.246 mi.)***	***Y105***	***767***

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

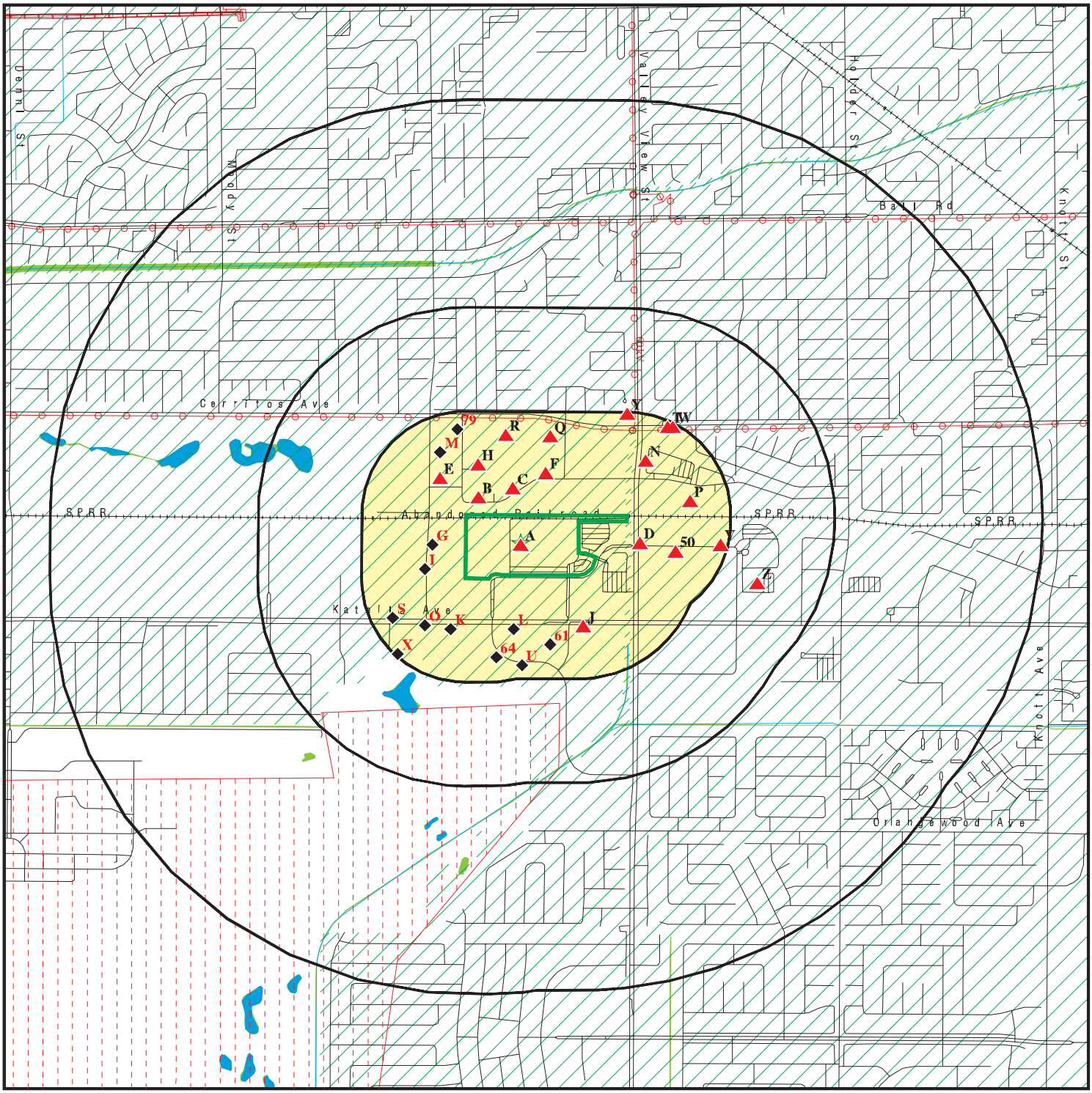
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MOBIL CORPORATION	5636 CORPORATE AVE 4	N 0 - 1/8 (0.057 mi.)	C16	83

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

Site Name	Database(s)
NORGE LAUNDRY & DRY CLEANING VILLA	DRYCLEANERS
BENJAMIN B & MARIA L BARAJAS DBA	DRYCLEANERS
ANAHEIM CONVENTION CENTER	LUST

OVERVIEW MAP - 6586541.2S



- 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
- Power transmission lines
- Pipelines
- 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:	Goodman	CLIENT:	Stantec
ADDRESS:	5757 Plaza Drive Cypress CA 90630	CONTACT:	Alicia Jansen
LAT/LONG:	33.805668 / 118.033132	INQUIRY #:	6586541.2s
		DATE:	July 21, 2021 3:54 pm

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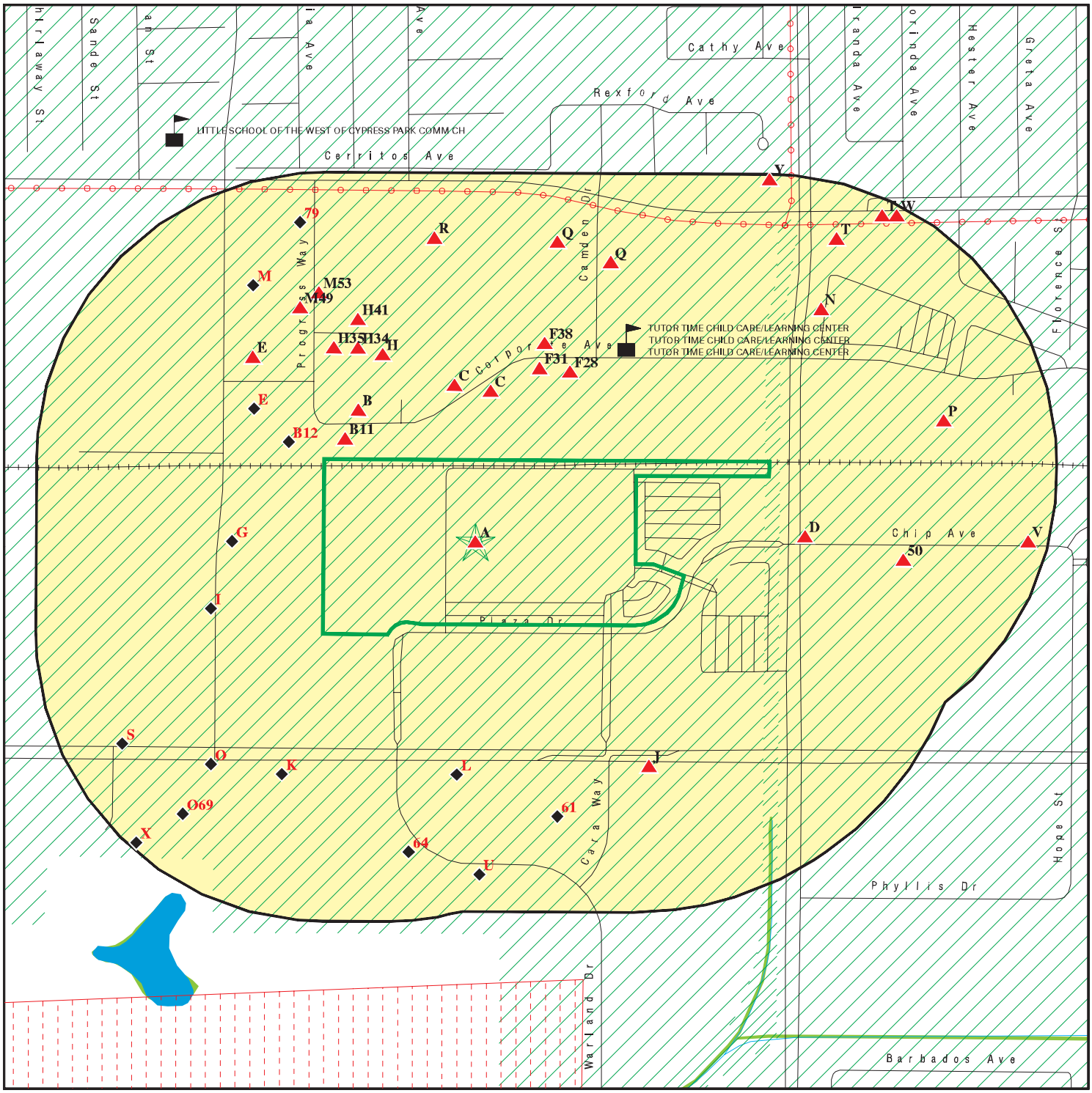
DETAIL MAP - 6586541.2S



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
- 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:	Goodman	CLIENT:	Stantec
ADDRESS:	5757 Plaza Drive Cypress CA 90630	CONTACT:	Alicia Jansen
LAT/LONG:	33.805668 / 118.033132	INQUIRY #:	6586541.2s
		DATE:	July 21, 2021 3:56 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	2	NR	NR	NR	2
RCRA-SQG	0.250	1	8	10	NR	NR	NR	19
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		1	1	2	0	NR	4
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	4	0	NR	NR	4

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		1	4	NR	NR	NR	5
AST	0.250		2	3	NR	NR	NR	5
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	1	0	NR	NR	1
HAULERS	TP		NR	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	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		8	19	NR	NR	NR	27
US CDL	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	2	NR	NR	NR	2
HIST UST	0.250		0	5	NR	NR	NR	5
CERS TANKS	0.250		1	2	NR	NR	NR	3
CA FID UST	0.250		0	2	NR	NR	NR	2
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
Orange Co. Industrial Site	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		14	23	NR	NR	NR	37
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	1	0	NR	1
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP	1	NR	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	2	0	NR	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP	1	NR	NR	NR	NR	NR	1
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP	6	NR	NR	NR	NR	NR	6
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	2	0	NR	NR	2
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	0
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
HWTS	TP	7	NR	NR	NR	NR	NR	7
MINES MRDS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		1	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		17	36	82	3	0	0	138

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **MITSUBISHI ELEVATOR** **HAZNET** **S112891970**
Target **5757 PLAZA AVE** **HWTS** **N/A**
Property **CYPRESS, CA 90630**

Site 1 of 10 in cluster A

Actual:
38 ft.

HAZNET:

Name:	MITSUBISHI ELEVATOR
Address:	5757 PLAZA AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
Contact:	DYAN RYAN
Telephone:	7142204754
Mailing Name:	Not reported
Mailing Address:	5665 PLAZA DR
Year:	2000
Gepaid:	CAC001441888
TSD EPA ID:	CAD982444481
CA Waste Code:	352 - Other organic solids
Disposal Method:	R01 - Recycler
Tons:	0.25

Additional Info:

Year:	2000
Gen EPA ID:	CAC001441888
Shipment Date:	20000908
Creation Date:	11/14/2000 0:00:00
Receipt Date:	20000911
Manifest ID:	20462450
Trans EPA ID:	CAD982359671
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	MITSUBISHI ELEVATOR
Address:	5757 PLAZA AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
EPA ID:	CAC001441888

MITSUBISHI ELEVATOR (Continued) **S112891970**

Inactive Date:	06/11/2001
Create Date:	09/01/2000
Last Act Date:	06/11/2001
Mailing Name:	Not reported
Mailing Address:	5665 PLAZA DR
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CYPRESS, CA 906300000
Owner Name:	MITSUBISHI ELEVATOR
Owner Address:	5665 PLAZA DR
Owner Address 2:	Not reported
Owner City,State,Zip:	CYPRESS, CA 906300000
Contact Name:	DYAN RYAN
Contact Address:	5665 PLAZA DR
Contact Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000

A2 **MITSUBISHI ELECTRIC SALES AMERICA, INC** **FINDS** **1016216005**
Target **5757 PLAZA DR** **ECHO** **N/A**
Property **CYPRESS, CA 90630**

Site 2 of 10 in cluster A

Actual:
38 ft.

FINDS:
Registry ID: 110006467545

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1016216005
Registry ID:	110006467545
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110006467545
Name:	MITSUBISHI ELECTRIC SALES AMERICA, INC
Address:	5757 PLAZA DR
City,State,Zip:	CYPRESS, CA 90630

A3 **TRANSWESTERN** **HAZNET** **S117295795**
Target **5665 PLAZA DR** **HWTS** **N/A**
Property **CYPRESS, CA 90630**

Site 3 of 10 in cluster A

Actual:
38 ft.

HAZNET:

Name:	TRANSWESTERN
Address:	5665 PLAZA DR
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906305023

TRANSWESTERN (Continued) **S117295795**

Contact: KEVIN SMYTH
Telephone: 7146239079
Mailing Name: Not reported
Mailing Address: P.O. BOX 9073

Year: 2013
Gepaid: CAC002736131
TSD EPA ID: AZR000501510
CA Waste Code: 135 - Unspecified aqueous solution
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.071

Additional Info:
Year: 2013
Gen EPA ID: CAC002736131

Shipment Date: 20130717
Creation Date: 11/20/2013 22:15:20
Receipt Date: 20130723
Manifest ID: 011642029JJK
Trans EPA ID: CAR000148296
Trans Name: STARLITE RECLAMATION ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: CAD980585293
Trans 2 Name: INDUSTRIAL WASTE UTILIZATION
TSDF EPA ID: AZR000501510
Trans Name: AA SYDCOL LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 135 - Unspecified aqueous solution
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 1.071
Waste Quantity: 255
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

HWTS:
Name: TRANSWESTERN
Address: 5665 PLAZA DR
Address 2: Not reported
City,State,Zip: CYPRESS, CA 906305023
EPA ID: CAC002736131
Inactive Date: 10/08/2013
Create Date: 07/09/2013
Last Act Date: 10/09/2013
Mailing Name: Not reported
Mailing Address: P.O. BOX 9073
Mailing Address 2: Not reported
Mailing City,State,Zip: ADDISON, TX 75001

TRANSWESTERN (Continued) **S117295795**

Owner Name:	TRANSWESTERN
Owner Address:	P.O. BOX 9073
Owner Address 2:	Not reported
Owner City,State,Zip:	ADDISON, TX 75001
Contact Name:	KEVIN SMYTH
Contact Address:	1630 S SUNKIST ST STE A
Contact Address 2:	Not reported
City,State,Zip:	ANAHEIM, CA 928065816

A4 **MITSUBISHI ELEVATOR INC** **HAZNET** **S112913221**
Target **5665 PLAZA DR** **HWTS** **N/A**
Property **CYPRESS, CA 90630**

Site 4 of 10 in cluster A

Actual: **38 ft.**

HAZNET:

Name:	MITSUBISHI ELEVATOR INC
Address:	5665 PLAZA DR
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
Contact:	MATT JASKIEWICZ-CONST SUPR
Telephone:	7142204700
Mailing Name:	Not reported
Mailing Address:	5665 PLAZA DR
Year:	2001
Gepaid:	CAC002334041
TSD EPA ID:	CAD982444481
CA Waste Code:	352 - Other organic solids
Disposal Method:	H01 - Transfer Station
Tons:	0.2
Year:	2001
Gepaid:	CAC002334041
TSD EPA ID:	CAD982444481
CA Waste Code:	461 - Paint sludge
Disposal Method:	H01 - Transfer Station
Tons:	0.0291
Year:	2001
Gepaid:	CAC002334041
TSD EPA ID:	CAD982444481
CA Waste Code:	352 - Other organic solids
Disposal Method:	R01 - Recycler
Tons:	0.3
Year:	2000
Gepaid:	CAC002334041
TSD EPA ID:	CAD982444481
CA Waste Code:	461 - Paint sludge
Disposal Method:	H01 - Transfer Station
Tons:	0.05
Year:	2000
Gepaid:	CAC002334041
TSD EPA ID:	CAD982444481
CA Waste Code:	352 - Other organic solids
Disposal Method:	H01 - Transfer Station

MITSUBISHI ELEVATOR INC (Continued) **S112913221**

Tons: 0.09

Additional Info:
Year: 2000
Gen EPA ID: CAC002334041

Shipment Date: 20001228
Creation Date: 3/22/2001 0:00:00
Receipt Date: 20010103
Manifest ID: 20462612
Trans EPA ID: CAD982359671
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD982444481
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 461 - Paint sludge
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 0.05
Waste Quantity: 100
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20001228
Creation Date: 3/22/2001 0:00:00
Receipt Date: 20010103
Manifest ID: 20462612
Trans EPA ID: CAD982359671
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD982444481
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 0.09
Waste Quantity: 180
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:

MITSUBISHI ELEVATOR INC (Continued) **S112913221**

Year:	2001
Gen EPA ID:	CAC002334041
Shipment Date:	20010122
Creation Date:	4/10/2001 0:00:00
Receipt Date:	20010123
Manifest ID:	20462648
Trans EPA ID:	CAD982359671
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.3
Waste Quantity:	600
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:	20010112
Creation Date:	4/10/2001 0:00:00
Receipt Date:	20010116
Manifest ID:	20462642
Trans EPA ID:	CAD982359671
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2
Waste Quantity:	400
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:	20010112
Creation Date:	4/10/2001 0:00:00
Receipt Date:	20010116
Manifest ID:	20462642
Trans EPA ID:	CAD982359671
Trans Name:	Not reported

MITSUBISHI ELEVATOR INC (Continued) **S112913221**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	461 - Paint sludge
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0291
Waste Quantity:	7
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	MITSUBISHI ELEVATOR INC
Address:	5665 PLAZA DR
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
EPA ID:	CAC002334041
Inactive Date:	09/11/2001
Create Date:	12/28/2000
Last Act Date:	09/11/2001
Mailing Name:	Not reported
Mailing Address:	5665 PLAZA DR
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CYPRESS, CA 906300000
Owner Name:	MITSUBISHI ELEVATOR INC
Owner Address:	5665 PLAZA DR
Owner Address 2:	Not reported
Owner City,State,Zip:	CYPRESS, CA 906300000
Contact Name:	MATT JASKIEWICZ-CONST SUPR
Contact Address:	5665 PLAZA DR
Contact Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000

NAICS:

EPA ID:	CAC002334041
Create Date:	2002-03-14 16:36:26.000
NAICS Code:	541922
NAICS Description:	Commercial Photography
Issued EPA ID Date:	2000-12-28 00:00:00
Inactive Date:	2001-09-11 00:00:00
Facility Name:	MITSUBISHI ELEVATOR INC
Facility Address:	5665 PLAZA DR
Facility Address 2:	Not reported
Facility City:	CYPRESS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	906300000

A5 **MITSUBISHI ELECTRIC & ELECTRONIC USA INC** **HAZNET** **S113110289**
Target **5757 PLAZA DRIVE** **HWTS** **N/A**
Property **CYPRESS, CA 90630**

Site 5 of 10 in cluster A

Actual: **38 ft.**

HAZNET:

Name:	MITSUBISHI ELECTRIC & ELECTRONIC USA INC
Address:	5757 PLAZA DRIVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
Contact:	AL SCHUYLER
Telephone:	7142204754
Mailing Name:	Not reported
Mailing Address:	5665 PLAZA DR
Year:	2012
Gepaid:	CAL000218987
TSD EPA ID:	CAD982444481
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:	0.4
Year:	2012
Gepaid:	CAL000218987
TSD EPA ID:	CAD981696420
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:	0.1
Year:	2012
Gepaid:	CAL000218987
TSD EPA ID:	CAD008364432
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.066
Year:	2012
Gepaid:	CAL000218987
TSD EPA ID:	CAD008302903
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.836
Year:	2012
Gepaid:	CAL000218987
TSD EPA ID:	CAD981427669
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:	0.988
Year:	2011
Gepaid:	CAL000218987
TSD EPA ID:	CAD008302903
CA Waste Code:	221 - Waste oil and mixed oil

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 2.508

Year: 2011
Gepaid: CAL000218987
TSD EPA ID: CAD982444481
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: 0.4

Year: 2010
Gepaid: CAL000218987
TSD EPA ID: CAD018302903
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.76

Year: 2010
Gepaid: CAL000218987
TSD EPA ID: CAD982444481
CA Waste Code: 352 - Other organic solids
Disposal Method: H129 - Other Treatment
Tons: 0.225

Year: 2010
Gepaid: CAL000218987
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: 3.895

Click this hyperlink while viewing on your computer to access
25 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2011
Gen EPA ID: CAL000218987

Shipment Date: 20110823
Creation Date: 10/19/2011 18:30:39
Receipt Date: 20110830
Manifest ID: 000017790DAT
Trans EPA ID: CAD982359671
Trans Name: LIGHTNING OIL CO INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008302903
Trans Name: VEOLIA ENVIRONMENTAL
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.494
Waste Quantity:	130
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:	20110823
Creation Date:	10/19/2011 18:30:39
Receipt Date:	20110825
Manifest ID:	000017807DAT
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
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:	0.175
Waste Quantity:	350
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:	20110510
Creation Date:	6/16/2011 18:30:25
Receipt Date:	20110512
Manifest ID:	000017667DAT
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110318
Creation Date:	4/27/2011 18:30:52
Receipt Date:	20110325
Manifest ID:	000017645DAT
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ENVIROMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.76
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110120
Creation Date:	3/28/2011 18:30:35
Receipt Date:	20110126
Manifest ID:	000017540DAT
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.045
Waste Quantity:	275
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:	20110120
Creation Date:	3/30/2011 18:30:08
Receipt Date:	20110129

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Manifest ID:	000017551DAT
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
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:	0.225
Waste Quantity:	450
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2008
Gen EPA ID:	CAL000218987
Shipment Date:	20081125
Creation Date:	1/9/2009 18:30:26
Receipt Date:	20081126
Manifest ID:	000405625GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	CAD982359671
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:	2.28
Waste Quantity:	600
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081027
Creation Date:	12/11/2008 18:30:30
Receipt Date:	20081028
Manifest ID:	000405603GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

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:	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

Shipment Date:	20081021
Creation Date:	12/8/2008 18:30:25
Receipt Date:	20081024
Manifest ID:	000405650GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES 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:	1.976
Waste Quantity:	520
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:	20080908
Creation Date:	10/21/2008 18:30:08
Receipt Date:	20080910
Manifest ID:	000405576GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES OIL CO INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.71
Waste Quantity:	450
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:	20080814
Creation Date:	10/10/2008 18:30:25
Receipt Date:	20080818
Manifest ID:	000405570GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES 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:	2.774
Waste Quantity:	730
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:	20080813
Creation Date:	10/10/2008 18:30:18
Receipt Date:	20080814
Manifest ID:	000405572GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
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:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080707
Creation Date:	9/4/2008 18:30:07
Receipt Date:	20080710
Manifest ID:	000405522GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
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:	0.2
Waste Quantity:	400
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:	20080630
Creation Date:	8/20/2008 18:30:08
Receipt Date:	20080701
Manifest ID:	000405508GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES 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:	1.102
Waste Quantity:	290
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:	20080502
Creation Date:	7/16/2008 18:30:08

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Receipt Date:	20080505
Manifest ID:	000405427GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES 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:	0.76
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20080215
Creation Date:	4/3/2008 18:30:19
Receipt Date:	20080219
Manifest ID:	000405339GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES 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:	0.836
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2006
Gen EPA ID:	CAL000218987

Shipment Date:	20061228
Creation Date:	4/19/2007 18:32:02
Receipt Date:	20061229
Manifest ID:	000005810GBF
Trans EPA ID:	CAD982359671

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
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:	0.3
Waste Quantity:	600
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:	20061228
Creation Date:	4/19/2007 18:31:46
Receipt Date:	20070103
Manifest ID:	000005827GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
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:	0.532
Waste Quantity:	140
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:	20061121
Creation Date:	3/30/2007 13:33:18
Receipt Date:	20061127
Manifest ID:	000005803GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES OIL CO INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

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:	0.836
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061026
Creation Date:	3/30/2007 13:33:32
Receipt Date:	20061026
Manifest ID:	000005727GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES 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:	1.938
Waste Quantity:	510
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:	20061025
Creation Date:	3/30/2007 13:33:32
Receipt Date:	20061026
Manifest ID:	000005785GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Additional 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:	20060815
Creation Date:	2/22/2007 18:30:13
Receipt Date:	20060822
Manifest ID:	25201081
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.2
Waste Quantity:	400
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:	20060815
Creation Date:	9/27/2006 18:34:58
Receipt Date:	20060817
Manifest ID:	25201082
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES OIL CO INC
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	2.052
Waste Quantity:	540
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:	20060627
Creation Date:	9/8/2006 18:30:50
Receipt Date:	20060628

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Manifest ID:	24566389
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES OIL CO INC
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	2.394
Waste Quantity:	630
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:	20060224
Creation Date:	6/22/2006 18:34:40
Receipt Date:	20060227
Manifest ID:	24566253
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
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:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	2.375
Waste Quantity:	625
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:	20060124
Creation Date:	7/11/2006 18:33:41
Receipt Date:	20060126
Manifest ID:	24566214
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES OIL CO INC
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

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

Additional Info:

Year:	2005
Gen EPA ID:	CAL000218987
Shipment Date:	20051219
Creation Date:	3/14/2007 18:30:24
Receipt Date:	20051220
Manifest ID:	24566174
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.09
Waste Quantity:	180
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:	20051208
Creation Date:	7/12/2006 18:32:38
Receipt Date:	20051212
Manifest ID:	24566161
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES OIL CO INC
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.406
Waste Quantity:	370

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

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:	20051012
Creation Date:	5/24/2006 18:31:13
Receipt Date:	20051018
Manifest ID:	24566101
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	CAD98244481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.2
Waste Quantity:	400
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:	20050926
Creation Date:	3/10/2006 10:49:15
Receipt Date:	20050928
Manifest ID:	24566065
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
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:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.558
Waste Quantity:	410
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:	20050912
Creation Date:	12/16/2005 18:31:03

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Receipt Date:	20050912
Manifest ID:	24566037
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
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:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.988
Waste Quantity:	260
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:	20050819
Creation Date:	4/13/2006 18:45:56
Receipt Date:	20050823
Manifest ID:	24566023
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
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:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.456
Waste Quantity:	120
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:	20050613
Creation Date:	9/15/2005 18:32:02
Receipt Date:	20050614
Manifest ID:	24084753
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
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:	CAD099452708

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	2.28
Waste Quantity:	600
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050426
Creation Date:	7/21/2005 18:32:26
Receipt Date:	20050429
Manifest ID:	24084708
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
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:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.14
Waste Quantity:	300
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050412
Creation Date:	7/28/2005 18:30:54
Receipt Date:	20050418
Manifest ID:	24084677
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	CAL982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050214
Creation Date:	5/27/2005 18:30:29
Receipt Date:	20050218
Manifest ID:	24084615
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2007
Gen EPA ID:	CAL000218987
Shipment Date:	20070430
Creation Date:	8/28/2007 18:30:05
Receipt Date:	20070501
Manifest ID:	000005972GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
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:	1.216
Waste Quantity:	320
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

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Shipment Date:	20070416
Creation Date:	9/24/2007 18:30:06
Receipt Date:	20070426
Manifest ID:	000005975GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H129 - Other Treatment
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20070323
Creation Date:	10/13/2008 18:30:08
Receipt Date:	20070327
Manifest ID:	000005940GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES 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:	2.28
Waste Quantity:	600
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20070307
Creation Date:	8/19/2007 18:30:21
Receipt Date:	20070308
Manifest ID:	000005912GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES 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:	2.09
Waste Quantity:	550
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:	20070209
Creation Date:	10/13/2008 18:30:08
Receipt Date:	20070213
Manifest ID:	000005846GBF
Trans EPA ID:	CAL000218987
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES 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:	1.9
Waste Quantity:	500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2001
Gen EPA ID:	CAL000218987
Shipment Date:	20010907
Creation Date:	12/17/2001 0:00:00
Receipt Date:	20010914
Manifest ID:	20944026
Trans EPA ID:	CAD982359671
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.09
Waste Quantity:	180
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:	20010425
Creation Date:	7/10/2001 0:00:00
Receipt Date:	20010426
Manifest ID:	20462793
Trans EPA ID:	CAD982359671
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010425
Creation Date:	7/10/2001 0:00:00
Receipt Date:	20010426
Manifest ID:	20462793
Trans EPA ID:	CAD982359671
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010301
Creation Date:	5/16/2001 0:00:00
Receipt Date:	20010302
Manifest ID:	20462707
Trans EPA ID:	CAD982359671
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2
Waste Quantity:	400
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:	2009
Gen EPA ID:	CAL000218987
Shipment Date:	20090513
Creation Date:	7/2/2009 18:30:08
Receipt Date:	20090514
Manifest ID:	000405853GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H129 - Other Treatment
Quantity Tons:	0.2
Waste Quantity:	400
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:	20090505

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Creation Date:	7/2/2009 18:30:08
Receipt Date:	20090514
Manifest ID:	000405850GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H129 - Other Treatment
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20090505
Creation Date:	6/5/2009 18:30:08
Receipt Date:	20090507
Manifest ID:	000405866GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES 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:	0.608
Waste Quantity:	160
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:	20090423
Creation Date:	5/29/2009 18:30:40
Receipt Date:	20090428
Manifest ID:	000405842GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Trans Name:	INDUSTRIAL SERVICES 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:	0.836
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090408
Creation Date:	5/23/2009 18:30:08
Receipt Date:	20090415
Manifest ID:	000405834GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES 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:	0.741
Waste Quantity:	195
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:	20090326
Creation Date:	5/11/2009 18:30:09
Receipt Date:	20090326
Manifest ID:	000405828GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES 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

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Quantity Tons:	1.33
Waste Quantity:	350
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:	20090215
Creation Date:	4/8/2009 18:30:46
Receipt Date:	20090216
Manifest ID:	000405785GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	461 - Paint sludge
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
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:	20090211
Creation Date:	4/8/2009 18:30:46
Receipt Date:	20090216
Manifest ID:	000405725GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	461 - Paint sludge
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.05004
Waste Quantity:	12
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

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Shipment Date:	20090205
Creation Date:	4/8/2009 18:30:21
Receipt Date:	20090210
Manifest ID:	000405800GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H129 - Other Treatment
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20090204
Creation Date:	3/31/2009 18:30:30
Receipt Date:	20090205
Manifest ID:	000405788GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES 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:	0.532
Waste Quantity:	140
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2003
Gen EPA ID:	CAL000218987

Shipment Date:	20031120
Creation Date:	8/5/2004 10:14:17
Receipt Date:	20031121
Manifest ID:	22793637

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
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:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.824
Waste Quantity:	480
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:	20031120
Creation Date:	8/24/2004 10:00:04
Receipt Date:	20031126
Manifest ID:	22793645
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
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:	20030912
Creation Date:	7/13/2004 10:48:19
Receipt Date:	20030919
Manifest ID:	22020753
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030612
Creation Date:	7/22/2004 7:52:06
Receipt Date:	20030618
Manifest ID:	22020656
Trans EPA ID:	CAD982359671
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2012
Gen EPA ID:	CAL000218987
Shipment Date:	20120822
Creation Date:	10/29/2012 22:15:06
Receipt Date:	20120907
Manifest ID:	010020611JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
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:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.066
Waste Quantity:	20
Quantity Unit:	G

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Additional Code 1:	F003
Additional Code 2:	D035
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120821
Creation Date:	10/10/2012 22:15:27
Receipt Date:	20120821
Manifest ID:	010020606JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SVCS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120501
Creation Date:	6/27/2012 20:30:23
Receipt Date:	20120509
Manifest ID:	000017036DAT
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981427669
Trans Name:	AMERICAN OIL COMPANY
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:	0.988
Waste Quantity:	260
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:	20120501

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Creation Date:	6/14/2012 20:30:09
Receipt Date:	20120501
Manifest ID:	000017040DAT
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120112
Creation Date:	3/16/2012 20:30:38
Receipt Date:	20120113
Manifest ID:	000017936DAT
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.836
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120112
Creation Date:	3/27/2012 20:30:27
Receipt Date:	20120117
Manifest ID:	000017944DAT
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
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:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2004
Gen EPA ID:	CAL000218987
Shipment Date:	20041109
Creation Date:	1/28/2005 18:31:06
Receipt Date:	20041110
Manifest ID:	24084492
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.55
Waste Quantity:	1100
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:	20041104
Creation Date:	1/11/2005 18:30:51
Receipt Date:	20041105
Manifest ID:	24084456
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
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:	CAD099452708
TSDF Alt Name:	Not reported

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.14
Waste Quantity:	300
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041018
Creation Date:	12/31/2004 18:31:40
Receipt Date:	20041021
Manifest ID:	24084467
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040920
Creation Date:	3/16/2007 18:31:12
Receipt Date:	20040921
Manifest ID:	24084413
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
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:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.9
Waste Quantity:	500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040511
Creation Date:	10/15/2004 8:41:08
Receipt Date:	20040512
Manifest ID:	22793875
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
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:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.9
Waste Quantity:	500
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:	20040511
Creation Date:	10/29/2004 7:40:51
Receipt Date:	20040512
Manifest ID:	22793871
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
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:	20040223
Creation Date:	8/20/2004 9:49:45
Receipt Date:	20040224
Manifest ID:	22793728
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

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:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.235
Waste Quantity:	325
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2010
Gen EPA ID:	CAL000218987
Shipment Date:	20101104
Creation Date:	1/3/2011 18:30:54
Receipt Date:	20101111
Manifest ID:	001137963GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD018302903
Trans Name:	VEOLIA ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.76
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100910
Creation Date:	12/3/2010 18:30:42
Receipt Date:	20100917
Manifest ID:	001138001GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES OIL CO INC

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

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:	1.463
Waste Quantity:	385
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:	20100910
Creation Date:	11/3/2010 18:30:17
Receipt Date:	20100913
Manifest ID:	001138006GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
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:	0.3
Waste Quantity:	600
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:	20100622
Creation Date:	8/30/2010 18:30:09
Receipt Date:	20100623
Manifest ID:	001138105GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100622
Creation Date:	8/30/2010 18:30:46
Receipt Date:	20100624
Manifest ID:	001138112GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES 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:	1.045
Waste Quantity:	275
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:	20100426
Creation Date:	8/3/2010 18:30:10
Receipt Date:	20100426
Manifest ID:	001138179GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
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:	0.627
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

Shipment Date:	20100323
Creation Date:	6/29/2010 18:30:32
Receipt Date:	20100329
Manifest ID:	001138227GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H129 - Other Treatment
Quantity Tons:	0.225
Waste Quantity:	450
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:	20100323
Creation Date:	6/29/2010 18:30:08
Receipt Date:	20100325
Manifest ID:	001138246GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICES 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:	0.551
Waste Quantity:	145
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:	20100310
Creation Date:	6/10/2010 18:30:08
Receipt Date:	20100311
Manifest ID:	001138244GBF
Trans EPA ID:	CAD982359671
Trans Name:	LIGHTNING OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

MITSUBISHI ELECTRIC & ELECTRONIC USA INC (Continued) **S113110289**

TSDF EPA ID: CAD099452708
Trans Name: INDUSTRIAL SERVICES 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: 0.209
Waste Quantity: 55
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

HWTS:
Name: MITSUBISHI ELECTRIC & ELECTRONIC USA INC
Address: 5757 PLAZA DRIVE
Address 2: Not reported
City,State,Zip: CYPRESS, CA 906300000
EPA ID: CAL000218987
Inactive Date: 08/28/2012
Create Date: 01/10/2001
Last Act Date: 10/15/2013
Mailing Name: Not reported
Mailing Address: 5665 PLAZA DR
Mailing Address 2: Not reported
Mailing City,State,Zip: CYPRESS, CA 906300007
Owner Name: MITSUBISHI ELECTRIC & ELECTRON
Owner Address: 5665 PLAZA DR
Owner Address 2: Not reported
Owner City,State,Zip: CYPRESS, CA 906300000
Contact Name: AL SCHUYLER
Contact Address: 5665 PLAZA DR
Contact Address 2: Not reported
City,State,Zip: CYPRESS, CA 906300007

NAICS:
EPA ID: CAL000218987
Create Date: 2002-03-14 16:36:29.000
NAICS Code: 23595
NAICS Description: Building Equipment and Other Machinery Installation Contractors
Issued EPA ID Date: 2001-01-10 00:00:00
Inactive Date: 2012-08-28 00:00:00
Facility Name: MITSUBISHI ELECTRIC & ELECTRONIC USA INC
Facility Address: 5757 PLAZA DRIVE
Facility Address 2: Not reported
Facility City: CYPRESS
Facility County: Not reported
Facility State: CA
Facility Zip: 906300000

A6 **MITSUBISHI ELECTRIC AUTOMOTIVE AMERICA I** **HAZNET** **S113001327**
Target **5757 PLAZA AVE** **HWTS** **N/A**
Property **CYPRESS, CA 90221**

Site 6 of 10 in cluster A

Actual: **38 ft.**

HAZNET:

Name:	MITSUBISHI ELECTRIC AUTOMOTIVE AMERICA I
Address:	5757 PLAZA AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 902210000
Contact:	MARK UPTON
Telephone:	7142204741
Mailing Name:	Not reported
Mailing Address:	PO B OX 6007
Year:	1999
Gepaid:	CAD063801047
TSD EPA ID:	CAD028409019
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	T01 - Treatment, Tank
Tons:	2.52
Year:	1998
Gepaid:	CAD063801047
TSD EPA ID:	UTD048406144
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	*** - Invalid Code
Tons:	0.05
Year:	1998
Gepaid:	CAD063801047
TSD EPA ID:	UTD048406144
CA Waste Code:	513 - Empty containers less than 30 gallons
Disposal Method:	-
Tons:	0.0475
Year:	1998
Gepaid:	CAD063801047
TSD EPA ID:	UTD048406144
CA Waste Code:	513 - Empty containers less than 30 gallons
Disposal Method:	*** - Invalid Code
Tons:	0.05
Year:	1994
Gepaid:	CAD063801047
TSD EPA ID:	CAD981458466
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	R01 - Recycler
Tons:	0.988
Year:	1993
Gepaid:	CAD063801047
TSD EPA ID:	CAT080013352
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	R01 - Recycler
Tons:	2.31

MITSUBISHI ELECTRIC AUTOMOTIVE AMERICA I (Continued) **S113001327**

Year: 1990
Gepaid: CAD063801047
TSD EPA ID: CAD009452657
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: D99 - Disposal, Other
Tons: 1.8348

Year: 1989
Gepaid: CAD063801047
TSD EPA ID: CAD020748125
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: D80 - Disposal, Land Fill
Tons: 0.95

Year: 1988
Gepaid: CAD063801047
TSD EPA ID: CAD020748125
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: D80 - Disposal, Land Fill
Tons: 1.2642

Year: 1986
Gepaid: CAD063801047
TSD EPA ID: CAD020748125
CA Waste Code: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: 03 -
Tons: 0

Click this hyperlink while viewing on your computer to access additional CA HAZNET: detail in the EDR Site Report.

Additional Info:
Year: 1994
Gen EPA ID: CAD063801047

Shipment Date: 19940209
Creation Date: 9/15/1995 0:00:00
Receipt Date: 19940210
Manifest ID: 93018404
Trans EPA ID: CAD983668989
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD981458466
Trans Name: Not reported
TSDF Alt EPA ID: CAD981458466
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 0.988
Waste Quantity: 260
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported

MITSUBISHI ELECTRIC AUTOMOTIVE AMERICA I (Continued) **S113001327**

Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 1993
Gen EPA ID: CAD063801047

Shipment Date: 19930823
Creation Date: 9/14/1995 0:00:00
Receipt Date: 19931220
Manifest ID: 92659699
Trans EPA ID: CAD981422140
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: 331 - Off-specification, aged, or surplus organics
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 1.32
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

Shipment Date: 19930811
Creation Date: 9/14/1995 0:00:00
Receipt Date: 19931220
Manifest ID: 92659657
Trans EPA ID: CAD981422140
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: 331 - Off-specification, aged, or surplus organics
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 0.99
Waste Quantity: 300
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

MITSUBISHI ELECTRIC AUTOMOTIVE AMERICA I (Continued) **S113001327**

Year:	1999
Gen EPA ID:	CAD063801047
Shipment Date:	19991015
Creation Date:	11/22/1999 0:00:00
Receipt Date:	19991015
Manifest ID:	98811866
Trans EPA ID:	CAD982030173
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D001
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	2.52
Waste Quantity:	600
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1998
Gen EPA ID:	CAD063801047
Shipment Date:	19981020
Creation Date:	12/10/1998 0:00:00
Receipt Date:	19981027
Manifest ID:	98335160
Trans EPA ID:	UTD048406144
Trans Name:	Not reported
Trans 2 EPA ID:	UTD981552425
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD048406144
Trans Name:	Not reported
TSDF Alt EPA ID:	UTD048406144
TSDF Alt Name:	Not reported
Waste Code Description:	513 - Empty containers less than 30 gallons
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.0475
Waste Quantity:	95
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:	19980909
Creation Date:	11/2/1998 0:00:00

MITSUBISHI ELECTRIC AUTOMOTIVE AMERICA I (Continued) **S113001327**

Receipt Date:	19980914
Manifest ID:	98335068
Trans EPA ID:	UTD048406144
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD048406144
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	513 - Empty containers less than 30 gallons
RCRA Code:	D001
Meth Code:	*** - Invalid Code
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19980407
Creation Date:	5/26/1998 0:00:00
Receipt Date:	19980409
Manifest ID:	98334810
Trans EPA ID:	UTD048406144
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD048406144
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D001
Meth Code:	*** - Invalid Code
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	MITSUBISHI ELECTRIC AUTOMOTIVE AMERICA I
Address:	5757 PLAZA AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 902210000
EPA ID:	CAD063801047
Inactive Date:	06/30/2000
Create Date:	04/10/1987
Last Act Date:	09/14/2004
Mailing Name:	Not reported
Mailing Address:	PO B OX 6007

MITSUBISHI ELECTRIC AUTOMOTIVE AMERICA I (Continued) **S113001327**

Mailing Address 2:	Not reported
Mailing City,State,Zip:	CYPRESS, CA 906300007
Owner Name:	MITSUBISHI ELECTRIC AMERICA IN
Owner Address:	PO B OX 6007
Owner Address 2:	Not reported
Owner City,State,Zip:	CYPRESS, CA 906300007
Contact Name:	MARK UPTON
Contact Address:	INACTIVE PER VQ00 - BMI
Contact Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300007

A7 **RREEF MGMT CO INC** **HWTS** **S124599954**
Target **5665 PLAZA DR** **N/A**
Property **CYPRESS, CA 90630**

Site 7 of 10 in cluster A

Actual: **38 ft.**

HWTS:

Name:	RREEF MGMT CO INC
Address:	5665 PLAZA DR
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
EPA ID:	CAC002639408
Inactive Date:	08/17/2009
Create Date:	02/17/2009
Last Act Date:	08/26/2009
Mailing Name:	Not reported
Mailing Address:	575 ANTON BLVD STE 550
Mailing Address 2:	Not reported
Mailing City,State,Zip:	COSTA MESA, CA 926261937
Owner Name:	RREEF MGMT CO INC
Owner Address:	575 ANTON BLVD STE 550
Owner Address 2:	Not reported
Owner City,State,Zip:	COSTA MESA, CA 926261937
Contact Name:	LESLIE LAGUA
Contact Address:	575 ANTON BLVD STE 550
Contact Address 2:	Not reported
City,State,Zip:	COSTA MESA, CA 926261937

A8 **MITSUBISHI ELECTRIC SALES AMER** **EMI** **S105724926**
Target **5757 PLAZA DR** **N/A**
Property **CYPRESS, CA 90630**

Site 8 of 10 in cluster A

Actual: **38 ft.**

EMI:

Name:	MITSUBISHI ELECTRIC SALES AMER
Address:	5757 PLAZA DR
City,State,Zip:	CYPRESS, CA 906300000
Year:	1987
County Code:	30
Air Basin:	SC
Facility ID:	47638
Air District Name:	SC
SIC Code:	9999
Air District Name:	SOUTH COAST AQMD

MITSUBISHI ELECTRIC SALES AMER (Continued) **S105724926**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	MITSUBISHI ELECTRIC SALES AMER
Address:	5757 PLAZA DR
City,State,Zip:	CYPRESS, CA 906300000
Year:	1990
County Code:	30
Air Basin:	SC
Facility ID:	47638
Air District Name:	SC
SIC Code:	3651
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

A9 **MITSUBISHI ELECTRIC SALES AMERICA, INC** **RCRA-SQG** **1000390194**
Target **5757 PLAZA DR** **CAD063801047**
Property **CYPRESS, CA 90630**

Site 9 of 10 in cluster A

Actual: **38 ft.**

RCRA-SQG:

Date Form Received by Agency:	1996-09-01 00:00:00.0
Handler Name:	MITSUBISHI ELECTRIC SALES AMERICA, INC
Handler Address:	5757 PLAZA DR
Handler City,State,Zip:	CYPRESS, CA 90630
EPA ID:	CAD063801047
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	CA
State District:	4

MITSUBISHI ELECTRIC SALES AMERICA, INC (Continued) **1000390194**

Mailing Address:	5757 PLAZA DR
Mailing City,State,Zip:	CYPRESS, CA 90630
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	NOT REQUIRED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2002-06-27 03:20:31.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No

MITSUBISHI ELECTRIC SALES AMERICA, INC (Continued) **1000390194**

Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: Not reported
Manifest Broker: Not reported
Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: MITSUBISHI ELECTRIC SALES AMERICA, INC
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: 1996-09-01 00:00:00.0
Handler Name: MITSUBISHI ELECTRIC SALES AMERICA, INC
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

Receive Date: 1986-02-28 00:00:00.0
Handler Name: MITSUBISHI ELECTRIC SALES AMERICA, INC
Federal Waste Generator Description: Large 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: No
Non Storage Recycler Activity: Not reported

MITSUBISHI ELECTRIC SALES AMERICA, INC (Continued) **1000390194**

Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 1994-05-09 00:00:00.0
Evaluation Responsible Agency: State Contractor/Grantee
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported

MITSUBISHI ELECTRIC SALES AMERICA, INC (Continued) **1000390194**

Former Citation: Not reported

A10 **CONTRACT APPLICATIONS INC** **HAZNET** **S123779296**
Target **5757 PLAZA DR** **HWTS** **N/A**
Property **CYPRESS, CA 90630**

Site 10 of 10 in cluster A

Actual:
38 ft.

HAZNET:

Name:	CONTRACT APPLICATIONS INC
Address:	5757 PLAZA DR
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
Contact:	BARRY MONLON
Telephone:	7146300800
Mailing Name:	Not reported
Mailing Address:	P O BOX 553
Year:	1985
Gepaid:	CAX000147454
TSD EPA ID:	CAT000646117
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	D99 - Disposal, Other
Tons:	3.6696

HWTS:

Name:	CONTRACT APPLICATIONS INC
Address:	5757 PLAZA DR
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
EPA ID:	CAX000147454
Inactive Date:	04/30/1986
Create Date:	02/11/1985
Last Act Date:	07/10/2001
Mailing Name:	Not reported
Mailing Address:	P O BOX 553
Mailing Address 2:	Not reported
Mailing City,State,Zip:	MINNEAPOLIS, MN 554400000
Owner Name:	--
Owner Address:	--
Owner Address 2:	Not reported
Owner City,State,Zip:	--, 99 --
Contact Name:	BARRY MONLON
Contact Address:	--
Contact Address 2:	Not reported
City,State,Zip:	--, 99 --

DOD **LOS ALAMITOS ARMED FORCES RESERVE CENTER** **DOD** **CUSA143754**
Region **N/A**
South **LOS ALAMITOS ARMED FORCES (County), CA**
1/4-1/2
1621 ft.

DOD:
Feature 1: Army DOD
Feature 2: Not reported
Feature 3: Not reported
URL: Not reported
Name 1: Los Alamitos Armed Forces Reserve Center
Name 2: Not reported
Name 3: Not reported
State: CA
DOD Site: Yes
Tile name: CAORANGE

B11 **PRECISION FERRITES & CERAMICS** **RCRA-SQG** **1000172318**
NW **5576 CORPORATE DR** **FINDS** **CAD981368418**
< 1/8 **CYPRESS, CA 90630** **ECHO**
0.018 mi. **HAZNET**
95 ft. **Site 1 of 4 in cluster B** **HWTS**

Relative: RCRA-SQG:
Higher

Actual:
38 ft.

Date Form Received by Agency:	1996-09-01 00:00:00.0
Handler Name:	PRECISION FERRITES & CERAMICS
Handler Address:	5576 CORPORATE DR
Handler City,State,Zip:	CYPRESS, CA 90630
EPA ID:	CAD981368418
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	CA
State District:	4
Mailing Address:	5576 CORPORATE DR
Mailing City,State,Zip:	CYPRESS, CA 90630
Owner Name:	Not reported
Owner Type:	Not reported
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

PRECISION FERRITES & CERAMICS (Continued) **1000172318**

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:	2002-06-27 03:24:07.0
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

PRECISION FERRITES & CERAMICS (Continued) **1000172318**

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: SUNG MO HONG
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: 1996-09-01 00:00:00.0
Handler Name: PRECISION FERRITES & CERAMICS
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

Receive Date: 1986-01-22 00:00:00.0
Handler Name: PRECISION FERRITES & CERAMICS
Federal Waste Generator Description: Large 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 333319
NAICS Description: OTHER COMMERCIAL AND SERVICE INDUSTRY MACHINERY MANUFACTURING

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported

PRECISION FERRITES & CERAMICS (Continued) **1000172318**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	1994-08-08 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:

Registry ID: 110002682605

Click Here:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

PRECISION FERRITES & CERAMICS (Continued) **1000172318**

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:	1000172318
Registry ID:	110002682605
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002682605
Name:	PRECISION FERRITES & CERAMICS
Address:	5576 CORPORATE DR
City,State,Zip:	CYPRESS, CA 90630

HAZNET:

Name:	PRECISION FERRITES & CERAMICS
Address:	5576 CORPORATE DR
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
Contact:	VP & GM
Telephone:	7148289061
Mailing Name:	Not reported
Mailing Address:	5432 PRODUCTION DR
Year:	2016
Gepaid:	CAD981368418
TSD EPA ID:	AZR000501510
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:	0.9075
Year:	1996
Gepaid:	CAD981368418
TSD EPA ID:	CAD050099696
CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	R01 - Recycler
Tons:	0.168
Year:	1995
Gepaid:	CAD981368418
TSD EPA ID:	CAD050099696
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	R01 - Recycler
Tons:	0.57
Year:	1995
Gepaid:	CAD981368418
TSD EPA ID:	CAD028409019
CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	T01 - Treatment, Tank
Tons:	5.04
Year:	1995
Gepaid:	CAD981368418
TSD EPA ID:	UTD991301748
CA Waste Code:	491 - Unspecified sludge waste
Disposal Method:	D80 - Disposal, Land Fill

PRECISION FERRITES & CERAMICS (Continued) **1000172318**

Tons: 3.1

Year: 1994
Gepaid: CAD981368418
TSD EPA ID: UTD991301748
CA Waste Code: 491 - Unspecified sludge waste
Disposal Method: D80 - Disposal, Land Fill
Tons: 0

Year: 1992
Gepaid: CAD981368418
TSD EPA ID: UTD991301748
CA Waste Code: 491 - Unspecified sludge waste
Disposal Method: D80 - Disposal, Land Fill
Tons: 1.2

Year: 1992
Gepaid: CAD981368418
TSD EPA ID: CAT080011059
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: R01 - Recycler
Tons: 0.2293

Year: 1991
Gepaid: CAD981368418
TSD EPA ID: UTD991301748
CA Waste Code: 491 - Unspecified sludge waste
Disposal Method: D99 - Disposal, Other
Tons: 1.125

Year: 1991
Gepaid: CAD981368418
TSD EPA ID: CAD981696420
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H01 - Transfer Station
Tons: 0.2293

Click this hyperlink while viewing on your computer to access
3 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 1995
Gen EPA ID: CAD981368418

Shipment Date: 19951208
Creation Date: 10/16/1996 0:00:00
Receipt Date: 19951211
Manifest ID: 95446612
Trans EPA ID: CAD981373665
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD050099696
Trans Name: Not reported
TSDF Alt EPA ID: CAD050099696
TSDF Alt Name: Not reported

PRECISION FERRITES & CERAMICS (Continued) **1000172318**

Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
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
Shipment Date:	19951021
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951023
Manifest ID:	95714468
Trans EPA ID:	CA0000035576
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	5.04
Waste Quantity:	1200
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:	19950921
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19950921
Manifest ID:	95446908
Trans EPA ID:	CAD981373665
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050099696
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.19
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

PRECISION FERRITES & CERAMICS (Continued) **1000172318**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19950713
Creation Date:	4/2/1996 0:00:00
Receipt Date:	19950724
Manifest ID:	95586281
Trans EPA ID:	CAD983668583
Trans Name:	Not reported
Trans 2 EPA ID:	CAD081157166
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD991301748
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	3.1
Waste Quantity:	6200
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:	1994
Gen EPA ID:	CAD981368418
Shipment Date:	19940826
Creation Date:	3/26/1996 0:00:00
Receipt Date:	19940901
Manifest ID:	93119121
Trans EPA ID:	CAD983668583
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD991301748
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	491 - Unspecified sludge waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0
Waste Quantity:	3000
Quantity Unit:	*
Additional 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:

PRECISION FERRITES & CERAMICS (Continued) **1000172318**

Year:	1996
Gen EPA ID:	CAD981368418
Shipment Date:	19960613
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19960614
Manifest ID:	95790886
Trans EPA ID:	CAD981373665
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050099696
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.168
Waste Quantity:	40
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	PRECISION FERRITES & CERAMICS
Address:	5576 CORPORATE DR
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
EPA ID:	CAD981368418
Inactive Date:	06/30/1997
Create Date:	04/10/1987
Last Act Date:	09/14/2004
Mailing Name:	Not reported
Mailing Address:	5432 PRODUCTION DR
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HUNTINGTON BEACH, CA 926494709
Owner Name:	--
Owner Address:	--
Owner Address 2:	Not reported
Owner City,State,Zip:	--, 99 --
Contact Name:	VP & GM
Contact Address:	5576 CORPORATE DR INACTIVED
Contact Address 2:	VQ97 LC
City,State,Zip:	CYPRESS, CA 906300000

B12 **FOCUS DIAGNOSTICS** **RCRA-SQG** **1000339318**
WNW **10743 PROGRESS WAY** **FINDS** **CAD982323024**
< 1/8 **CYPRESS, CA 90630** **ECHO**
0.034 mi.
179 ft. **Site 2 of 4 in cluster B**

Relative: **Lower**
Actual: **37 ft.**

RCRA-SQG:

Date Form Received by Agency:		2005-03-03 00:00:00.0
Handler Name:	FOCUS DIAGNOSTICS	
Handler Address:		10743 PROGRESS WAY
Handler City,State,Zip:		CYPRESS, CA 90630
EPA ID:		CAD982323024
Contact Name:		SARA J MARTIN
Contact Address:		10703 PROGRESS WAY
Contact City,State,Zip:		CYPRESS, CA 90630
Contact Telephone:		714-220-1900 2508
Contact Fax:		Not reported
Contact Email:		SMARTIN@FOCUSTECHNOLOGIES.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:		10703 PROGRESS WAY
Mailing City,State,Zip:		CYPRESS, CA 90630
Owner Name:		ANTHONY M DESISTO TRUSTEE
Owner Type:		Private
Operator Name:		FOCUS DIAGNOSTICS
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		Yes
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

FOCUS DIAGNOSTICS (Continued) **1000339318**

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:	2005-06-15 14:19:01.0
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:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D003
Waste Description:	REACTIVE WASTE
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	D022
Waste Description:	CHLOROFORM
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

FOCUS DIAGNOSTICS (Continued) **1000339318**

USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: P105
Waste Description: SODIUM AZIDE

Waste Code: U007
Waste Description: 2-PROPENAMIDE (OR) ACRYLAMIDE

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: ANTHONY M DESISTO TRUSTEE
Legal Status: Private
Date Became Current: 1994-10-27 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 732
Owner/Operator City,State,Zip: EL SEGUNDO, CA 90245
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

FOCUS DIAGNOSTICS (Continued) **1000339318**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ANTHONY M DESISTO TRUSTEE
Legal Status:	Private
Date Became Current:	1994-10-27 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 732
Owner/Operator City,State,Zip:	EL SEGUNDO, CA 90245
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:	MCDONNELL DOUGLAS
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:	FOCUS DIAGNOSTICS
Legal Status:	Private
Date Became Current:	2004-11-01 00:00:00.
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:	Operator
Owner/Operator Name:	FOCUS TECH
Legal Status:	Private
Date Became Current:	1989-07-01 00:00:00.
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

Historic Generators:

Receive Date:	1988-02-09 00:00:00.0
Handler Name: MCDONNELL DOUGLAS	
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

FOCUS DIAGNOSTICS (Continued) **1000339318**

Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2004-09-07 00:00:00.0
Handler Name: FOCUS TECHNOLOGIES
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: 2005-03-03 00:00:00.0
Handler Name: FOCUS DIAGNOSTICS
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: 325413
NAICS Description: IN-VITRO DIAGNOSTIC SUBSTANCE MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002794147

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FOCUS DIAGNOSTICS (Continued) **1000339318**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000339318
Registry ID:	110002794147
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002794147
Name:	FOCUS DIAGNOSTICS
Address:	10743 PROGRESS WAY
City,State,Zip:	CYPRESS, CA 90630

B13 **AST** **A100340734**
NW **5575 CORPORATE AVE** **N/A**
< 1/8 **CYPRESS, CA**
0.043 mi.
228 ft. **Site 3 of 4 in cluster B**

Relative:
Higher

Actual:
38 ft.

AST:

Name:	Not reported
Address:	5575 CORPORATE AVE
City/Zip:	CYPRESS,
Certified Unified Program Agencies:	Orange
Owner:	TIME WARNER CABLE
Total Gallons:	1,320
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

B14 **CA-959 PHONESWITCH/HEADEND - CYPRESS (TIME WARNER** **AST** **A100418003**
NW **5575 CORPORATE AVE** **N/A**
< 1/8 **CYPRESS, CA 90630**
0.043 mi.
228 ft. **Site 4 of 4 in cluster B**

Relative: AST:
Higher

Actual: Name: CA-959 PHONESWITCH/HEADEND - CYPRESS (TIME WARNER CABLE, INC.)
38 ft. Address: 5575 CORPORATE AVE
City/Zip: CYPRESS,90630
Certified Unified Program Agencies: Not reported
Owner: TIME WARNER CABLE, INC.
Total Gallons: Not reported
CERSID: 10415527
Facility ID: Not reported
Business Name: Time Warner Cable, Inc.
Phone: 203-328-0600
Fax: N/A
Mailing Address: 5575 CORPORATE AVENUE
Mailing Address City: CYPRESS
Mailing Address State: CA
Mailing Address Zip Code: 90630
Operator Name: TIME WARNER CABLE, INC.
Operator Phone: 203-328-0600
Owner Phone: 7047313976
Owner Mail Address: 7815 Crescent Executive Drive
Owner State: NC
Owner Zip Code: 28217
Owner Country: United States
Property Owner Name: Not reported
Property Owner Phone: Not reported
Property Owner Mailing Address: Not reported
Property Owner City: Not reported
Property Owner Stat : Not reported
Property Owner Zip Code: Not reported
Property Owner Country: Not reported
EPAID: Not reported

C15 **YASKAWA** **RCRA-SQG** **1009311758**
North **5626 CORPORATE AVE** **CAR000171660**
< 1/8 **CYPRESS, CA 90630**
0.054 mi.
287 ft. **Site 1 of 6 in cluster C**

Relative: RCRA-SQG:
Higher

Actual: Date Form Received by Agency: 2006-02-27 00:00:00.0
39 ft. Handler Name: YASKAWA
Handler Address: 5626 CORPORATE AVE
Handler City,State,Zip: CYPRESS, CA 90630-4728
EPA ID: CAR000171660
Contact Name: SUE PFLUEGER
Contact Address: 5626 CORPORATE AVE
Contact City,State,Zip: CYPRESS, CA 90630-4728
Contact Telephone: 714-503-4712
Contact Fax: Not reported
Contact Email: SUE_PFLUEGER@YASKAWA.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Private
Federal Waste Generator Description: Small Quantity Generator

YASKAWA (Continued) **1009311758**

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:	5626 CORPORATE AVE
Mailing City,State,Zip:	CYPRESS, CA 90630-4728
Owner Name:	ACCURIDE INTERNATIONAL
Owner Type:	Private
Operator Name:	YASKAWA ELECTRIC AMERICA
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

YASKAWA (Continued) **1009311758**

Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2006-04-10 12:53:21.0
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:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D003
Waste Description:	REACTIVE WASTE
Waste Code:	D009
Waste Description:	MERCURY

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ACCURIDE INTERNATIONAL
Legal Status:	Private
Date Became Current:	2003-06-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	12311 SHOEMAKER AVE
Owner/Operator City,State,Zip:	SANTA FE SPRINGS, CA 90670
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	YASKAWA ELECTRIC AMERICA
Legal Status:	Private
Date Became Current:	1993-03-01 00:00:00.
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

Historic Generators:

Receive Date:	2006-02-27 00:00:00.0
Handler Name: YASKAWA	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No

YASKAWA (Continued) **1009311758**

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:	335312
NAICS Description:	MOTOR AND GENERATOR MANUFACTURING
NAICS Code:	42361
NAICS Description:	ELECTRICAL APPARATUS AND EQUIPMENT, WIRING SUPPLIES, AND RELATED EQUIPMENT MERCHANT WHOLESALERS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

C16 **MOBIL CORPORATION** **EDR Hist Auto** **1021166090**
North **5636 CORPORATE AVE 4** **N/A**
< 1/8 **CYPRESS, CA 90630**
0.057 mi.
303 ft. **Site 2 of 6 in cluster C**

Relative: EDR Hist Auto
Higher

Actual:
39 ft.

Year:	Name:	Type:
1991	MOBIL CORPORATION	Gasoline Service Stations
1992	MOBIL CORPORATION	Gasoline Service Stations

C17 **LINOTYPE HELL CO** **RCRA-SQG** **1000857665**
North **5646 CORPORATE AVE** **FINDS** **CAD983671108**
< 1/8 **CYPRESS, CA 90630** **ECHO**
0.060 mi. **HAZNET**
318 ft. **Site 3 of 6 in cluster C** **HWTS**

Relative: RCRA-SQG:
Higher

Actual:
39 ft.

Date Form Received by Agency:		1993-07-13 00:00:00.0
Handler Name:	LINOTYPE HELL CO	
Handler Address:		5646 CORPORATE AVE
Handler City,State,Zip:		CYPRESS, CA 90630
EPA ID:		CAD983671108
Contact Name:		KATHLEEN HADDEN
Contact Address:		425 OSER AVE
Contact City,State,Zip:		HAUPPAUGE, NY 11788
Contact Telephone:		516-434-2627
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09

LINOTYPE HELL CO (Continued) **1000857665**

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:	5646 CORPORATE AVE
Mailing City,State,Zip:	CYPRESS, CA 90630
Owner Name:	LINOTYPE HELL CO
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

LINOTYPE HELL CO (Continued) **1000857665**

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:	2002-06-27 03:37:07.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	LINOTYPE HELL CO
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	425 OSER AVE
Owner/Operator City,State,Zip:	HAUPPAUGE, NY 11788
Owner/Operator Telephone:	516-434-2000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1993-07-13 00:00:00.0
Handler Name: LINOTYPE HELL CO	
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 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:	110002901227

LINOTYPE HELL CO (Continued) **1000857665**

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000857665
Registry ID:	110002901227
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002901227
Name:	LINOTYPE HELL CO
Address:	5646 CORPORATE AVE
City,State,Zip:	CYPRESS, CA 90630

HAZNET:

Name:	LINOTYPE HELL CO
Address:	5646 CORPORATE AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
Contact:	UNDELIVERABLE 1996 FEES FORM
Telephone:	5164342627
Mailing Name:	Not reported
Mailing Address:	5646 CORPORATE AVE
Year:	1993
Gepaid:	CAD983671108
TSD EPA ID:	CAD982524613
CA Waste Code:	541 - Photochemicals/photoprocessing waste
Disposal Method:	R01 - Recycler
Tons:	0.3544

Additional Info:

Year:	1993
Gen EPA ID:	CAD983671108
Shipment Date:	19931029
Creation Date:	9/13/1995 0:00:00
Receipt Date:	19931101
Manifest ID:	93171825
Trans EPA ID:	CAD982524613
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982524613
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste

LINOTYPE HELL CO (Continued) **1000857665**

RCRA Code:	D011
Meth Code:	R01 - Recycler
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:	19931018
Creation Date:	9/13/1995 0:00:00
Receipt Date:	19931021
Manifest ID:	93171655
Trans EPA ID:	CAD982524613
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982524613
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.1459
Waste Quantity:	35
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19931012
Creation Date:	9/12/1995 0:00:00
Receipt Date:	19931013
Manifest ID:	93172299
Trans EPA ID:	CAD982524613
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982524613
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	R01 - Recycler
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

LINOTYPE HELL CO (Continued) **1000857665**

Additional Code 5: Not reported

HWTS:
Name: LINOTYPE HELL CO
Address: 5646 CORPORATE AVE
Address 2: Not reported
City,State,Zip: CYPRESS, CA 906300000
EPA ID: CAD983671108
Inactive Date: 06/30/1996
Create Date: 12/08/1995
Last Act Date: 07/06/2010
Mailing Name: Not reported
Mailing Address: 5646 CORPORATE AVE
Mailing Address 2: Not reported
Mailing City,State,Zip: CYPRESS, CA 906300000
Owner Name: LINOTYPE HELL CO
Owner Address: 425 OSER AVE
Owner Address 2: Not reported
Owner City,State,Zip: CYPRESS, NY 117880000
Contact Name: UNDELIVERABLE 1996 FEES FORM
Contact Address: 425 OSER AVE
Contact Address 2: Not reported
City,State,Zip: CYPRESS, NY 117880000

D18 **MARKEM IMAJE CORP** **RCRA NonGen / NLR** **1024857178**
East **10800 VALLEY VIEW STREET** **CAL000422217**
< 1/8 **CYPRESS, CA 90630**
0.061 mi.
321 ft. **Site 1 of 5 in cluster D**

Relative: **Higher**
Actual: **38 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 2016-11-17 00:00:00.0
Handler Name: MARKEM IMAJE CORP
Handler Address: 10800 VALLEY VIEW STREET
Handler City,State,Zip: CYPRESS, CA 90630
EPA ID: CAL000422217
Contact Name: DAVID RAMIREZ
Contact Address: 10800 VALLEY VIEW STREET
Contact City,State,Zip: CYPRESS, CA 90630
Contact Telephone: 855-240-9409
Contact Fax: 714-826-2350
Contact Email: DRAMIREZ@MARKEM-IMAJE.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: 10800 VALLEY VIEW STREET
Mailing City,State,Zip: CYPRESS, CA 90630
Owner Name: MARKEM-IMAJE COMPANIES
Owner Type: Other
Operator Name: DAVID RAMIREZ

MARKEM IMAJE CORP (Continued) **1024857178**

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:	2018-09-07 19:35:15.0
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

MARKEM IMAJE CORP (Continued) **1024857178**

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MARKEM-IMAJE COMPANIES
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	150 CONGRESS STREET
Owner/Operator City,State,Zip:	KEENE, NH 03431
Owner/Operator Telephone:	603-352-1130
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DAVID RAMIREZ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	10800 VALLEY VIEW STREET
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	855-240-9409
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2016-11-17 00:00:00.0
Handler Name: MARKEM IMAJE CORP	
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:	339943
NAICS Description:	MARKING DEVICE MANUFACTURING

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

D19 **THE BOEING COMPANY** **ENVIROSTOR** **S103622068**
East **10800 VALLEY VIEW ST** **CERS HAZ WASTE** **N/A**
< 1/8 **CYPRESS, CA 90630** **Orange Co. Industrial Site**
0.061 mi. **EMI**
321 ft. **Site 2 of 5 in cluster D** **HAZNET**
NPDES
Relative: Higher **CERS**
HWTS
Actual: 38 ft.

ENVIROSTOR:

Name:	BOEING CYPRESS FACILITY - BUILDING 230
Address:	10800 VALLEY VIEW STREET
City,State,Zip:	CYPRESS, CA 90630
Facility ID:	30990005
Status:	Refer: 1248 Local Agency
Status Date:	09/02/2004
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Cypress
Assembly:	67
Senate:	Not reported
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not Applicable
Latitude:	33.80638
Longitude:	-118.0276
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	30990005
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

THE BOEING COMPANY (Continued) **S103622068**

CERS HAZ WASTE:

Name:	COOK COMPRESSION
Address:	10800 VALLEY VIEW ST
City,State,Zip:	CYPRESS, CA 90630
Site ID:	409544
CERS ID:	10709341
CERS Description:	Hazardous Waste Generator

Name:	OK INTERNATIONAL
Address:	10800 VALLEY VIEW ST
City,State,Zip:	CYPRESS, CA 90630
Site ID:	517828
CERS ID:	10783327
CERS Description:	Hazardous Waste Generator

Orange Co. Industrial Site:

Name:	THE BOEING COMPANY
Address:	10800 VALLEY VIEW ST
City,State,Zip:	CYPRESS, CA 90630
Case ID:	04IC015
Record ID:	RO0003315
Current Status:	CLOSED 1/27/2005
Closure Type:	Closure certification issued
Released Chemical:	OIL AND WATER

EMI:

Name:	VAREC DIV, EMERSON ELECTRIC CO
Address:	10800 VALLEY VIEW ST
City,State,Zip:	CYPRESS, CA 906300000
Year:	1987
County Code:	30
Air Basin:	SC
Facility ID:	23960
Air District Name:	SC
SIC Code:	3444
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5
Reactive Organic Gases Tons/Yr:	4
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	VAREC DIV, ROSEMOUNT, INC.
Address:	10800 VALLEY VIEW ST
City,State,Zip:	CYPRESS, CA 906300000
Year:	1990
County Code:	30
Air Basin:	SC
Facility ID:	23960
Air District Name:	SC
SIC Code:	3599
Air District Name:	SOUTH COAST AQMD

THE BOEING COMPANY (Continued) **S103622068**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HAZNET:

Name:	OK INTERNATIONAL
Address:	10800 VALLEY VIEW ST
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
Contact:	JOSEPH COGGINS
Telephone:	7142302314
Mailing Name:	Not reported
Mailing Address:	10800 VALLEY VIEW
Year:	2019
Gepaid:	CAL000419425
TSD EPA ID:	NED981723513
CA Waste Code:	281 - Adhesives
Disposal Method:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	0.00750
Year:	2019
Gepaid:	CAL000419425
TSD EPA ID:	NED981723513
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	0.01500
Year:	2019
Gepaid:	CAL000419425
TSD EPA ID:	CAD044429835
CA Waste Code:	513 - Empty containers less than 30 gallons
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.05000
Year:	2019
Gepaid:	CAL000419425
TSD EPA ID:	CAD044429835
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:	0.08750
Year:	2019
Gepaid:	CAL000419425
TSD EPA ID:	CAD980675276
CA Waste Code:	291 - Latex waste
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.01250

THE BOEING COMPANY (Continued) **S103622068**

Year:	2019
Gepaid:	CAL000419425
TSD EPA ID:	CAD044429835
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:	0.00750

Year:	2019
Gepaid:	CAL000419425
TSD EPA ID:	CAD044429835
CA Waste Code:	141 - Off-specification, aged or surplus inorganics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.00750

Year:	2019
Gepaid:	CAL000419425
TSD EPA ID:	UTD981552177
CA Waste Code:	281 - Adhesives
Disposal Method:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	0.00750

NPDES:

Name:	OK INTERNATIONAL
Address:	10800 VALLEY VIEW ST
City,State,Zip:	CYPRESS, CA 90630
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:	8 30IN604167
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:	NOI Required
Status Date:	01/09/2018
Operator Name:	OK International
Operator Address:	10800 Valley View St
Operator City:	Cypress
Operator State:	California
Operator Zip:	90630

CERS:

THE BOEING COMPANY (Continued) **S103622068**

Name: ROSEMOUNT INC/VAREC DIV
Address: 10800 VALLEY VIEW ST
City,State,Zip: CYPRESS, CA 90630
Site ID: 490923
CERS ID: 110064277900
CERS Description: US EPA Air Emission Inventory System (EIS)

Name: OK INTERNATIONAL
Address: 10800 VALLEY VIEW ST
City,State,Zip: CYPRESS, CA 90630
Site ID: 517828
CERS ID: 10783327
CERS Description: Chemical Storage Facilities

Coordinates:
Site ID: 517828
Facility Name: OK International
Env Int Type Code: HMBP
Program ID: 10783327
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.806160
Longitude: -118.026620

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6406

Affiliation Type Desc: Legal Owner
Entity Name: Dover Corp.
Entity Title: Not reported
Affiliation Address: 10800 Valley View St.
Affiliation City: Cpress
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90630
Affiliation Phone: (714) 799-9910

Affiliation Type Desc: Property Owner
Entity Name: Warland Investments
Entity Title: Not reported
Affiliation Address: 5740 Warland Dr
Affiliation City: Cypress
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90630
Affiliation Phone: (714) 895-5908

Affiliation Type Desc: Environmental Contact
Entity Name: Alex Kawasaki

THE BOEING COMPANY (Continued) **S103622068**

Entity Title:	Not reported
Affiliation Address:	10800 Valley View St
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	10800 Valley View st.
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Alex Kawasaki
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:	(562) 458-5875
Affiliation Type Desc:	Identification Signer
Entity Name:	Alex Kawasaki
Entity Title:	Facility Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	OK International
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Alex Kawasaki
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

THE BOEING COMPANY (Continued) **S103622068**

Name:	COOK COMPRESSION
Address:	10800 VALLEY VIEW ST
City,State,Zip:	CYPRESS, CA 90630
Site ID:	409544
CERS ID:	10709341
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	409544
Site Name:	Cook Compression
Violation Date:	04-10-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to 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 04/16/2020. The facility failed to submit the hazardous materials business emergency plan on CERS by the due date of March 1, 2020. Corrective action: Within 30 days, notify this Agency that the hazardous materials inventory has been submitted.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	409544
Site Name:	Cook Compression
Violation Date:	08-20-2019
Citation:	22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description:	Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes:	OBSERVATION: Hazardous waste manifests were not available for review at the time of inspection. Facility should have hazardous waste manifests on site dating back to three years. CORRECTIVE ACTION: Submit copies of the hazardous waste manifests to this Agency within 30 days to abate this violation.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	04-10-2020
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The facility has failed to submit the Hazardous Materials Business Emergency Plan by the deadline March 1, 2020. To correct the violation log on to CERS and submit the business plan for the year 2020. A copy of this report was sent to mspanial@doverprecision.com.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown

THE BOEING COMPANY (Continued) **S103622068**

Eval Date: 04-17-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed the submittal dated 4/16/2020 for sections: Facility Information, Hazardous Materials Inventory, and Emergency Response and Training Plans. All sections were accepted. Violation I463 was observed to be corrected, no further corrective action required. A copy of this report was sent to mspanial@doverprecision.com.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-19-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Hazardous waste manifests were received by this Agency. The following violation has been corrected: - I474: Failure to keep a copy of each properly signed manifest for at least three years The facility has no outstanding violations.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-16-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Cook Compression 10800 Valley View St Cypress, CA 90630 On site to conduct a routine hazardous waste inspection. Consent to enter and inspect the facility was granted by Mike Perez, Service Center Manager. This facility currently generates hazardous waste on a routine basis from repairing hydraulic cylinders. Walked throughout the facility and observed the hazardous waste storage areas. Containers of hazardous waste were stored closed and properly labeled. Containers appeared to be in good condition. Per Mike Perez, this facility has not yet had a hazardous waste pick-up. Maintain 3 years of hazardous waste manifests when they become available. Please verify your facilityG s EPA ID number or contact DTSC (Department of Toxic Substances Control) to obtain an active EPA ID number if your facility is generating hazardous waste: https://www.dtsc.ca.gov/IDManifest/index.cfm The emergency response contingency plan information sticker was provided. No [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-16-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Cook Compression 10800 Valley View St Cypress, CA 90630 On site for a routine hazardous materials and business emergency plan (BEP) inspection. Consent to enter and inspect the facility was granted by Mike Perez, Service Center Manager. Observed the facilityG s hazardous materials storage areas. Hazardous materials must be reported if the business handles an amount equal to or greater than 55 gallons of

THE BOEING COMPANY (Continued) **S103622068**

liquid, 500 pounds of solid, or 200 cubic feet of compressed gas (1,000 cubic feet threshold for gases for which the only health/physical hazards are simple asphyxiation and the release of pressure). During todayG s inspection, the following hazardous materials were observed at this facility: G 4 x 8-gallon tanks of LPG (1 on forklift) G 3 x 30-gallon drums of Armakleen parts washer solvent The Business Emergency Plan was not available for review at the time of inspection. The hazardous materials business plan and inventory must be completed and submitted [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-20-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine Hazardous Materials Business Plan (HMBP) inspection. Observed the following hazardous materials on site in reportable quantities (all sizes are approximate): - 4 x 8-gal cylinders of propane - Armakleen cleaning solution Per California Health & Safety Code Ch. 6.95, businesses that store and handle hazardous materials at or over reportable quantities (55 gal of a liquid, 500 lbs of a solid, 200 cubic ft of a compressed gas) must prepare and implement an HMBP. The HMBP must include the following elements: - Business Activities - Owner/Operator Information - Chemical Inventory - Site Map - Emergency Response Plan/Training Plan The HMBP must be submitted online through the California Environmental Reporting System (CERS) by March 1st of every year. The facility is responsible for identifying all hazardous materials, including hazardous wastes, which are at or above disclosure thresholds. If there is a change in the type of amount of [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-20-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct hazardous waste inspection. Walked the interior and exterior areas of the facility. Observed hazardous waste storage area and containers. Hazardous waste containers were empty at the time of inspection. Contingency Plan was available for review. Checked trash bin; observed no illegal disposal of hazardous waste.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-05-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS: On-site for a follow up inspection. Assisted in completing and submitting the HMBP on the CERS database. Verified the map and the inventory.

Eval Division: Orange County Environmental Health

THE BOEING COMPANY (Continued) **S103622068**

Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-05-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS: On-site for routine inspection. Met with Mike Perez this date and obtained consent to conduct the inspection. Hazardous Waste receipts made available and reviewed. HW containers properly labeled. Facility has an CERS hazardous materials disclosure that contains information for the emergency coordinator. Inspected the trash/dumpster and it does not contain hazardous waste. DTSC form 1358 was completed and submitted to the state during the inspection. The perimeter of the facility was also inspected; no signs of releases were noted.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-13-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: INSPECTOR COMMENTS: Reviewed and accepted the CERS disclosure.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 409544
Facility Name: Cook Compression
Env Int Type Code: HMBP
Program ID: 10709341
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.806440
Longitude: -118.028170

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Brian Cuellar
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 10800 Valley View St
Affiliation City: Cypress
Affiliation State: CA

THE BOEING COMPANY (Continued) **S103622068**

Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406
Affiliation Type Desc:	Operator
Entity Name:	Patty Zamano
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:	(562) 846-1637
Affiliation Type Desc:	Environmental Contact
Entity Name:	Brian Cuellar
Entity Title:	Not reported
Affiliation Address:	2605 W. 42nd St.
Affiliation City:	Odessa
Affiliation State:	TX
Affiliation Country:	Not reported
Affiliation Zip:	79764
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Brian Cuellar
Entity Title:	HSE Director
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Dover Fluids Inc
Entity Title:	Not reported
Affiliation Address:	1780 HUGHES Landing Blvd Ste 700
Affiliation City:	Woodlands
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	77381
Affiliation Phone:	(562) 846-1638
Affiliation Type Desc:	Parent Corporation
Entity Name:	Cook Compression L.A. Service Center
Entity Title:	Not reported

THE BOEING COMPANY (Continued) **S103622068**

Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: OK INTERNATIONAL
Address: 10800 VALLEY VIEW
City,State,Zip: CYPRESS, CA 90630
Site ID: 538320
CERS ID: 862606
CERS Description: Industrial Facility Storm Water

Affiliation:
Affiliation Type Desc: Owner/Operator
Entity Name: Ok International
Entity Title: Operator
Affiliation Address: 10800 Valley View
Affiliation City: Cypress
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90630
Affiliation Phone: Not reported

HWTS:
Name: OK INTERNATIONAL
Address: 10800 VALLEY VIEW ST
Address 2: Not reported
City,State,Zip: CYPRESS, CA 906305016
EPA ID: CAL000419425
Inactive Date: Not reported
Create Date: 08/11/2016
Last Act Date: 07/17/2020
Mailing Name: Not reported
Mailing Address: 10800 VALLEY VIEW
Mailing Address 2: Not reported
Mailing City,State,Zip: CYPRESS, CA 906300000
Owner Name: DOVER
Owner Address: 10800 VALLEY VIEW
Owner Address 2: Not reported
Owner City,State,Zip: CYPRESS, CA 906300000
Contact Name: AKAWASAKI
Contact Address: 10800 VALLEY VIEW ST.
Contact Address 2: Not reported
City,State,Zip: CPRESS, CA 90630

NAICS:
EPA ID: CAL000419425
Create Date: 2016-08-11 16:42:51.403
NAICS Code: 336399
NAICS Description: All Other Motor Vehicle Parts Manufacturing
Issued EPA ID Date: 2016-08-11 16:42:51.22000
Inactive Date: Not reported
Facility Name: OK INTERNATIONAL
Facility Address: 10800 VALLEY VIEW ST

THE BOEING COMPANY (Continued) **S103622068**

Facility Address 2:	Not reported
Facility City:	CYPRESS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	906305016

D20 **OK INTERNATIONAL** **RCRA NonGen / NLR** **1026490107**
East **10800 VALLEY VIEW ST** **CAL000419425**
< 1/8 **CYPRESS, CA 90630**
0.061 mi.
321 ft. **Site 3 of 5 in cluster D**

Relative: **Higher**
Actual: **38 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2016-08-11 00:00:00.0
Handler Name:	OK INTERNATIONAL	
Handler Address:		10800 VALLEY VIEW ST
Handler City,State,Zip:		CYPRESS, CA 90630-5016
EPA ID:		CAL000419425
Contact Name:		AKAWASAKI REDFIELD
Contact Address:		10800 VALLEY VIEW ST.
Contact City,State,Zip:		CPRESS, CA 90630
Contact Telephone:		714-799-9910
Contact Fax:		174-799-2100
Contact Email:		AKAWASAKI@OKINTERNATIONAL.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:		10800 VALLEY VIEW
Mailing City,State,Zip:		CYPRESS, CA 90630-0000
Owner Name:		DOVER ANGELES VODKA LLC
Owner Type:		Other
Operator Name:		AKAWASAKI REDFIELD
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:		---

OK INTERNATIONAL (Continued) **1026490107**

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:	2020-08-14 15:10:36.0
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:	AKAWASAKI REDFIELD
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	10800 VALLEY VIEW ST.
Owner/Operator City,State,Zip:	CPRESS, CA 90630
Owner/Operator Telephone:	714-799-9910
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DOVER ANGELES VODKA LLC
Legal Status:	Other
Date Became Current:	Not reported

OK INTERNATIONAL (Continued) **1026490107**

Date Ended Current:	Not reported
Owner/Operator Address:	10800 VALLEY VIEW
Owner/Operator City,State,Zip:	CYPRESS, CA 90630-0000
Owner/Operator Telephone:	714-799-9910
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2016-08-11 00:00:00.0
Handler Name: OK INTERNATIONAL	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	Not reported
Recognized Trader Exporter:	Not reported
Spent Lead Acid Battery Importer:	Not reported
Spent Lead Acid Battery Exporter:	Not reported
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

D21 **COOK COMPRESSION A DOVER COMPANY** **RCRA NonGen / NLR** **1024856869**
East **10800 VALLEY VIEW ST** **CAL000421273**
< 1/8 **CYPRESS, CA 90630**
0.061 mi.
321 ft. **Site 4 of 5 in cluster D**

Relative: RCRA NonGen / NLR:
Higher

Actual: Date Form Received by Agency:	2016-10-18 00:00:00.0
38 ft. Handler Name:	COOK COMPRESSION A DOVER COMPANY
Handler Address:	10800 VALLEY VIEW ST
Handler City,State,Zip:	CYPRESS, CA 90630
EPA ID:	CAL000421273
Contact Name:	MICHAEL PEREZ
Contact Address:	10800 VALLEY VIEW ST
Contact City,State,Zip:	CYPRESS, CA 90630
Contact Telephone:	562-846-1638
Contact Fax:	562-944-0351
Contact Email:	MPEREZ@COOKCOMPRESSION.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported

COOK COMPRESSION A DOVER COMPANY (Continued) **1024856869**

Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	10800 VALLEY VIEW ST
Mailing City,State,Zip:	CYPRESS, CA 90630
Owner Name:	DOVER ENERGY INC
Owner Type:	Other
Operator Name:	MICHAEL PEREZ
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

COOK COMPRESSION A DOVER COMPANY (Continued) **1024856869**

Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-07 19:35:10.0
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:	DOVER ENERGY INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1585 SAWDUST RD
Owner/Operator City,State,Zip:	WOODLANDS, CA 90630
Owner/Operator Telephone:	562-846-1638
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MICHAEL PEREZ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	10800 VALLEY VIEW ST
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	562-846-1638
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2016-10-18 00:00:00.0
Handler Name:	COOK COMPRESSION A DOVER COMPANY
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:

COOK COMPRESSION A DOVER COMPANY (Continued) **1024856869**

Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

D22 **THE BOEING CO CYPRESS** **RCRA NonGen / NLR** **1000200553**
East **10800 VALLEY VIEW ST** **CAD018740241**
< 1/8 **CYPRESS, CA 90630**
0.061 mi.
321 ft. **Site 5 of 5 in cluster D**

Relative: **Higher**
Actual: **38 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2011-07-19 00:00:00.0
Handler Name:	THE BOEING CO CYPRESS	
Handler Address:		10800 VALLEY VIEW ST
Handler City,State,Zip:		CYPRESS, CA 90630
EPA ID:		CAD018740241
Contact Name:		RON FORNATOR
Contact Address:		2401 E WARDLOW RD
Contact City,State,Zip:		LONG BEACH, CA 90807-5309
Contact Telephone:		562-593-3836
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		ENV SPEC
EPA Region:		09
Land Type:		Private
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:		2401 E WARDLOW RD
Mailing City,State,Zip:		LONG BEACH, CA 90807
Owner Name:		WARLAND INVESTMENTS CO
Owner Type:		Private
Operator Name:		THE BOEING CO
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:		---

THE BOEING CO CYPRESS (Continued) **1000200553**

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:	2011-08-08 15:10:06.0
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:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D007
Waste Description:	CHROMIUM

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

THE BOEING CO CYPRESS (Continued) **1000200553**

Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	WARLAND INVESTMENTS CO
Legal Status:	Private
Date Became Current:	2001-08-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	1299 OCEAN AVE
Owner/Operator City,State,Zip:	SANTA MONICA, CA 90630
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	THE BOEING CO
Legal Status:	Private
Date Became Current:	1997-10-01 00:00:00.
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:	WARLAND INVESTMENTS CO
Legal Status:	Private
Date Became Current:	2001-08-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	1299 OCEAN AVE
Owner/Operator City,State,Zip:	SANTA MONICA, CA 90630
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:	WHESSOE PLC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	BRINKBURN RD
Owner/Operator City,State,Zip:	DARLINGTON DURHAM DL36DS
Owner/Operator Telephone:	0325381818
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	THE BOEING CO
Legal Status:	Private
Date Became Current:	1997-10-01 00:00:00.
Date Ended Current:	Not reported

THE BOEING CO CYPRESS (Continued) **1000200553**

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

Historic Generators:
Receive Date: 1996-09-01 00:00:00.0
Handler Name: WHESSOE VAREC INC
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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 1992-02-19 00:00:00.0
Handler Name: WHESSOE VAREC INC
Federal Waste Generator Description: Large 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2008-07-30 00:00:00.0
Handler Name: THE BOEING CO CYPRESS
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: 2011-07-19 00:00:00.0
Handler Name: THE BOEING CO CYPRESS
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

THE BOEING CO CYPRESS (Continued) **1000200553**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 334514
NAICS Description: TOTALIZING FLUID METER AND COUNTING DEVICE MANUFACTURING

NAICS Code: 561439
NAICS Description: OTHER BUSINESS SERVICE CENTERS (INCLUDING COPY SHOPS)

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-09-18 00:00:00.0
Actual Return to Compliance Date: 1994-09-19 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported

THE BOEING CO CYPRESS (Continued) **1000200553**

Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 1992-09-18 00:00:00.0
Evaluation Responsible Agency: State Contractor/Grantee
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9STA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 1994-09-19 00:00:00.0
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: 1994-09-19 00:00:00.0
Evaluation Responsible Agency: State Contractor/Grantee
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9STA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

C23 **CAVOTEC USA, INC.** **CERS HAZ WASTE** **S126106008**
North **5665 CORPORATE AVE** **HWTS** **N/A**
< 1/8 **CYPRESS, CA 90630**
0.065 mi.
344 ft. **Site 4 of 6 in cluster C**

Relative:
Higher

Actual:
39 ft.

CERS HAZ WASTE:
Name: CAVOTEC USA, INC.
Address: 5665 CORPORATE AVE
City,State,Zip: CYPRESS, CA 90630
Site ID: 359247
CERS ID: 10645759
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 359247
Site Name: Cavotec USA, Inc.
Violation Date: 11-07-2019
Citation: 22 CCR 12 66262.11 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.11
Violation Description: Failure to determine if wastes generated are hazardous waste by using generator knowledge or applying testing method.
Violation Notes: Returned to compliance on 12/03/2019. OBSERVATION: Observed the following drums in the outside yard area - 55-gal drum labeled 'propylene glycol' and 55-gal drum of polyester resin. Both containers contain material and stored open. CORRECTIVE ACTION: Have these drums hauled off under manifest within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 359247
Site Name: Cavotec USA, Inc.
Violation Date: 01-30-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to 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 03/04/2020. This violation is being elevated to a Class II Violation which is a more serious violation. The violation was originally cited on 11/6/2019. Review regulator comments in CERS and make corrections immediately.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 359247
Site Name: Cavotec USA, Inc.
Violation Date: 11-07-2019
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 01/30/2020. OBSERVATION: HMBP last submitted on Sept 2018. HMBP must be recertified and resubmitted to CERS annually by March 1st. CORRECTIVE ACTION: Resubmit HMBP to CERS within 30 days.
Violation Division: Orange County Environmental Health

CAVOTEC USA, INC. (Continued) **S126106008**

Violation Program: HMRRP
Violation Source: CERS

Site ID: 359247
Site Name: Cavotec USA, Inc.
Violation Date: 11-07-2019
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 12/03/2019. OBSERVATION: Observed one 55-gal drum of waste oil dated 8/25/16 and one 55-gal drum of waste acetone dated 8/16/16 in fire cabinet. CORRECTIVE ACTION: Have these hazardous wastes hauled by a registered hazardous waste hauler and submit a copy of the manifest to this Agency within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 359247
Site Name: Cavotec USA, Inc.
Violation Date: 11-07-2019
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 12/03/2019. OBSERVATION: Observed the following hazardous waste containers with no hazardous waste label: - one cubic yard box of 'used rags' - one cubic yard box of waste aerosols CORRECTIVE ACTION: Label all containers of hazardous waste with required information and submit documentation to this Agency demonstrating compliance with labeling regulations within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-30-2020
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: This is a follow up inspection to the on site Hazardous Materials inspection conducted on 11/6/2019. The Hazardous Materials Business Plan (HMBP) submittal received on 12/2/2019 to the California Environmental Reporting System (CERS) has been reviewed and declined. Please see regulator comments in CERS and re-submit all corrections to this Agency immediately at http://cers.calepa.ca.gov/.

CAVOTEC USA, INC. (Continued) **S126106008**

Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-02-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed HMBEP submittal. Package was declined and an email sent to the facility contact. The following corrections are still needed: CHEMICAL INVENTORY All Materials = only gases under pressure have Above Ambient Storage Pressure G all others change to Ambient All Wastes = complete Annual Waste Amount field Also: Argon gas G remove CAS# from Chemical Identification section and only report it on the Mixture Chart//Common Name = Argon C02//Fire Code = Flammable Gas Freon G complete Fire Code Hazard Class field//physical state and units must match G if stored as a gas, convert all amounts to cubic feet Waste Aerosols G physical state = liquid//complete State Waste Code and Annual Waste Amount fields (if not a waste then Haz Material Type = Mixture) Waste Oil G remove CAS# from Chem ID section//Fire Code = combustible 3B//Storage Pressure = Ambient//Mixture Chart = %WT = 95 Glycol with Water G complete Fire Code Hazard Class Waste Coolant G complete Mixture Chart [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-04-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site for a follow up inspection to assist business with CERS and correct an outstanding violation. The following documentation submitted to CERS on 3/4/2020 has been reviewed and ACCEPTED: - Business Activities - Business Owner/Operator Identification - Hazardous Materials Inventory - Site Map - Emergency Contingency Plan/Training Records The following violation has been corrected: - I463: Business plan reviewed and electronically certified as complete/accurate on or before the due date. REMINDER: Please re-certify your HMBEP annually in the California Environmental Reporting System (CERS) between January 1st G March 1st at http://cers.calepa.ca.gov/.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-14-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Hazardous Materials Disclosure Business Emergency Plan (HMBEP) inspection. Met with Facilities Manager Cael Hill of Cavotec Dabio. Consent was provided to enter and conduct inspection activities. Cavotec has submitted the HMBEP into the California Environmental Reporting System (CERS) database and was accepted. The following were verified: - Chemical Disclosure - Contingency plan/BEP, and; - Training program. Please note that if the

CAVOTEC USA, INC. (Continued) **S126106008**

facility decides to discontinue any of the above chemicals, proper disposal or removal of chemicals is required and maintenance of disposal records will be verified. Within 30 days of removal, contact this agency to verify that the hazardous material is no longer stored on site and remove it from the facility's listed disclosable chemicals.

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-14-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. Met with Facilities Manager Cael Hill from Cavotec Dabio. Consent to enter and inspect the facility was granted. Hazardous waste observed on site included: - waste/spent acetone; - rags containing acetone/oil - waste cooling oil; and, - spent aerosols and E-Waste. All waste containers were properly labeled and stored closed. Hazardous waste manifests for all hazardous waste streams were available for review. Perimeter of the facility was inspected. Did not observe any indication of a hazardous waste release or illegal dumping along the perimeter of the facility. The Hazardous Waste Emergency Response information was available in the emergency response plan.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-06-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for routine Hazardous Materials Business Plan (HMBP) inspection. Observed the following hazardous materials on site in reportable quantities (all sizes are approximate): - 18 x 336 cubic ft cylinders of argon - 14 x 110 lb cylinders of R-407C - 55 gal drum of used oil - 2 x 55 gal drum of polyester resin - 55 gal drum of acetone waste - 55 gal drum of acetone -2 x 376 cubic ft + 4 x 350 cf cylinders of argon/CO2 mix - 450 gal of glycol with water - 9,120 cubic ft of nitrogen (5 carts with a total of 1,824 cubic ft per cart) - 500 gal of diesel fuel - 11 x 74 cubic ft cylinders of acetylene - 9 x 8 gal cylinders of propane - 15 x 251 cubic ft cylinders of oxygen - 6 x 55 gal of propylene glycol Per California Health & Safety Code Ch. 6.95, businesses that store and handle hazardous materials at or over reportable quantities (55 gal of a liquid, 500 lbs of a solid, 200 cubic ft of a compressed gas) must prepare and implement an HMBP. The HMBP [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-06-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct hazardous waste inspection. Walked the interior and

CAVOTEC USA, INC. (Continued) **S126106008**

exterior areas of the facility. Observed hazardous waste storage areas and containers. Contingency Plan and hazardous waste manifests were available for review. Checked trash bin; observed no illegal disposal of hazardous waste. Please note that a re-inspection will occur in approximately 30 days.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-14-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed HMBEP submission package on CERS, DENIED. Request for resubmittal within 30 days.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-24-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received and ACCEPTED the HMBEP on CERS.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-03-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On site to conduct follow-up inspection. Walked the interior and exterior areas of the facility with Mr. Nguyen. Observed one cubic yard box of waste rags with proper labeling. No other waste streams currently on site. All waste containers observed during the previous inspection have been hauled off under manifest which was provided by Mr. Nguyen. The following violations have been closed: - I053: Ensure hazardous wastes are not stored on site for greater than 6 months. - I325: Waste determination made for previously observed drums of resin and propolyne glycol. - I400: All hazardous waste containers are properly labeled. No other outstanding violations observed.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-03-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBEP not approved. CERS comments were too long to be submitted in CERS. Had to email business and provide contact info to send comments. Please correct the following: Argon gas G Indicate the hazardous material type as a mixture. Under fire code hazard, indicate pressure release/asphyxiation or other. Under mixture components, add the Argon and Carbon Dioxide with CAS#s 7440-37-1 and 124-38-9, and their %s. Freon-407c G Under fire code hazard, indicate pressure

CAVOTEC USA, INC. (Continued) **S126106008**

release/asphyxiation or other. Waste aerosols G Add waste under hazardous material type. Under fire code hazard write flammable. If these are cans please check Yes G Can under inventory storage information. Add the mixture components and their CAS#s. Used oils G Please move the CAS# next to common name to the bottom under mixture components. Under fire code hazard add combustible liquid. Add the state waste code 221. Change the storage pressure from above ambient to ambient. Waste rags with - You [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-04-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: submission under review -Call Cael back
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 359247
Site Name: Cavotec USA, Inc.
Site Address: 5665 CORPORATE AVE
Site City: CYPRESS
Site Zip: 90630
Enf Action Date: 07-01-2020
Enf Action Type: AEO - Unified Program
Enf Action Description: Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes: Fines/Penalties Assessed: $9,000.00.
Enf Action Division: Orange County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 359247
Facility Name: Cavotec USA, Inc.
Env Int Type Code: HWG
Program ID: 10645759
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.808190
Longitude: -118.033630

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 5665 Corporate Avenue
Affiliation City: Cypress
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90630
Affiliation Phone: Not reported

CAVOTEC USA, INC. (Continued) **S126106008**

Affiliation Type Desc:	Identification Signer
Entity Name:	Tin Nguyen
Entity Title:	E.H.S. Coordinator
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Mo Jadbabaei
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 947-0005

Affiliation Type Desc:	Environmental Contact
Entity Name:	Tin Nguyen
Entity Title:	Not reported
Affiliation Address:	5665 Corporate Ave
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Cavotec USA, Inc.
Entity Title:	Not reported
Affiliation Address:	5665 Corporate Avenue
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(714) 947-0005

Affiliation Type Desc:	Property Owner
Entity Name:	BIXBY LAND
Entity Title:	Not reported
Affiliation Address:	1501 Quail St #230
Affiliation City:	Newport Beach
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92660
Affiliation Phone:	(949) 336-7000

Affiliation Type Desc:	Document Preparer
Entity Name:	Tin Nguyen
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

CAVOTEC USA, INC. (Continued) **S126106008**

Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: Cavotec
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6406

HWTS:
Name: CAVOTEC USA INC
Address: 5665 CORPORATE AVE
Address 2: Not reported
City,State,Zip: CYPRESS, CA 90630
EPA ID: CAL000451245
Inactive Date: Not reported
Create Date: 12/11/2019
Last Act Date: 07/27/2020
Mailing Name: Not reported
Mailing Address: 5665 CORPORATE AVE
Mailing Address 2: Not reported
Mailing City,State,Zip: CYPRESS, CA 90630
Owner Name: CAVOTEC USA INC
Owner Address: 5665 CORPORATE AVE
Owner Address 2: Not reported
Owner City,State,Zip: CYPRESS, CA 90630
Contact Name: TIN NGUYEN
Contact Address: 5665 CORPORATE AVE
Contact Address 2: Not reported
City,State,Zip: CYPRESS, CA 90630

NAICS:
EPA ID: CAL000451245
Create Date: 2019-12-11 16:07:51.083
NAICS Code: 541713
NAICS Description: Research & Development in Nanotechnology
Issued EPA ID Date: 2019-12-11 16:07:51.08300
Inactive Date: Not reported
Facility Name: CAVOTEC USA INC
Facility Address: 5665 CORPORATE AVE
Facility Address 2: Not reported
Facility City: CYPRESS

CAVOTEC USA, INC. (Continued) **S126106008**

Facility County:	Not reported
Facility State:	CA
Facility Zip:	90630
EPA ID:	CAL000451245
Create Date:	2019-12-11 16:07:51.083
NAICS Code:	541713
NAICS Description:	Research and Development in Nanotechnology
Issued EPA ID Date:	2019-12-11 16:07:51.08300
Inactive Date:	Not reported
Facility Name:	CAVOTEC USA INC
Facility Address:	5665 CORPORATE AVE
Facility Address 2:	Not reported
Facility City:	CYPRESS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	90630

C24 **CAVOTEC USA INC** **RCRA NonGen / NLR** **1026055065**
North **5665 CORPORATE AVE** **CAL000451245**
< 1/8 **CYPRESS, CA 90630**
0.065 mi.
344 ft. **Site 5 of 6 in cluster C**

Relative: **Higher**

Actual: **39 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2019-12-11 00:00:00.0
Handler Name:	CAVOTEC USA INC	
Handler Address:		5665 CORPORATE AVE
Handler City,State,Zip:		CYPRESS, CA 90630
EPA ID:		CAL000451245
Contact Name:		TIN NGUYEN
Contact Address:		5665 CORPORATE AVE
Contact City,State,Zip:		CYPRESS, CA 90630
Contact Telephone:		714-947-0005
Contact Fax:		Not reported
Contact Email:		TIN.NGUYEN@CAVOTEC.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:		5665 CORPORATE AVE
Mailing City,State,Zip:		CYPRESS, CA 90630
Owner Name:		CAVOTEC USA INC
Owner Type:		Other
Operator Name:		TIN NGUYEN
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No

CAVOTEC USA INC (Continued) **1026055065**

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:	2020-02-10 17:53:58.0
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:	TIN NGUYEN
Legal Status:	Other
Date Became Current:	Not reported

CAVOTEC USA INC (Continued) **1026055065**

Date Ended Current:	Not reported
Owner/Operator Address:	5665 CORPORATE AVE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-947-0005
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	CAVOTEC USA INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5665 CORPORATE AVE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-947-0005
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2019-12-11 00:00:00.0
Handler Name: CAVOTEC USA 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:	541713
NAICS Description:	RESEARCH AND DEVELOPMENT IN NANOTECHNOLOGY

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

C25 **CAVOTEC DABICO** **RCRA-SQG** **1016452947**
North **5665 CORPORATE AVE** **FINDS** **CAR000243113**
< 1/8 **CYPRESS, CA 90630**
0.065 mi.
344 ft. **Site 6 of 6 in cluster C**

Relative: RCRA-SQG:
Higher

Actual: Date Form Received by Agency:		2013-12-05 00:00:00.0
39 ft. Handler Name:	CAVOTEC DABICO	
Handler Address:		5665 CORPORATE AVE
Handler City,State,Zip:		CYPRESS, CA 90630

CAVOTEC DABICO (Continued) **1016452947**

EPA ID:	CAR000243113
Contact Name:	EDWARD MCKNIGHT
Contact Address:	5665 CORPORATE AVE
Contact City,State,Zip:	CYPRESS, CA 90630
Contact Telephone:	714-947-0005 2669
Contact Fax:	310-320-4599
Contact Email:	ED.MCKNIGHT@CAVOTEC.COM
Contact Title:	HEALTH SAFETY AND ENV
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:	5665 CORPORATE AVE
Mailing City,State,Zip:	CYPRESS, CA 90630
Owner Name:	LBA REALTY
Owner Type:	Private
Operator Name:	CAVOTEC DABICO
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

CAVOTEC DABICO (Continued) **1016452947**

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:	2013-12-12 14:09:48.0
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:	D001
Waste Description:	IGNITABLE WASTE
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:	LBA REALTY
Legal Status:	Private
Date Became Current:	2010-12-30 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	333 MICHELSON DR
Owner/Operator City,State,Zip:	IRVINE, CA 96216
Owner/Operator Telephone:	949-833-0400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	CAVOTEC DABICO
Legal Status:	Private
Date Became Current:	2013-11-10 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported

CAVOTEC DABICO (Continued) **1016452947**

Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2013-12-05 00:00:00.0
Handler Name: CAVOTEC DABICO
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: 334419
NAICS Description: OTHER ELECTRONIC COMPONENT MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110056511136

Click Here:

Environmental Interest/Information System:
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
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.
Registry ID: 110070336788

Click Here:

Environmental Interest/Information System:
OSHA ESTABLISHMENT

CAVOTEC DABICO (Continued) **1016452947**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

E26 **CONSOLIDATED MEDICAL BIO ANALYSIS INC** **RCRA-SQG** **1014950482**
WNW **10700 WALKER ST** **CAR000224071**
< 1/8 **CYPRESS, CA 90630**
0.075 mi.
397 ft. **Site 1 of 4 in cluster E**

Relative: **Lower**
Actual: **37 ft.**

RCRA-SQG:

Date Form Received by Agency:	2012-03-19 00:00:00.0
Handler Name:	CONSOLIDATED MEDICAL BIO ANALYSIS INC
Handler Address:	10700 WALKER ST
Handler City,State,Zip:	CYPRESS, CA 90630
EPA ID:	CAR000224071
Contact Name:	ED B CRESPO
Contact Address:	10700 WALKER ST
Contact City,State,Zip:	CYPRESS, CA 90630
Contact Telephone:	714-657-7369 x330
Contact Fax:	714-816-1511
Contact Email:	ECRESPO@CMBLABS.COM
Contact Title:	SAFETY OFFICER AND ANATOMIC PATHOLOGY MGR
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:	10700 WALKER ST
Mailing City,State,Zip:	CYPRESS, CA 90630
Owner Name:	CHIN KUO FAN
Owner Type:	Private
Operator Name:	CHIN KUO FAN
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:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No

CONSOLIDATED MEDICAL BIO ANALYSIS INC (Continued) **1014950482**

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:	2012-03-27 11:52:05.0
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

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CHIN KUO FAN
Legal Status:	Private
Date Became Current:	1979-03-01 00:00:00.
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:	CHIN KUO FAN
Legal Status:	Private

CONSOLIDATED MEDICAL BIO ANALYSIS INC (Continued) **1014950482**

Date Became Current:	1979-03-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	10700 WALKER ST
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-657-7369
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2012-03-19 00:00:00.0
Handler Name:	CONSOLIDATED MEDICAL BIO ANALYSIS INC
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:	621511
NAICS Description:	MEDICAL LABORATORIES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

E27 **CONSOLIDATED MEDICAL BIO-ANALYSIS** **CERS HAZ WASTE** **S113159551**
WNW **10700 WALKER ST** **CERS** **N/A**
< 1/8 **CYPRESS, CA 90630**
0.075 mi.
397 ft. **Site 2 of 4 in cluster E**

Relative:
Lower

Actual:
37 ft.

CERS HAZ WASTE:

Name:	CONSOLIDATED MEDICAL BIO-ANALYSIS
Address:	10700 WALKER ST
City,State,Zip:	CYPRESS, CA 90630
Site ID:	412870
CERS ID:	10568521
CERS Description:	Hazardous Waste Generator

CERS:

Name:	CONSOLIDATED MEDICAL BIO-ANALYSIS
Address:	10700 WALKER ST
City,State,Zip:	CYPRESS, CA 90630
Site ID:	412870
CERS ID:	10568521
CERS Description:	Chemical Storage Facilities

CONSOLIDATED MEDICAL BIO-ANALYSIS (Continued) **S113159551**

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-18-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Hazardous Materials Disclosure Business Emergency Plan (HMBEP) inspection. Met with Manager Shelley Currier of Consolidated Medical Bio-Analysis. Consent was provided to enter and conduct inspection activities. Consolidated Medical Bioanalysis has submitted the HMBEP into the Esubmit database. The 2016 HMBEP has been accepted. Disclosable chemicals verified include: - diesel - Waste Alcohol - Waste Formalin The contingency plan and training program was verified during this inspection. Please note that if the facility decides to discontinue any of the above chemicals, proper disposal or removal of chemicals is required and maintenance of disposal records will be verified. Within 30 days of removal, contact this agency to verify that the hazardous material is no longer stored on site and remove it from the facility's listed disclosable chemicals.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	11-22-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Submission in review
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	11-26-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Submission Under Review
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	12-04-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Submission in Review. Emailed environmental contact in regards to the chemical disclosure and facility map. Reviewed HMBEP submission package on eSubmit Portal, DENIED. Request for re-submittal.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-12-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health

CONSOLIDATED MEDICAL BIO-ANALYSIS (Continued) **S113159551**

Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-12-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	The following Hazardous Substances were observed being stored at above the reporting threshold: HM -Diesel HW -Waste Formalin -Waste Alcohol The information and inventory was verified in CERS 10568521.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-12-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Facility has complied with the 2018 reporting requirement. Reviewed and declined HMBEP. The following corrections are needed: CHEMICAL INVENTORY Alcohol Waste G add the %WT for ethanol on the mixture chart to the best of your knowledge EMERGENCY/EMPLOYEE TRAINING Please change your response to G Provided elsewhere in CERSG . This facility does not meet the exemption which allows the training plan to be provided to the regulator.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-23-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed and accepted HMBEP. All corrections have been made. Facility has disclosed 3 chemicals (2 waste).
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-10-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. Met with Safety Officer Ed Crespo, who gave consent to enter and inspect the facility. Hazardous waste observed on site include: - (1) 55-gallon drum containing waste alcohols, (1) 55-gallon drum containing waste formaldehyde, and (1) 30 gallon drum containing waste solids with formalin. All containers were labeled and properly closed. Hazardous waste manifests for all hazardous waste streams were available for review. Perimeter of the facility and the municipal dumpster was inspected. Did not observe any indication of a hazardous waste release or illegal dumping along the perimeter of the facility. The Hazardous Waste Emergency Response information was posted in the facility.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

CONSOLIDATED MEDICAL BIO-ANALYSIS (Continued) **S113159551**

Eval General Type:	Other/Unknown
Eval Date:	03-30-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The HMBEP has been approved.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Coordinates:

Site ID:	412870
Facility Name:	CONSOLIDATED MEDICAL BIO-ANALYSIS
Env Int Type Code:	HMBP
Program ID:	10568521
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.807350
Longitude:	-118.036480

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Ed Crespo
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	CONSOLIDATED MEDICAL BIO-ANALYSIS INC
Entity Title:	Not reported
Affiliation Address:	10700 WALKER ST
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(714) 657-7369

Affiliation Type Desc:	Parent Corporation
Entity Name:	CONSOLIDATED MEDICAL BIO-ANALYSIS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA

CONSOLIDATED MEDICAL BIO-ANALYSIS (Continued) **S113159551**

Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406
Affiliation Type Desc:	Environmental Contact
Entity Name:	Ed Crespo
Entity Title:	Not reported
Affiliation Address:	10700 WALKER ST
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Ed Crespo
Entity Title:	Safety Officer
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Chin Kuo Fan
Entity Title:	Not reported
Affiliation Address:	10700 WALKER ST
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(714) 657-7369
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO BOX 2369
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Chin Kuo Fan
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 657-7369

F28 **STATE OF CALIFORNIA** **RCRA NonGen / NLR** **1025843409**
NNE **5796 CORPORATE AVENUE** **CAC003023023**
< 1/8 **CYPRESS, CA 90630**
0.077 mi.
408 ft. **Site 1 of 3 in cluster F**

Relative: **Higher**

Actual: **39 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2019-07-08 00:00:00.0
Handler Name:	STATE OF CALIFORNIA	
Handler Address:		5796 CORPORATE AVENUE
Handler City,State,Zip:		CYPRESS, CA 90630
EPA ID:		CAC003023023
Contact Name:		TONY HASHEMIAN
Contact Address:		5796 CORPORATE AVENUE
Contact City,State,Zip:		CYPRESS, CA 90630
Contact Telephone:		714-484-5466
Contact Fax:		Not reported
Contact Email:		HAMID.HASHEMIAN@DTSC.CA.GOV
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:		5796 CORPORATE AVENUE
Mailing City,State,Zip:		CYPRESS, CA 90630
Owner Name:		DR. HASAN DU-DIN HASHMI
Owner Type:		Other
Operator Name:		TONY HASHEMIAN
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

STATE OF CALIFORNIA (Continued) **1025843409**

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:	2019-07-29 17:12:30.0
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:	TONY HASHEMIAN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5796 CORPORATE AVENUE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-484-5466
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DR. HASAN DU-DIN HASHMI
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1918 ARTESIA BOULEVARD
Owner/Operator City,State,Zip:	TORRANCE, CA 90504
Owner/Operator Telephone:	310-532-7755
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

STATE OF CALIFORNIA (Continued) **1025843409**

Historic Generators:
Receive Date: 2019-07-08 00:00:00.0
Handler Name: STATE OF CALIFORNIA
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

G29 **LTP MODERN MACHINE INC** **RCRA NonGen / NLR** **1024856727**
West **10900 WALKER ST** **CAL000420984**
< 1/8 **CYPRESS, CA 90630**
0.080 mi.
420 ft. **Site 1 of 2 in cluster G**

Relative: **Lower**
Actual: **36 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 2016-10-11 00:00:00.0
Handler Name: LTP MODERN MACHINE INC
Handler Address: 10900 WALKER ST
Handler City,State,Zip: CYPRESS, CA 90630
EPA ID: CAL000420984
Contact Name: THANH PHAN
Contact Address: 10900 WALKER ST
Contact City,State,Zip: CYPRESS, CA 90630
Contact Telephone: 562-795-1701
Contact Fax: 562-795-1703
Contact Email: ALEX.GOMEZ@LTPMODERNMACHINE.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: 10900 WALKER ST
Mailing City,State,Zip: CYPRESS, CA 90630
Owner Name: LTP MODERN MACHINE INC

LTP MODERN MACHINE INC (Continued) **1024856727**

Owner Type:	Other
Operator Name:	THANH PHAN
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:	2018-09-07 19:35:08.0
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

LTP MODERN MACHINE INC (Continued) **1024856727**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: THANH PHAN
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 10900 WALKER ST
Owner/Operator City,State,Zip: CYPRESS, CA 90630
Owner/Operator Telephone: 562-795-1701
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: LTP MODERN MACHINE INC
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 10900 WALKER ST
Owner/Operator City,State,Zip: CYPRESS, CA 90630
Owner/Operator Telephone: 562-795-1701
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2016-10-11 00:00:00.0
Handler Name: LTP MODERN MACHINE 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

G30
West
< 1/8
0.080 mi.
420 ft.

Relative: Lower

Actual: 36 ft.

LTP MODERN MACHINE INC
10900 WALKER ST
CYPRESS, CA 90630

Site 2 of 2 in cluster G

CERS HAZ WASTE
HAZNET
NPDES
CIWQS
CERS
HWTS

S121688582
N/A

CERS HAZ WASTE:
Name: LTP MODERN MACHINE INC
Address: 10900 WALKER ST
City,State,Zip: CYPRESS, CA 90630
Site ID: 360718
CERS ID: 10582219
CERS Description: Hazardous Waste Generator

HAZNET:
Name: LTP MODERN MACHINE INC
Address: 10900 WALKER ST
Address 2: Not reported
City,State,Zip: CYPRESS, CA 90630
Contact: THANH PHAN
Telephone: 5627951701
Mailing Name: Not reported
Mailing Address: 10900 WALKER ST

Year: 2019
Gepaid: CAL000420984
TSD EPA ID: AZR000515924
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 4.58700

Year: 2019
Gepaid: CAL000420984
TSD EPA ID: AZR000520304
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 15.84600

Year: 2018
Gepaid: CAL000420984
TSD EPA ID: CAD097030993
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 3.44025

Year: 2018
Gepaid: CAL000420984
TSD EPA ID: AZR000520304
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 28.46025

Year: 2018
Gepaid: CAL000420984

LTP MODERN MACHINE INC (Continued) **S121688582**

TSD EPA ID: AZR000501510
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.45950

Year: 2018
Gepaid: CAL000420984
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: 1.66800

Year: 2017
Gepaid: CAL000420984
TSD EPA ID: CAT080013352
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: 6.46

Year: 2017
Gepaid: CAL000420984
TSD EPA ID: CAD097030993
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 13.99035

Year: 2017
Gepaid: CAL000420984
TSD EPA ID: AZR000515924
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 11.02965

Additional Info:
Year: 2017
Gen EPA ID: CAL000420984

Shipment Date: 20171216
Creation Date: 8/10/2018 18:30:24
Receipt Date: 20171228
Manifest ID: 010388085FLE
Trans EPA ID: CAR000176826
Trans Name: HCI ENVIRONMENTAL & ENGINEERING SERVICE
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD097030993
Trans Name: US ECOLOGY VERNON INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported

LTP MODERN MACHINE INC (Continued) **S121688582**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	4.587
Waste Quantity:	1100
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:	20171121
Creation Date:	6/13/2018 18:30:46
Receipt Date:	20171121
Manifest ID:	009712759FLE
Trans EPA ID:	CAT080016116
Trans Name:	NIETO AND SONS TRUCKING INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	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:	6.46
Waste Quantity:	1700
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:	20171102
Creation Date:	6/13/2018 18:31:07
Receipt Date:	20171110
Manifest ID:	010966903FLE
Trans EPA ID:	CAR000176826
Trans Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.14675
Waste Quantity:	275
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

LTP MODERN MACHINE INC (Continued) **S121688582**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171019
Creation Date:	5/30/2018 18:30:45
Receipt Date:	20171027
Manifest ID:	010967004FLE
Trans EPA ID:	CAR000176826
Trans Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.0425
Waste Quantity:	250
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:	20171010
Creation Date:	5/30/2018 18:33:51
Receipt Date:	20171012
Manifest ID:	010967100FLE
Trans EPA ID:	CAR000176826
Trans Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.14675
Waste Quantity:	275
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:	20171005
Creation Date:	5/30/2018 18:33:51
Receipt Date:	20171012

LTP MODERN MACHINE INC (Continued) **S121688582**

Manifest ID:	010967077FLE
Trans EPA ID:	CAR000176826
Trans Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.14675
Waste Quantity:	275
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:	20170922
Creation Date:	5/30/2018 18:34:06
Receipt Date:	20170929
Manifest ID:	010967110FLE
Trans EPA ID:	CAR000176826
Trans Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	2.6271
Waste Quantity:	630
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:	20170921
Creation Date:	5/30/2018 18:34:06
Receipt Date:	20170929
Manifest ID:	010967214FLE
Trans EPA ID:	CAR000176826
Trans Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC

LTP MODERN MACHINE INC (Continued) **S121688582**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	2.2935
Waste Quantity:	550
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:	20170913
Creation Date:	7/6/2018 18:30:51
Receipt Date:	20170919
Manifest ID:	016548210JJK
Trans EPA ID:	CAR000175422
Trans Name:	WORLDWIDE RECOVERY SYSTEMS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA YES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.14675
Waste Quantity:	275
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:	20170828
Creation Date:	7/6/2018 18:30:59
Receipt Date:	20170908
Manifest ID:	017583276JJK
Trans EPA ID:	CAR000175422
Trans Name:	WORLDWIDE RECOVERY SYSTEMS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA YES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.0425

LTP MODERN MACHINE INC (Continued) **S121688582**

Waste Quantity:	250
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

NPDES:

Name:	LTP MODERN MACHINE
Address:	10900 WALKER STREET
City,State,Zip:	CYPRESS, CA 90630
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:	8 30NEC006508
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:	Active
Status Date:	04/13/2020
Operator Name:	LTP Modern Machine
Operator Address:	10900 Walker Street
Operator City:	Cypress
Operator State:	California
Operator Zip:	90630

Name:	LTP MODERN MACHINE
Address:	10900 WALKER STREET
City,State,Zip:	CYPRESS, CA 90630
Facility Status:	Active
NPDES Number:	CAS000001
Region:	8
Agency Number:	0
Regulatory Measure ID:	499240
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	8 30NEC006508
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/13/2020
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	10900 Walker Street

LTP MODERN MACHINE INC (Continued) **S121688582**

Discharge Name:	LTP Modern Machine
Discharge City:	Cypress
Discharge State:	California
Discharge Zip:	90630
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

CIWQS:

Name:	VERTEX STANDARD
Address:	10900 WALKER ST
City,State,Zip:	CYPRESS, CA 90630
Agency:	Yaesu USA
Agency Address:	17210 Edwards Rd, Cerritos, CA 90703
Place/Project Type:	Construction - Industrial
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	8 30C315794
NPDES Number:	CAS000002
Adoption Date:	01/01/1900
Effective Date:	05/30/2001
Termination Date:	11/04/2010
Expiration/Review Date:	01/01/1900
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:	33.804808
Longitude:	-118.037074

Name:	LTP MODERN MACHINE
Address:	10900 WALKER STREET
City,State,Zip:	CYPRESS, CA 90630
Agency:	LTP Modern Machine
Agency Address:	10900 Walker Street, Cypress, CA 90630
Place/Project Type:	Industrial - Industrial and Commercial Machinery and Equipment, NEC
SIC/NAICS:	3599
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 30NEC006508
NPDES Number:	CAS000001
Adoption Date:	01/01/1900
Effective Date:	04/13/2020
Termination Date:	01/01/1900

LTP MODERN MACHINE INC (Continued) **S121688582**

Expiration/Review Date:	01/01/1900
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	1
Violations within 5 years:	1
Latitude:	33.8053
Longitude:	-118.03616

CERS:

Name:	LTP MODERN MACHINE INC
Address:	10900 WALKER ST
City,State,Zip:	CYPRESS, CA 90630
Site ID:	360718
CERS ID:	10582219
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	360718
Site Name:	LTP MODERN MACHINE INC
Violation Date:	10-23-2020
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	OBSERVATION: Training documentation for all applicable employees was not available for review. Facility must conduct and document annual training for employees as specified in the employee training plan. CORRECTIVE ACTION: Please provide training records for the Hazardous Materials Business Plan with the following information documented: topic of training, date, employee name, employee signature. Submit documentation to this Agency within 30 days
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	360718
Site Name:	LTP MODERN MACHINE INC
Violation Date:	04-09-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to 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 05/08/2020. The facility failed to submit the Hazardous Materials Business Emergency plan before the deadline of March 1, 2020. Corrective action: Within 30 days, notify this Agency that the plan has been submitted on CERS.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	360718
Site Name:	LTP MODERN MACHINE INC

LTP MODERN MACHINE INC (Continued) **S121688582**

Violation Date:	10-21-2020
Citation:	40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description:	Failure to ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies.
Violation Notes:	OBSERVATION: Training documentation was not available for review. CORRECTIVE ACTION: Submit documentation to this Agency demonstrating that employees have been properly trained. Additionally, The records shall include the following: the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned to each position, and a written description for the type and amount of both introductory and continuing training that will be given to each person filling a position. Submit training record documents to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	360718
Site Name:	LTP MODERN MACHINE INC
Violation Date:	08-29-2017
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 04/26/2019. The facility has not submitted the Hazardous Materials Business Emergency Plan in CERS for this location. The HMBEP documents can be electronically submitted by going to the CERS website at http://cers.calepa.ca.gov/ and create and account. User guides and tutorials are located on the home page to help you get started. The following HMBEP documents that must be electronically submitted: - Business Activities form - Owner/Operator Identification form - Hazardous Material Chemical Inventory forms - Facility Site Map - Business Emergency Plan Ensure the HMBEP is completed and submitted within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	360718
Site Name:	LTP MODERN MACHINE INC
Violation Date:	10-21-2020
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	OBSERVATION: The labels on two of the 275 gal totes of oily water were missing the physical state and hazardous properties. Labels on two additional 275 gal totes of hazardous waste were unable to be viewed. CORRECTIVE ACTION: Label all containers of hazardous waste and submit

LTP MODERN MACHINE INC (Continued) **S121688582**

documentation demonstrating that the containers have been properly labeled, within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 360718
Site Name: LTP MODERN MACHINE INC
Violation Date: 08-29-2017
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 business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 04/26/2019. The following Hazardous Substances were observed being stored at above the reporting threshold and must be added to the Hazardous Materials Inventory: HM - Lube Oil - Cutting Coolant concentrate (Hocut) - Degreaser 2085 - Propane HW -Waste Oil Please add the above list hazardous Substances to the HMBEP in CERS within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 360718
Site Name: LTP MODERN MACHINE INC
Violation Date: 08-29-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 08/29/2017. The hazardous waste labels on the the waste Machine coolant tote was missing the Accumulation start date and the Hazardous Property. The tote label was updated during this inspection and violation I400 was corrected.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 360718
Site Name: LTP MODERN MACHINE INC
Violation Date: 10-21-2020
Citation: 22 CCR 12 66262.11 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.11
Violation Description: Failure to determine if wastes generated are hazardous waste by using generator knowledge or applying testing method.
Violation Notes: OBSERVATION: The solution in the etching tank (tank #6) is periodically treated with soda ash prior to being disposed of. The pH of the solution in the tank ranges between 1-2. CORRECTIVE ACTION: Have a representative sample of the etching tank solution tested by a state-certified laboratory for pH and Title 22 CCR heavy metals and toxicity within 60 days. Having the following analysis performed on the waste: a total threshold limit concentration (TTLC) analysis. If the solution is not deemed to be a waste within 60 days notify this

LTP MODERN MACHINE INC (Continued) **S121688582**

Agency for further evaluation. NOTE: Please be aware that facilities treating hazardous waste under PBR, CA or CE tiers must notify the local agency at least 60 days prior to beginning treatment. The notification is required to be done via the California Environmental Reporting System (CERS) located at https://cers.calepa.ca.gov/.

Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 360718
Site Name: LTP MODERN MACHINE INC
Violation Date: 04-22-2019
Citation: 22 CCR 12 66262.11 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.11
Violation Description: Failure to determine if wastes generated are hazardous waste by using generator knowledge or applying testing method.
Violation Notes: Returned to compliance on 10/21/2020. OBSERVATION: The solution in the etching tank (tank #6) is periodically treated with soda ash prior to being disposed of as hazardous waste. The pH of the solution in the tank prior to treatment is reported to be between 1-2. CORRECTIVE ACTION: Have the etching tank solution tested by a state-certified laboratory for pH and any CA-regulated (23CCR) heavy metals that might be present in the solution. Submit a copy of the test report to this Agency within 30 days. Note: Any facility treating hazardous waste under PBR, CA or CE tiers must notify the local agency at least 60 days prior to beginning treatment.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-29-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: LTP Modern Machine Inc. 10900 Walker St. Cypress, CA 90630 Contact is Gabriel Quintero the General Manager (gabriel.quintero@ltpmodermachine.com). On site to conduct a new Hazardous waste generator inspection. Consent to inspect and take photos at the facility was provided by Gabriel Quintero. The facility EPA ID # CAL000420984 is active and currently being used. The facility generates waste oil and CNC Coolant waste liquids. The hazardous waste labels on the the waste Maching coolant were missing the Accumulation start date and the Hazardous Property (see violation). A new hazardous waste label was provided and complete during this inspection, violation I400 is corrected. We discussed the labeling information required on all hazardous waste containers and tanks. Municipal dumpster area does not contain any hazardous waste. The perimeter of the facility was also inspected; no signs of releases were noted. Emergency Response Information was [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-05-2017
Violations Found: No

LTP MODERN MACHINE INC (Continued) **S121688582**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review for LTP Modern Machine. Spoke with Mike P. The new site has an CERS ID and is updating it correctly. 2 x SR Followup at 6122 Katella RUR with either A01 or F03. Remove the old owner or add new owner The old site on Winners Circle may be in soon
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-10-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	LTP Modern Machine Inc. 11082 Winners Circle Los Alamitos CA 90702 President : Thanh Phan (562) 795-1701 email : thanh.phan@itpmodernmachine.com LTP Modern Machine Inc. 11082 Winners Circle Los Alamitos CA 90702 President : Thanh Phan (562) 795-1701 email : thanh.phan@itpmodernmachine.com Onsite to conduct a new hazardous waste generator inspection. Facility is a Machine Shop. Consent to enter, inspect and take photographs was given by the President Thanh Phan. Hazardous wastes generated include: (6x 55 drums of waste coolant and oil). Facility will be routinely inspected for the following hazardous waste management practices: -All hazardous waste containers must be properly labeled with the words "hazardous waste", waste name, owner information, hazardous property, physical state and accumulation date. -All hazardous waste containers must be closed at all times. -All hazardous waste must be properly disposed using a State registered [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-22-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site to follow up on a violation that was noted on a previous inspection report. The following violation is outstanding and must be corrected immediately: - I325: Failure to determine if wastes generated are hazardous waste by using generator knowledge or applying testing method CORRECTIVE ACTION: Have the etching tank solution tested by a state-certified laboratory for pH and Title 22 CCR heavy metals and toxicity. A copy of the routine inspection report will be provided with this report.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-21-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - 5 x 55 gal new oil - 2 x 275 gal + 55 gal new coolant - 15 x 7 gal propane - 4 x 275 oily water waste

LTP MODERN MACHINE INC (Continued) **S121688582**

Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-21-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed. Manifests were available and reviewed. Emergency plan updated and posted outside of the office. No hazardous waste or universal waste observed in the dumpster/enclosure area.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-24-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Processed A21.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-18-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Hazardous Waste Inspection however the business was no longer operating at the facility. A new business that is a clothing distribution facility and does not generate Hazardous Waste was now operating at the facility. An RUR will be generated to remove LTP Modern Machine Iinc. from this program. .
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-09-2020
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The facility has failed to submit the Hazardous Materials Business Emergency Plan by the deadline March 1, 2020. To correct the violation log on to CERS and submit the business plan for the year 2020. A copy of this report was sent to gabriel.quintero@ltpmodernmachine.com.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-22-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine Hazardous Materials Business Plan (HMBP) inspection. Observed the following hazardous materials on site in reportable quantities (all sizes are approximate): - 5 x 55 gal of

LTP MODERN MACHINE INC (Continued) **S121688582**

lube oil (total of 275 gal) - 375 gal tote of Cutting Coolant concentrate - 16 x 8 gal of propane cylinders (total of 128 gal) - 275 gal tote of waste coolant/oily water Per California Health & Safety Code Ch. 6.95, businesses that store and handle hazardous materials at or over reportable quantities (55 gal of a liquid, 500 lbs of a solid, 200 cubic ft of a compressed gas) must prepare and implement an HMBP. The HMBP must include the following elements: - Business Activities - Owner/Operator Information - Chemical Inventory - Site Map - Emergency Response Plan/Training Plan The HMBP must be submitted online through the California Environmental Reporting System (CERS) by March 1st of every year. The facility is responsible for identifying all hazardous [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-22-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct hazardous waste inspection. Walked the interior and exterior areas of the facility. Observed hazardous waste containers. Hazardous waste manifests and contingency plan were available for review. Check trash bin and observed no illegal hazardous waste disposal.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-27-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following documentation submitted to CERS on 4/26/2019 has been reviewed and ACCEPTED: - Business Activities - Business Owner/Operator Identification - Hazardous Materials Inventory - Site Map - Emergency Contingency Plan/Training Records Violations I292 & I169 have been corrected. REMINDER: Please re-submit your HMBEP annually between January 1st G March 1st.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-08-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed the submittal dated 5/8/2020 for sections: Facility Information, Hazardous Materials Inventory, and Emergency Response and Training Plans. All sections were accepted. Violation I463 was observed to be corrected, no further corrective action required. A copy of this report was sent to gabriel.quintero@ltpmodernmachine.com.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown

LTP MODERN MACHINE INC (Continued) **S121688582**

Eval Date:	05-24-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The facility has still not resubmitted their HMBP with the required corrections. The most recent submittal was submitted 12/28/16 and reviewed 2/9/18. An email was sent to Gabriel Quintero with instructions to fix HMBP. Violations I169 and I292 remain outstanding.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-29-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	LTP Modern Machine Inc. 10900 Walker St. Cypress, CA 90630 Contact is Gabriel Quintero the General Manager (gabriel.quintero@ltpmodermachine.com). On site to conduct a new Hazardous Materials Business Emergency Plan inspection. Consent to inspect was provided by Gabriel Quintero. A walk through of the facility was conducted. The following Hazardous Substances were observed being stored at above the reporting threshold and has not submitted the inventory to CERS (see violation) : HM - Lube Oil - Cutting Coolant concentrate (Hocut) - Degreaser 2085 - Propane HW -Waste coolant / Oily water This facility is responsible for identifying all hazardous materials and hazardous wastes, which are above the following disclosure thresholds: Solids > 500 pounds. Liquids > or = 55 gallons Gas > or = 200 cubic feet The facility has not completed or submitted the Hazardous Materials Business Emergency Plan in CERS (see violation). The HMBEP documents be [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Coordinates:

Site ID:	360718
Facility Name:	LTP MODERN MACHINE INC
Env Int Type Code:	HWG
Program ID:	10582219
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	33.805298
Longitude:	-118.036163

Affiliation:

Affiliation Type Desc:	Operator
Entity Name:	Thanh Phan
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:	(562) 301-4442

Affiliation Type Desc:	Facility Mailing Address

LTP MODERN MACHINE INC (Continued) **S121688582**

Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	10900 Walker St.
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	LTP MODERN MACHINE INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Thanh Phan
Entity Title:	Not reported
Affiliation Address:	10900 Walker St.
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(562) 795-1701
Affiliation Type Desc:	Document Preparer
Entity Name:	Gabriel Quintero
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	LTP Modern Machine
Entity Title:	Not reported
Affiliation Address:	10900 Walker St.
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(562) 795-1701
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611

LTP MODERN MACHINE INC (Continued) **S121688582**

Affiliation Phone: (714) 433-6406

Affiliation Type Desc: Environmental Contact
Entity Name: Gabriel Quintero
Entity Title: Not reported
Affiliation Address: 10900 Walker St.
Affiliation City: Cypress
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90630
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Gabriel Quintero
Entity Title: General Manger
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

HWTS:
Name: VERTEX STANDARD
Address: 10900 WALKER ST
Address 2: Not reported
City,State,Zip: CYPRESS, CA 906305013
EPA ID: CAL000340268
Inactive Date: 06/30/2012
Create Date: 02/03/2009
Last Act Date: 11/01/2012
Mailing Name: Not reported
Mailing Address: 6125 PHYLLIS DR
Mailing Address 2: Not reported
Mailing City,State,Zip: CYPRESS, CA 906305242
Owner Name: VERTEX STANDARD
Owner Address: 10900 WALKER ST
Owner Address 2: Not reported
Owner City,State,Zip: CYPRESS, CA 906305013
Contact Name: RANDY HAWTHORNE
Contact Address: 10900 WALKER ST
Contact Address 2: Not reported
City,State,Zip: CYPRESS, CA 906305013

NAICS:
EPA ID: CAL000340268
Create Date: 2009-02-03 10:45:34.890
NAICS Code: 33422
NAICS Description: Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
Issued EPA ID Date: 2009-02-03 10:45:34.87300
Inactive Date: 2012-06-30 00:00:00
Facility Name: VERTEX STANDARD
Facility Address: 10900 WALKER ST
Facility Address 2: Not reported
Facility City: CYPRESS

LTP MODERN MACHINE INC (Continued) **S121688582**

Facility County:	Not reported
Facility State:	CA
Facility Zip:	906305013
EPA ID:	CAL000340268
Create Date:	2010-11-22 13:00:50.000
NAICS Code:	42169
NAICS Description:	Other Electronic Parts and Equipment Wholesalers
Issued EPA ID Date:	2009-02-03 10:45:34.87300
Inactive Date:	2012-06-30 00:00:00
Facility Name:	VERTEX STANDARD
Facility Address:	10900 WALKER ST
Facility Address 2:	Not reported
Facility City:	CYPRESS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	906305013

F31 **CLAYTON ENVIRON CONSULT** **RCRA-SQG** **1000442492**
NNE **5736 CORPORATE AVE** **FINDS** **CAD982317877**
< 1/8 **CYPRESS, CA 90630** **ECHO**
0.080 mi.
423 ft. **Site 2 of 3 in cluster F**

Relative: **Higher**
Actual: **39 ft.**

RCRA-SQG:

Date Form Received by Agency:	1988-02-26 00:00:00.0
Handler Name:	CLAYTON ENVIRON CONSULT
Handler Address:	5736 CORPORATE AVE
Handler City,State,Zip:	CYPRESS, CA 90630
EPA ID:	CAD982317877
Contact Name:	ENVIRONMENTAL MANAGER
Contact Address:	5736 CORPORATE AVE
Contact City,State,Zip:	CYPRESS, CA 90630
Contact Telephone:	714-229-4806
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Other
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	CA
State District:	4
Mailing Address:	PO BOX 788
Mailing City,State,Zip:	CYPRESS, CA 90630
Owner Name:	MARSH & MCLEANNAN
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

CLAYTON ENVIRON CONSULT (Continued) **1000442492**

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:	2002-06-27 03:33:01.0
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

CLAYTON ENVIRON CONSULT (Continued) **1000442492**

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:	MARSH & MCLEANNAN
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:	1988-02-26 00:00:00.0
Handler Name: CLAYTON ENVIRON CONSULT	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINDS:

Registry ID: 110002792372

Click Here:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

CLAYTON ENVIRON CONSULT (Continued) **1000442492**

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:	1000442492
Registry ID:	110002792372
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002792372
Name:	CLAYTON ENVIRON CONSULT
Address:	5736 CORPORATE AVE
City,State,Zip:	CYPRESS, CA 90630

H32 **MAGNA TOOL INC** **CERS HAZ WASTE** **S118599464**
NNW **5594 MARKET PLACE** **NPDES** **N/A**
< 1/8 **CYPRESS, CA 90630** **CIWQS**
0.092 mi. **CERS**
484 ft. **Site 1 of 5 in cluster H**

Relative: Higher
Actual: 38 ft.

CERS HAZ WASTE:

Name:	MAGNA TOOL INC
Address:	5594 MARKET PL
City,State,Zip:	CYPRESS, CA 90630
Site ID:	366224
CERS ID:	10517311
CERS Description:	Hazardous Waste Generator

NPDES:

Name:	MAGNA TOOL INC
Address:	5594 MARKET PLACE
City,State,Zip:	CYPRESS, CA 90630
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:	8 30NEC001852
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:	Active
Status Date:	02/23/2016
Operator Name:	Magna Tool Inc
Operator Address:	5594 Market Place
Operator City:	Cypress
Operator State:	California
Operator Zip:	90630

MAGNA TOOL INC (Continued) **S118599464**

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	469324
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 30NEC001852
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	02/05/2016
Processed Date:	02/23/2016
Status:	Active
Status Date:	02/23/2016
Place Size:	.48
Place Size Unit:	Acres
Contact:	Robert Aguirre
Contact Title:	Manager
Contact Phone:	714-826-2500
Contact Phone Ext:	Not reported
Contact Email:	raguirre@magnatoolinc.com
Operator Name:	Magna Tool Inc
Operator Address:	5594 Market Place
Operator City:	Cypress
Operator State:	California
Operator Zip:	90630
Operator Contact:	Robert Aguirre
Operator Contact Title:	Manager
Operator Contact Phone:	714-826-2500
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	raguirre@magnatoolinc.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	714-826-2500
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported

MAGNA TOOL INC (Continued) **S118599464**

Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Y
Receiving Water Name:	Storm drain tributary to San Gabriel River
Certifier:	Tracy Melton
Certifier Title:	Executor
Certification Date:	07-SEP-16
Primary Sic:	3599-Industrial and Commercial Machinery and Equipment, NEC
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	469324
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 30NEC001852
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/23/2016
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Magna Tool Inc
Discharge Address:	5594 Market Place
Discharge City:	Cypress
Discharge State:	California
Discharge Zip:	90630
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported

MAGNA TOOL INC (Continued) **S118599464**

Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	MAGNA TOOL INC
Address:	5594 MARKET PLACE
City,State,Zip:	CYPRESS, CA 90630
Facility Status:	Active
NPDES Number:	CAS000001
Region:	8
Agency Number:	0
Regulatory Measure ID:	469324
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	8 30NEC001852
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/23/2016
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported

MAGNA TOOL INC (Continued) **S118599464**

Discharge Address:	5594 Market Place
Discharge Name:	Magna Tool Inc
Discharge City:	Cypress
Discharge State:	California
Discharge Zip:	90630
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	469324
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 30NEC001852
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	02/05/2016
Processed Date:	02/23/2016
Status:	Active
Status Date:	02/23/2016
Place Size:	.48
Place Size Unit:	Acres
Contact:	Robert Aguirre
Contact Title:	Manager
Contact Phone:	714-826-2500
Contact Phone Ext:	Not reported
Contact Email:	raguirre@magnatoolinc.com
Operator Name:	Magna Tool Inc
Operator Address:	5594 Market Place
Operator City:	Cypress
Operator State:	California
Operator Zip:	90630
Operator Contact:	Robert Aguirre
Operator Contact Title:	Manager
Operator Contact Phone:	714-826-2500
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	raguirre@magnatoolinc.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported

MAGNA TOOL INC (Continued) **S118599464**

Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	714-826-2500
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Y
Receiving Water Name:	Storm drain tributary to San Gabriel River
Certifier:	Tracy Melton
Certifier Title:	Executor
Certification Date:	07-SEP-16
Primary Sic:	3599-Industrial and Commercial Machinery and Equipment, NEC
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	469324
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 30NEC001852
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/23/2016
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Magna Tool Inc
Discharge Address:	5594 Market Place
Discharge City:	Cypress
Discharge State:	California
Discharge Zip:	90630
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported

MAGNA TOOL INC (Continued) **S118599464**

Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Name:	MAGNA TOOL INC
Address:	5594 MARKET PLACE
City,State,Zip:	CYPRESS, CA 90630
Agency:	Magna Tool Inc

MAGNA TOOL INC (Continued) **S118599464**

Agency Address:	5594 Market Place, Cypress, CA 90630
Place/Project Type:	Industrial - Industrial and Commercial Machinery and Equipment, NEC
SIC/NAICS:	3599
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 30NEC001852
NPDES Number:	CAS000001
Adoption Date:	01/01/1900
Effective Date:	02/23/2016
Termination Date:	01/01/1900
Expiration/Review Date:	01/01/1900
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:	33.80828
Longitude:	-118.03457

CERS:

Name:	MAGNA TOOL INC
Address:	5594 MARKET PLACE
City,State,Zip:	CYPRESS, CA 90630
Site ID:	536187
CERS ID:	844345
CERS Description:	Industrial Facility Storm Water

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-03-2016
Violations Found:	No
Eval Type:	Industrial Storm Water Compliance Evaluation
Eval Notes:	Regional Water Board staff (staff) conducted a No Exposure Certificate inspection on the above facility on November 04, 2016. The facility had no industry equipment or material exposed to storm water. The facility's current condition meets the Industrial General Permit, NEC. No further action is required.
Eval Division:	Water Boards
Eval Program:	INDSTW
Eval Source:	SMARTS

Affiliation:

Affiliation Type Desc:	Owner/Operator
Entity Name:	Magna Tool Inc
Entity Title:	Operator
Affiliation Address:	5594 Market Place
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported

MAGNA TOOL INC (Continued) **S118599464**

Name: MAGNA TOOL INC
Address: 5594 MARKET PL
City,State,Zip: CYPRESS, CA 90630
Site ID: 366224
CERS ID: 10517311
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 366224
Site Name: MAGNA TOOL INC
Violation Date: 04-26-2019
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 inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 05/09/2019. OBSERVATION: Chemical Inventory on CERS requires corrections. CORRECTIVE ACTION: Please see regulator comments on CERS, make necessary corrections and resubmit within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 366224
Site Name: MAGNA TOOL INC
Violation Date: 10-24-2014
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 03/16/2016.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 366224
Site Name: MAGNA TOOL INC
Violation Date: 06-29-2017
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: Not reported
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 366224
Site Name: MAGNA TOOL INC
Violation Date: 04-10-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to 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 04/14/2020. The facility failed to submit

MAGNA TOOL INC (Continued) **S118599464**

the hazardous materials business emergency plan on CERS by the due date of March 1, 2020. Corrective action: Within 30 days, notify this Agency that the hazardous materials inventory has been submitted.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 366224
Site Name: MAGNA TOOL INC
Violation Date: 06-29-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Not reported
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 366224
Site Name: MAGNA TOOL INC
Violation Date: 10-24-2014
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 03/16/2016.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-16-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Met with Manager John Short of Magna Tool. Consent was provided to enter and conduct inspection activities. Magna Tool has submitted the HMBEP into the CERS database. The Submittal was reviewed and accepted on this date. The following chemicals were observed: -Waste cooling oil - 330 gallons -New Cooling Oil - 355 gallons -Oxygen - 550 cu.ft. Acetylene - 300 cu.ft. Please note that if the facility decides to discontinue any of the above chemicals, proper disposal or removal of chemicals is required and maintenance of disposal records will be verified. Within 30 days of removal, contact this agency to verify that the hazardous material is no longer stored on site and remove it from the facility's listed disclosable chemicals.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-16-2016

MAGNA TOOL INC (Continued) **S118599464**

Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. Met with Manager John Short of Magna Tool. Consent to enter and inspect the facility was granted. Hazardous waste observed on site included: - (6) 55 gallon drums containing Waste cooling Oil/water mixture. All waste containers were properly stored closed. The containers had labels that were illegible. The labels were re-inked.. Hazardous waste manifests for all hazardous waste streams were available for review. Perimeter of the facility was inspected. Did not observe any indication of a hazardous waste release or illegal dumping along the perimeter of the facility. The Hazardous Waste Emergency Response information was available in the emergency response plan.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-10-2020
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The facility has failed to submit the Hazardous Materials Business Emergency Plan by the deadline March 1, 2020. To correct the violation log on to CERS and submit the business plan for the year 2020. A copy of this report was sent to robert@magnatoolinc.com.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-14-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed the submittal dated 4/14/2020 for sections: Facility Information, Hazardous Materials Inventory, and Emergency Response and Training Plans. All sections were accepted. Violation I463 was observed to be corrected, no further corrective action required. A copy of this report was sent to robert@magnatoolinc.com.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-15-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	2016 review: CERS - accepted all forms w/ corrections to be added later
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-23-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	4/23/16: SUBMITTED 3/11/16 | ACCEPTED 4/15/16. Violations ABATED.

MAGNA TOOL INC (Continued) **S118599464**

Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-26-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct routine hazardous waste inspection. Walked the internal and exterior areas of facility. Observed hazardous waste storage area and hazardous waste containers. Contingency plan and manifests for waste pick-up were available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-26-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine Hazardous Materials Business Plan (HMBP) inspection. Observed the following hazardous materials on site in reportable quantities (all sizes are approximate): - 5 x 55 gal drums of waste oil/coolant mix - 550 cubic ft of oxygen - 300 cubic ft of acetylene - 75 gal of new oil Per California Health & Safety Code Ch. 6.95, businesses that store and handle hazardous materials at or over reportable quantities (55 gal of a liquid, 500 lbs of a solid, 200 cubic ft of a compressed gas) must prepare and implement an HMBP. The HMBP must include the following elements: - Business Activities - Owner/Operator Information - Chemical Inventory - Site Map - Emergency Response Plan/Training Plan The HMBP must be submitted online through the California Environmental Reporting System (CERS) by March 1st of every year. The facility is responsible for identifying all hazardous materials, including hazardous wastes, which are at or above disclosure [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-09-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Assisted facility with all required corrections to HMBP. Full HMBP submitted at the time of re-inspection. The following violations have been abated: - I463: Annually reviewed and certified that HMBP is complete and accurate. - I632: Adequate completion of site map with all required elements. - I169: Complete chemical inventory submitted on CERS. Please review and resubmit the HMBP by March 1st of every year.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-24-2018
Violations Found:	No

MAGNA TOOL INC (Continued) **S118599464**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	The facility has submitted their 2018 Annual HMBP certification to CERS. The submission was declined due to the ER plan not being submitted for 2018. I emailed Linda, whom submitted the HMBEP: "Hello Linda, I reviewed your facilityG s Hazardous Materials Disclosure on CERS. For your annual, 2018 certification, all three sections (Facility Information, Hazardous Materials Inventory, Emergency Response and Employee Training Plan) must be submitted together. Violations I463 and I632 for the site map, and failure to renew the submission annually will remain outstanding until all parts of the submission are submitted. Please contact me if you need assistance, thank you."
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-24-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed Facility's CERS Hazardous Materials Disclosure and Business Emergency Plan. Facility Information has been accepted. Hazardous Materials Inventory has been DECLINED for Site Map. The Site Map uploaded is not clearly legible and is missing required information. Please upload a clear site map with the following information: north orientation, loading areas and internal roads if applicable, adjacent streets, storm drains and sewers, access and exit points, emergency gas/water/electric shutoffs, evacuation staging areas, hazardous material storage and handling areas, and emergency response equipment (fire extinguishers and hydrants). You have failed to complete your annual Hazardous Materials Disclosure and Business Emergency Plan renewal certification by not submitting your Emergency Response and Employee Training Plan. A violation has been cited and a copy of the report has been sent to linda@magnatoolinc.com and robert@magnatoolinc.com
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-24-2014
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Orange County Environmental Health as the Certified Unified Program Agency (OC CUPA) is the administrating agency for the Hazardous Materials Disclosure and Business Emergency Plan programs (HMD/BEP) previously administered by the Orange County Fire Authority. During the months of August and December of 2013, the OC CUPA sent out

MAGNA TOOL INC (Continued) **S118599464**

letters to regulated businesses requesting them to electronically submit their HMD/BEP forms. Electronic submission of these forms is a legal requirement. Failure to submit HMD/BEP forms is in violation of the California Health & Safety Code Chapter 6.95. According to our records there is no electronic submission for this facility. Please go to www.esubmit.ocgov.com to request a username and password and submit your HMD/BEP forms within the next 30 days. Businesses may also submit forms via the California Environmental Reporting System. Please verify that all owner information that is prepopulated on the E-Submit Portal is still [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 366224
Site Name: MAGNA TOOL INC
Site Address: 5594 MARKET PL
Site City: CYPRESS
Site Zip: 90630
Enf Action Date: 06-24-2015
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: HMD/BEP.
Enf Action Division: Orange County Environmental Health
Enf Action Program: UNSPEC
Enf Action Source: CERS

Coordinates:
Site ID: 366224
Facility Name: MAGNA TOOL INC
Env Int Type Code: HWG
Program ID: 10517311
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.808030
Longitude: -118.034540

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Robert Aguirre
Entity Title: Operations Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Tracy Melton
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

MAGNA TOOL INC (Continued) **S118599464**

Affiliation Zip:	Not reported
Affiliation Phone:	(714) 721-3544
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406
Affiliation Type Desc:	Document Preparer
Entity Name:	Robert Aguirre
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Robert Aguirre
Entity Title:	Not reported
Affiliation Address:	5594 MARKET PL
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	5594 MARKET PLACE
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	MAGNA TOOL INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	MAGNA TOOL INC
Entity Title:	Not reported
Affiliation Address:	5594 MARKET PL

MAGNA TOOL INC (Continued) **S118599464**

Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(714) 721-3544

H33 **MAGNA TOOL INC** **RCRA NonGen / NLR** **1024786712**
NNW **5594 MARKET PLACE** **CAL000022312**
< 1/8 **CYPRESS, CA 90630**
0.092 mi.
484 ft. **Site 2 of 5 in cluster H**

Relative: **Higher**

Actual: **38 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		1990-05-09 00:00:00.0
Handler Name:	MAGNA TOOL INC	
Handler Address:		5594 MARKET PLACE
Handler City,State,Zip:		CYPRESS, CA 90630-0000
EPA ID:		CAL000022312
Contact Name:		LINDA FINAN,
Contact Address:		5594 MARKET PL
Contact City,State,Zip:		CYPRESS, CA 90630
Contact Telephone:		714-826-2500
Contact Fax:		714-826-2013
Contact Email:		LINDA@MAGNATOOLINC.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:		5594 MARKET PL
Mailing City,State,Zip:		CYPRESS, CA 90630-4710
Owner Name:		BOB S. MELTON LIVING TRUST
Owner Type:		Other
Operator Name:		LINDA FINAN,
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:		---

MAGNA TOOL INC (Continued) **1024786712**

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:	2018-09-05 15:41:06.0
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:	BOB S. MELTON LIVING TRUST
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5594 MARKET PL
Owner/Operator City,State,Zip:	CYPRESS, CA 90630-4710
Owner/Operator Telephone:	714-721-3544
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	LINDA FINAN,
Legal Status:	Other
Date Became Current:	Not reported

MAGNA TOOL INC (Continued) **1024786712**

Date Ended Current:	Not reported
Owner/Operator Address:	5594 MARKET PL
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-826-2500
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1990-05-09 00:00:00.0
Handler Name: MAGNA TOOL 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:	332439
NAICS Description:	OTHER METAL CONTAINER MANUFACTURING
NAICS Code:	333414
NAICS Description:	HEATING EQUIPMENT (EXCEPT WARM AIR FURNACES) MANUFACTURING
NAICS Code:	336399
NAICS Description:	ALL OTHER MOTOR VEHICLE PARTS MANUFACTURING

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

H34 **HYBRID APPAREL** **RCRA NonGen / NLR** **1026045617**
NNW **5574 MARKET PL** **CAC003052050**
< 1/8 **CYPRESS, CA 90630**
0.097 mi.
514 ft. **Site 3 of 5 in cluster H**

Relative: **Higher**
Actual: **38 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2020-01-21 00:00:00.0
Handler Name:	HYBRID APPAREL
Handler Address:	5574 MARKET PL
Handler City,State,Zip:	CYPRESS, CA 90630
EPA ID:	CAC003052050
Contact Name:	ALBERT QUEVEDO
Contact Address:	5574 MARKET PL
Contact City,State,Zip:	CYPRESS, CA 90630
Contact Telephone:	714-952-3866
Contact Fax:	Not reported

HYBRID APPAREL (Continued) **1026045617**

Contact Email:	MICHAEL.BARTELLI@SAFETY-KLEEN.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:	5574 MARKET PL
Mailing City,State,Zip:	CYPRESS, CA 90630
Owner Name:	ALBERT QUEVEDO
Owner Type:	Other
Operator Name:	ALBERT QUEVEDO
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

HYBRID APPAREL (Continued) **1026045617**

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:	2020-02-10 17:52:54.0
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:	ALBERT QUEVEDO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5574 MARKET PL
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-952-3866
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ALBERT QUEVEDO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5574 MARKET PL
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-952-3866
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2020-01-21 00:00:00.0
Handler Name: HYBRID APPAREL	
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

HYBRID APPAREL (Continued) **1026045617**

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

H35 **SMIT J K SONS INC** **RCRA-SQG** **1000392495**
NW **5554 MARKET PLACE** **FINDS** **CAD040373938**
< 1/8 **CYPRESS, CA 90630** **ECHO**
0.097 mi.
514 ft. **Site 4 of 5 in cluster H**

Relative: **Higher**
Actual: **38 ft.**

RCRA-SQG:

Date Form Received by Agency:		1996-09-01 00:00:00.0
Handler Name:	SMIT J K SONS INC	
Handler Address:		5554 MARKET PLACE
Handler City,State,Zip:		CYPRESS, CA 90630
EPA ID:		CAD040373938
Contact Name:		Not reported
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		CA
State District:		4
Mailing Address:		MARKET PLACE
Mailing City,State,Zip:		CYPRESS, CA 90630
Owner Name:		JK SMIT & SONS INC
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

SMIT J K SONS INC (Continued) **1000392495**

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:	2000-09-15 17:29:15.0
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

SMIT J K SONS INC (Continued) **1000392495**

Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: JK SMIT & SONS INC
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: 1996-09-01 00:00:00.0
Handler Name: SMIT J K SONS INC
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 Code: 333515
NAICS Description: CUTTING TOOL AND MACHINE TOOL ACCESSORY MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002643863

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

SMIT J K SONS INC (Continued) **1000392495**

ECHO:
- Envid: 1000392495
- Registry ID: 110002643863
- DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002643863
- Name: SMIT J K SONS INC
- Address: 5554 MARKET PLACE
- City,State,Zip: CYPRESS, CA 90630

I36 **COSTCO WHOLESALE #748 (GAS STATION)** **CERS HAZ WASTE** **S123499016**
WSW **10901 WALKER ST** **CERS TANKS** **N/A**
< 1/8 **CYPRESS, CA 90630** **CERS**
0.098 mi.
515 ft. **Site 1 of 2 in cluster I**

Relative: Lower
Actual: 36 ft.

CERS HAZ WASTE:
- Name: COSTCO WHOLESALE #748 (GAS STATION)
- Address: 10901 WALKER ST
- City,State,Zip: CYPRESS, CA 90630
- Site ID: 108324
- CERS ID: 10343356
- CERS Description: Hazardous Waste Generator

CERS TANKS:
- Name: COSTCO WHOLESALE #748 (GAS STATION)
- Address: 10901 WALKER ST
- City,State,Zip: CYPRESS, CA 90630
- Site ID: 108324
- CERS ID: 10343356
- CERS Description: Underground Storage Tank

CERS:
- Name: COSTCO WHOLESALE #748 (GAS STATION)
- Address: 10901 WALKER ST
- City,State,Zip: CYPRESS, CA 90630
- Site ID: 108324
- CERS ID: 10343356
- CERS Description: Chemical Storage Facilities

Violations:
- Site ID: 108324
- Site Name: Costco Wholesale #748 (Gas Station)
- Violation Date: 04-03-2017
- Citation: HSC 6.7 25290.1(c), 25290.2(c), 25291(a)(2), 25292(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c), 25290.2(c), 25291(a)(2), 25292(e)
- Violation Description: Failure to maintain secondary containment (e.g. failure of secondary containment testing).
- Violation Notes: Returned to compliance on 05/18/2017. The 3/4, 7/8, 9/10, 11/12, and 15/16 failed testing (see violation). Application for UST modification SR0129450 has been approved for the replacement of the failed UDCs. Ensure the UDCs are removed and the replacement of the new UDCs occurs with-in 30 days.
- Violation Division: Orange County Environmental Health
- Violation Program: UST
- Violation Source: CERS

- Site ID: 108324

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

Site Name:	Costco Wholesale #748 (Gas Station)
Violation Date:	05-06-2014
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 06/02/2014. The S12 vapor line vacuum sensor in the 87 B STP sump was setting off an alarm due to low vacuum. Please send me the results showing that the issues involving the S12 sensor were corrected.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	108324
Site Name:	Costco Wholesale #748 (Gas Station)
Violation Date:	05-06-2014
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 05/06/2014. Spill bucket failed the hydrostatic test. The spill bucket was repaired and the violation was corrected during this inspection.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	108324
Site Name:	Costco Wholesale #748 (Gas Station)
Violation Date:	04-19-2018
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 04/23/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	108324
Site Name:	Costco Wholesale #748 (Gas Station)
Violation Date:	04-28-2015
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 06/27/2015. The spill bucket on the 87B fill Sump failed. Please repair the spill bucket, retest, and submit a copy of the results to this agency within 30 days of this date.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	108324
Site Name:	Costco Wholesale #748 (Gas Station)
Violation Date:	05-18-2017
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,

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

operated, and/or maintained properly.
Violation Notes: Returned to compliance on 05/25/2017. The additive tank's (Tank #4) mechanical line leak detector failed testing. Ensure the leak detector is replaced and retested immediately. Forward the results from the retest to this agency with-in 30 days.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 108324
Site Name: Costco Wholesale #748 (Gas Station)
Violation Date: 06-01-2020
Citation: 23 CCR 16 2712(i), 2632(d)(2), 2634(e), 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i), 2632(d)(2), 2634(e), 2641(h)
Violation Description: Failure to submit a current UST Response Plan available on site.
Violation Notes: Returned to compliance on 06/19/2020. OBSERVATION: The Leak Response Plan (LRP) was not available for review at the facility. CORRECTIVE ACTION: Obtain a copy of the LRP and maintain on site within 30 days. Notify this Agency once this has been completed.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 07-09-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: responded to voicemail from Dani Gentry of Costco. Also resent a copy of the reinspection report for her records.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-12-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received the Financial Certification. Coverage period is from 7/01/2013 to 7/01/2014
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-14-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On 2/18/2014, received SB989 secondary containment test results for the UDCs performed on 2/5/2014 by Leonard Evans, Service Technician, with Wayne Perry, Inc. The tanks, sumps, and piping at this site are monitored by VPH system, and do not require SB989 testing. However the dispenser containment sumps are not monitored by VPH and therefore SB989 testing must be performed every 3 years. Secondary containment testing of the UDCs was recently performed on 2/5/2014 and the results indicate all components passed. No further action required.

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-18-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Review file for outstanding violation. Corrected TD01 a Service Request has been opened SR0121677
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-22-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Met with Jennifer, transferred file and provided info., reviewed file and made notes.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-28-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed and accepted electronic UST forms. Facility has updated their CFR forms. Coverage is provided by an insurance policy with an effective date of 7/1/17 to 7/1/18.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-31-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Costco The following was discussed: No permit needed Sent from my iPhone On Jul 31, 2013, at 9:59 AM, "Kellen Hanemaayer" <kellenh@westernpump.com> wrote: Hi Jennifer, Per our telephone conversation earlier this morning regarding CostcoG s line repair. I just want to confirm a permit is not required. SCOPE OF WORK: -Last Friday (7-26-13) Western Pump replaced a 2G G X 18G G flex line in the 91 turbine sump. Our techs coned off and shut down (91) STP sump. We evacuated the 91 product line by blowing it down with nitrogen to the 91 UST. Then we switched out the flex line. After installing the new flex line, the line was purged from all air pockets and put back in service. The repairs only consisted of working on the 2G G primary line (flex hose) in the turbine (91) sump. Thank You, Project Coordinator KELLEN HANEMAAYER WESTERN PUMP,INC DIRECT LINE 619-578-2180 CELL LINE 619-446-9818 FAX LINE 619-236-7406
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

Eval General Type:	Other/Unknown
Eval Date:	08-04-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS HMBEP Facility Information accepted
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	08-15-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received test results conducted due to a Veeder-Root system upgrade. - All tank and UDC sensors were tested and passed. - All line leak detectors were tested and passed. - The liquid float kit was replaced due to causing loss of vacuum for the 87A vent siphon line.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	08-19-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Spoke to Dennis Bock on this date regarding Brine sensors in alarm. He indicated that the brine alarms are in the process of being investigated. October is the date of installation of the additive tank and he indicated that during this process, this site will also break concrete on the sumps which have the brine leaking to mitigate the problem of leaking brine. In the mean time the Veeder-Root monitor will have a alarm for L21 87 B brine and L24 91 brine (no positive shut down) Related to SR0121677
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	08-19-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Discussed site with J. Negro, stated she received call from Costco Corp. rep. Dennis Bock, not able to repair brine leak by replacing penetrations and flex hose (SR0121677). Repairs will be addressed in October 2013 when additive tank is installed. Veeder-Root panel is to show alarms, not to x out. VPH site, able to continue operating with alarms.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	09-22-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Submission in review on CERS. UST file purged.
Eval Division:	Orange County Environmental Health

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-23-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Submission in review.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-28-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Submission in review.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-28-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and accepted UST submittal. Facility has included a new leak response plan and updated the DO statement.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-29-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST documents declined in CERS. Request for re-submittal.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-04-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and accepted the CERS disclosure.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-13-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

Eval General Type:	Other/Unknown
Eval Date:	10-13-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS submittal in review.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	10-13-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS: Reviewed and accepted the CERS disclosure.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	10-25-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received plans for review on 10/25/2013 from R. Long. Reviewed plans, noted SR#0120715, approved by J. Negro on 3/7/2013, for installation of 1500 gallon UST to contain Lubrizol gasoline additive (Class 1 Flammable), is for this site. Plans and drawings for this SR # is for the removal of a total 19 Western Fiberglass double wall cuff penetrations and replacing with 19 Bravo System double wall rigid boots. Review of SR#0120715 submittals indicate Bravo System boots are compatible with the Lubrizol additive. Contacted applicant of this SR, Kellen Hanemaayer with Western Pump, Inc., to obtain more information as to the purpose of the penetration replacements. No part numbers were provided, and if the use of Lubrizol is the reason for the replacement, need to obtain manufacturer compatibility statement. Spoke with Mr. Hanemaayer, he stated reason for replacement of penetration boots is because they are having leaking brine alarms and believe it's due to the [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	10-25-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SR#0122564 and plans were submitted for the removal of a total 19 Western Fiberglass double wall cuff penetrations and replacing with 19 Bravo System double wall rigid boots. Review of file indicates plans were submitted, SR#0120715 and approved by J. Negro on 3/7/2013, for installation of 1500 gallon UST to contain Lubrizol gasoline additive (Class 1 Flammable), at this site. Review of SR#0120715 submittals indicate Bravo System boots are compatible with the Lubrizol additive. Contacted applicant of SR#0122564, Kellen Hanemaayer with Western Pump, Inc., to obtain more information as to the purpose of the penetration replacements. He stated reason for replacement of penetration boots is because they are having leaking brine alarms and believe it's due to the current boots leaking. Costco has requested

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

	all boots be replaced while the repairs are being done. Requested Mr. Hanemaayer provide the proposed Bravo boot part numbers and the manufacturers compatibility [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-28-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST documents accepted in CERS The following documents were received: UST Facility Page UST Tank Pages, 4 tanks (87A, 87B, 91, Lubrizol) Monitoring Plan Leak Response Plan Facility Diagram DO Statement: Belshire Environmental Services, Inc. Monitoring system certification last performed 4/28/15 SB989 certification dated 5/3/13 CFR dated 6/29/15; coverage period 6/29/15-6/29/16; Insurance policy coverage. Policy not uploaded.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-31-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Denied.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-19-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	M Sutphin approved plans for the modification of the UST facility. Facility ios adding 4 UDCs and lines . new stem is a VPH system. ..
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-20-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Sent email to Kellen Hanemaayer at Western Pump for status of repair work to correct brine alarms. Also a status on Lubrizol tank install.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-20-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	plans approved and packaged for Fedex as per request of Costco’s contractor per notary signed letter.

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-21-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	reviewed plans for four new UDCs anf associated piping
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-28-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed CERS UST submittal and took notes. Did not change submittal status yet.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-01-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Erdman was on site to witness the soap test of the vapor and vent primary piping. I met with construction contact Mr. Don Prescott. All the vapor and vent primary connections were soaped and no bubbling was observed. The primary piping connection testing is complete and all connections passed the soap test. The secondary piping test is schedule for later today.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-01-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SR0129450 On site to conduct a Secondary piping inspection. I met with Don Prescott. All piping secondary connections were soaped and no bubbles were observed. All piping primary and secondary has passed the soap test. NOTE the secondary piping for the vapor lines was not tested today. A follow-up inspection will be conducted to verify the Secondary vent lines are tight. Glycerin filled gauges were observed being used. The pressure on the primary piping held 55 psi for both the 87 and the 91 piping throughout the testing. The secondary piping held 5 psi on the 87 line and 11 psi on the 91 line. Also noted was all the UDC secondary containment have held 10 mmHg vaccuum.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-02-2017

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SR0129450 Erdman On site to witness the soap test of the secondary piping of the vapor and vent lines. I met with Mr. Don Prescott and he indicated that the vapor and vent secondary was not holding pressure as they had a major leak somewhere in the system. They began trouble shooting to find the leak. No test was witnessed today. Later in the day I received a call from Don and he stated they found the leaking component but did not have the part to complete the repair. He will call tomorrow 5-3-17 to retest the vapor and vent line.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-03-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SR0129450 On site to witness the Vapor secondary piping soap test. I met with the contact Don Prescott. They found and repaired the leak. The line held 7 psi at the furthest UDC. All UPP connections were soaped. No leaks were observed. The Secondary of the vapor lines passed the soap test. The UDCs were observed with brine filled secondary containment.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-06-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to witness annual monitor certification and to conduct a routine UST inspection. Met with Larry Stearn of Costco, William Karras of WSK and Sons Inc., and Jim Gonzalez and John of Jones Covey. William Karras conducted the tank testing, monitor system certification, and spill bucket testing. Mr. Karras ICC, VPM, and Veeder-Root certifications were observed and verified. The facility contains: - (3) 30,000 gallon double walled UST (87 A, 87 B, and 91) containing gasoline. - (1) 1,500 gallon double walled UST containing Lubrisol fuel additive. All USTs are continuously monitored by a Veeder-Root TLS-350R system. All USTs and sumps contain brine in the interstitial space. In addition, the containment box for the vent lines also contains brine in the interstitial space. Piping secondary containment is monitored under constant vacuum. Alarm history and set-up tape was reviewed during this inspection. The panel was in alarm due to an issue with the 87 B UST [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-07-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Service request #0120715 was opened on 11/29/2012 to install a new fuel additive tank. During installation of the new tank, additional

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

construction to remove existing tank fill and turbine sump tops on 87A, 87B, and 91 tanks and replace with new Containment Solutions sump tops and new penetrations in order to address leaking brine and brine alarms. Inspections of sumps, secondary containment, penetrations, and piping connections all passed testing during construction. All construction was completed under SR #0120715 as of 5/6/2014. This complaint closed as of this date, 5/7/2014. Additional service requests (#0121677 & 0122564) were opened to address the brine alarm issues in order to perform repairs, these were also closed as of this date.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-07-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This service request was opened, plans submitted, but not approved. Proposal was to replace the double wall sump penetrations on the turbine sumps of 87A, 87B, and 91 tanks. Later informed this work was not being performed since a separate contractor would be installing a new fuel additive tank and the tank sumps were to be replaced with new penetrations. Closing this SR number. Refer to SR#0120715, dated 11/29/2012, and closed on 5/7/2014, for installation of fuel additive tank and replacement of fill and turbine sump tops with new penetrations to tanks 87A, 87B, and 91 tanks. Also closed complaint CO0051925 related to sump brine alarms.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-11-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received the test results from the soil sampling and forwarded the results to Julie W. in LOP. All but the #1 sample were Non Detect. The #1 sample sample came back with a small amount of TPH but no VOCs. As per Julie, it is not enough to open a case. I also spoke with Don Prescott and the final inspection and Monitoring System Certification was scheduled form 5-18-17.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-18-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS 10343356 review began today but was not completed. The monitoring plan has the 91 STP sump sensor as a Mag 102 and the sensor in this sump is a Mag 112. All other components appear to be correct.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

Eval General Type:	Other/Unknown
Eval Date:	05-18-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SR0129450 Erdman was on site to conduct the final inspection and to witness the post construction Monitoring System Certification test. The post modification monitoring system certification testing was completed by Axel Medina of Tanknology. I met with Don Prescott. The scope of work included the following: - adding a new Veeder Root TLS 350R - replacing all the existing UDCs with new VPH UDCs - adding 4 new VPH UDCs - re-piping the fuel lines and vent and vapor lines from existing piping to all UDCs - Install new 4hp STP on both 87 USTs and added a 4hp STP to 91 UST. The new VR panel is located next to the original panel and is operating properly. All 12 UDCs were filled with brine and the reservoirs are holding brine without leaks and the VR 304 sensors and the VR 323 sensors are operating properly. The vacuum sensors in the 87 and Additive tanks STP sumps were tested and all passed testing. Note the 91 piping vacuum line has a small leak near the A new [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-18-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a final inspection of Plan Check SR0129450 and to witness the post construction Monitoring System Certification to verify operation of the Monitoring System. As per the facility, todayG s testing will replace the annual test date and therefore the next annual Monitoring System Certification test is due by 5-18-18. The facility has two Veeder-Root TLS-350R monitoring panels and both displayed "all functions normal" and audible and visual alarms were demonstrated operational. Positive shut down and fail safe were confirmed operational. The original panel was noted marked with a sticker from the most recent monitoring certification (4/4/17). The sticker was posted on the 2nd panel during this inspection. I met with the contractor Don Prescott and the tester Axel Media from Tanknology. The testerG s certification and licenses are current and valid (ICC, VR, VMI) The facility has removed all the original UDCs and replaced them with hydrostatically monitored [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	05-25-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site to witness the Additive Tank #4 leak detector retest. TanknologyG s Jeremy Ryder was on site to conduct the testing. His Certifications and licenses are current and valid (ICC and VMI). The FE Petro STP MLLD+D leak detector triggered slow flow when a 3 gph leak was simulated resulting in a passing leak detector test. Therefore violation I188 has been corrected. This completes the required testing for Plan Check SR01295450. Ensure the results are

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

	forwarded to this agency with-in 30 days.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-25-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SR0129450 On site to witness the Additive Tank #4 leak detector retest. Met with the contractor Don Prescott. TanknologyG s Jeremy Ryder was on site to conduct the testing. His Certifications and licenses are current and valid (ICC and VMI). The FE Petro STP MLLD+D leak detector triggered slow flow when a 3 gph leak was simulated resulting in a passing leak detector test. This completes the required testing for Plan Check SR01295450. Ensure the results are forwarded to this agency with-in 30 days.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-31-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS 10343356 Review conducted today. The Business Activities and Business Owner / Operator was accepted. The UST submission was not accepted. This review was conducted by Brian Erdman and is not accepted. The Monitoring Plan for the 91 UST has indicated the STP sump has a Mag 102 sensor and the sensor in the sump was observed to be a Mag 112. Please update this sensor in the monitoring plan and the UST site map then resubmit with-in 30 days.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-01-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to review UST documents. Monitor system certification conducted on 4/14/20 was not witnessed due to COVID-19 precautions. The site has the following double-walled tanks: - 30,000 gal 87 Main - 30,000 gal 87 Siphon - 30,000 gal 91 - 1,500 gal Lubrizol Additive UST system is monitored via two, TLS-350 Panels. Monitors are operational for audible and visual alarms. Annulars: - 87 tanks / 91 = VR-301 - Lubrizol = VR-303 Fill Sumps: - 87 Main = VR-102/VR-304 - 87 Siphon = VR-112/VR-304 - 91 = VR-112/VR-304 - Lubrizol = VR-323/VR-304 STP Sumps: - 87 Main = VR-100/VR-102/VR-304 - 87 Siphon =VR-100/ VR-112/VR-304 - 91 = VR-100/VR-112/VR-304 Vent Transition Sump/UDCs: - VR-323/VR-304 LLDs: - 87 tanks / 91 = VR-PLLD - Lubrizol = FE Petro STP-MLD Facility has submitted on CERS. The following documents were available for review: - Permit to Operate - Certificate of Financial Responsibility w/ Chief Financial Officer - [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

Eval General Type:	Other/Unknown
Eval Date:	06-02-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor Cert. Received monitoring system certification. During the May 6, 2014 monitoring certification testing, the S-12 sensor was not holding vacuum. A leak was found at the fill end. Per the monitoring system certification, this issue was corrected. The violation issued in the 5/6/14 inspection report has been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-04-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST notification received for SB989 testing
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-07-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Email Correspondence on Status Thank you Mike for the update. The repair to the brine sumps is critical and needs to be done sooner than later. If there is a delay with installing the Lubrizol tank, then need to move forward with replacing or repairing sumps. For your reference, the following service request applications were submitted for this site: SR#0120715, dated 11/29/2012 and approved 3/7/2013 G Lubrizol Tank Install G Contractor: Jones Covey Group G Note: Service Request expires 3/7/2014, may be able to transfer this project to one of the following 2 SR #s. SR#0121677, dated 5/21/2013 and approved 5/22/2013 G Replaced Penetration Boots 91 & 87 STP Sumps G Contractor: Jones Covey Group G Note: The plans were not closed since repairs were not successful, expires 5/22/2014 SR#0122564, dated 10/15/2013 but not approved, waiting for update to original scope of work per Kellen with Western Pump G Contractor: Western Pump G Note: The service request is still [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-11-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST e-submittal on CERS was denied due to expired CFR and Owner operator DO statement.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-28-2014

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Submission under review.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-28-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Submission under review.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-28-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS Review conducted. The following items have been revised to appropriately reflect the current documentation for and/or equipment at this facility: -UST Facility Operating Permit Application -UST Information for Tank 4, -UST Monitoring Plans for Tanks 1-4 Belshire Environmental Services has also updated and uploaded the Owner Statement of Designated UST Operator Compliance. No changes have been made to the other items previously submitted in the UST element.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-03-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received notification from Dennis Bock with Costco, stated that on 2/28/2014, received no vacuum alarm on the vapor pipe annular. Brenda Puepke received call and informed not to X out the sensors. Western Pump was called to perform investigation and maintenance. Spoke with both Brenda and Jennifer Negro to discuss site, since issues have occurred in the past. Contacted Dennis Bock, who referred me to gasoline supervisor, Tracy, on site to obtain status. Tracy stated they are still operating and Western Pump is on site to troubleshoot issue. Spoke with Mike, technician on site. Mike stated approx 2 weeks ago, he was on site to trouble shoot similar alarm for no vacuum on vapor pipe annular. He was able to pull vacuum and held, therefore satisfied it was resolved. A week later, received same alarm, no vacuum alarm and pump shutdown not able to regenerate vacuum. Replaced sensor and was able to clear alarm. On 2/28/2014, same alarm occurred, was able to eliminate [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-14-2016
Violations Found:	No

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-16-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification for 4-4-17
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-19-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-26-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitoring system certification notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-28-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Phone call with brianna of Costco
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-29-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	review amendments to plan check
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-31-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed and approved amended plans
Eval Division:	Orange County Environmental Health

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-03-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST information review and prepared for MC and Cross training
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-03-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The results from the Secondary Containment Testing conducted on 1-23-17 by Saul Gonzalez of Belshire Environmental Services Inc. were reviewed. The testing conducted on 1-23-17 covered only the UDCs The 3/4, 7/8, 9/10, 11/12, and 15/16 failed testing (see violation). Application for UST modification SR0129450 has been approved for the replacement of the failed UDCs. Ensure this agency is contacted to witness the final inspection of SR0129450 in order to correct the outstanding UST violation. Thank you
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-04-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Consent to inspect and take photos was provided by Larry Stern. A walk through of the facility was conducted. The following Hazardous Substances were observed being stored at above the reporting threshold: HM - Gasoline - Ultrazol 9888 HW - Waste Gasoline liquids - Waste Gasoline Solids NOTE: The Clarifier sludge and liquids are a flow through system and do not need to be disclosed in the HMBEP. The designated Waste containers were observed empty at this time. This facility is responsible for identifying all hazardous materials and hazardous wastes, which are above the following disclosure thresholds: Solids > 500 pounds. Liquids > or = 55 gallons Gas > or = 200 cubic feet Site map is available for review. Employee training is available for review. Ensure the HMBEP is resubmitted by March 1st every year.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-04-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct routine UST inspection, monitoring System Certification testing and Spill Bucket testing. I met with the contacts Gus Elias, Larry Stern and Eddie Robles. The test was

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

conducted by William Karras of WSK & Sons Inc. The testerG s certification are current and valid (ICC, VR). The Veeder-Root TLS-350R monitoring panel displayed "all functions normal" and audible and visual alarms were demonstrated operational. Positive shut down and fail safe were confirmed operational. The panel was noted marked with a sticker from the most recent monitoring certification (4/6/16). The following Observations were made: Overfill utilizes the ATG which was tested and passed. The fuel UST annularG s have VR 301 sensors, all passed. The Fill and STP fuel tank sumps have VR 304 sensors and the piping secondary is continuously monitored by vacuum sensors, all passed testing. The both of the Electronic leak detectors passed testing. The UDC all have VR 323 sensors [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-06-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Disclosure Business Emergency Plan (HMBEP) inspection. Met with Station attendant Traci Howard. Consent was provided to conduct inspection activities. Costco Wholesale 748 has submitted the HMBEP into the California Environmental Reporting System (CERS) database. The last submittal was in 3/29/2016 and has been reviewed. The facility must correct and resubmit the CERS submittal within 30 days.. Disclosable chemicals verified include: - gasoline (both grades need to be combined into 1 submission) - Ultrasol - Waste gasoline/water waste - Hazardous waste oily water - Waste Solids The contingency plan and training program was verified during this inspection. Please note that if the facility decides to discontinue any of the above chemicals, proper disposal or removal of chemicals is required and maintenance of disposal records will be verified. Within 30 days of removal, contact this agency to verify that the [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-06-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to witness annual monitor certification and to conduct a routine UST inspection. Met with Traci Howard of Costco and William Karras of WSK and Sons Inc. William Karras conducted the tank testing, monitor system certification, and spill bucket testing. Mr. Karras ICC, VPM, and Veeder-Root certifications were observed and verified. The facility contains: - (3) 30,000 gallon double walled UST (87 A, 87 B, and 91) containing gasoline. - (1) 1,500 gallon double walled UST containing Lubrisol fuel additive. All USTs are continuously monitored by a Veeder-Root TLS-350R system. All USTs and sumps contain brine in the interstitial space. In addition, the vent line UDC also contains brine. Secondary containment is monitored under constant vacuum. Alarm history and set-up tape was reviewed during this inspection. The panel was in alarm due to an issue with the H8 sensor (degrader alarm for hose) unrelated to UST monitoring system. Facility contains: -Uses a

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

[Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-09-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine Hazardous Materials Business Plan (HMBP) inspection. Observed the following hazardous materials on site in reportable quantities (all sizes are approximate): - 1 x 55 gal drum of waste water mixed with fuel - 2 x 30,000 gal of unleaded 87 fuel (UST) - 1 x 30,000 gal of unleaded 91 fuel (UST) - 1 x 1500 gal of Ultrazol 9888 - Additive (UST) Per California Health & Safety Code Ch. 6.95, businesses that store and handle hazardous materials at or over reportable quantities (55 gal of a liquid, 500 lbs of a solid, 200 cubic ft of a compressed gas) must prepare and implement an HMBP. The HMBP must include the following elements: - Business Activities - Owner/Operator Information - Chemical Inventory - Site Map - Emergency Response Plan/Training Plan The HMBP must be submitted online through the California Environmental Reporting System (CERS) by March 1st of every year. The facility is responsible for identifying all hazardous [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-09-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to witness annual monitoring system certification, spill bucket test and overfill test and to conduct UST compliance inspection. The site has the following tanks: - 30,000 gal 87 (main) - 30,000 gal 87 (syphon) - 30,000 gal 91 - 1,500 gal Lubrizol 9888 (gasoline additive) Site is VPH. All tanks, product piping and sumps are double-walled. UST system is monitored via two Veeder Root TLS-350 panels. Tanks utilize ATG with audible/visual alarm for overfill prevention. Tank Annulars (hydrostatic): - 87 main/87 syphon/91 = VR301 - Lubrizol (Additive) = VR303 Fill/STP sumps: - 87 main = VR102/VR304 for Fill; VR100/VR102/VR304 for STP - 87 syphon = VR112/VR304 for Fill; VR100/VR112/VR304 for STP - 91 = VR102/VR304 for Fill; VR100/VR112/VR304 for STP - Lubrizol (Additive) = VR323/VR304 Vent Box/UDCs: - VR323/VR304 LLDs: - 87 main/87 syphon/91 = VR PLLD (electronic) - Lubrizol (Additive) = FE Petrol STP-MLD The following were tested and [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-18-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Spoke to Don regarding the remodeling of this site for piping extensions and UDCs replacement. Don wanted to know if soil samples

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

	are needed. Contacted Julie from LOP to verify. Waiting on reply.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-19-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Don Prescott of WPC called to advise us that they will be ready to obtain samples from beneath the removed UDCs this Friday, if required. I consulted Mark Sutphin on the plan approval. I was advised that Mihn had been looking into the issue for Don. I passed on the information to Minh who was consulting the issue within Julie in the LOP. She will be calling Don back.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-19-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Phone call from Don Prescott at Wayne Perry regarding soil sampling requirements for SR0129450. Various email correspondences with Julie W.and Genience. Julie W. will be on site for the soil sampling.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-19-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Underground Storage Tank inspection and witness annual monitor system certification and spill bucket testing. The facility has four double-walled tanks (87(2), 91, and Ultrazol Additive) monitored by two Veeder Root TLS-350R panels. Both monitors were operational for audible and visual alarms, panel displays read G All functions normalG . The tanks have double-walled pressurized piping. Positive shutdown and fail-safe programming were verified, visual/audible alarm was verified. The 87 and 91 tanks utilize ATG and ball float for overfill prevention, external audible and visual was observed operational. The additive tank is utilizing a flapper valve and ATG for overfill prevention. Brine filled annulars for the 87 and 91 tanks are monitored by VR-301 sensors, and VR-303 for the additive tank. Fill and piping sumps for the 87 tanks are monitored by VR-100/102/304 sensors, for the 91 tank monitored by VR-100/112/304 sensors, and for the [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-22-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

Eval Notes:	Cold Start Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-22-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-23-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received email from Bill Karras regarding the S30 vacuum sensor on the 91 product B line. Contractors from Wayne Perry, Inc arrived on site 4/19 after the inspection was concluded. They located a jumper hose in dispenser pan 11/12 that was causing the leak and made the necessary repairs. This sensor is now functioning properly. Violation I188 is corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-24-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-25-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Spoke with Don Prescott. The Primary and secondary piping inspection was scheduled for Friday 4-28 and 4-31-17. Also reviewed the SR plan for familiarity due to the original inspector change from M. Sutphin to B. Erdman
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-25-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This is an in-office inspection report to document the submittal of the results from the annual monitoring system certification conducted on 4-4-17 by William Karras of WSK and Sons Inc. The results indicated the following: -All leak detectors passed testing. -All VPH sensors

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

passed testing. -All sump sensor passed testing. -The Lubrizol and gasoline tank Fill and Vapor side spill buckets all passed testing. The comments section on the test results indicated: The Veeder Root 323 sensor in the UDC 15 /16 had duct tape on the bottom holding the tamper plate closed. The sensor was tested with the duct tape on and determined to be operational. The monitoring of UDC 15/16 is consistent with the monitoring plan, but the use of tape is not recommended.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-26-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This Agency has received the following documents: - Monitoring system certification dated 4/19/18 - Spill bucket test report dated 4/19/18 - Partial secondary containment test report dated 4/19/18 Tank components match the facilityG s CERS submission and what was observed on site. All components that were tested, including the spill bucket and line leak detectors passed.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-27-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewing UST E-Package on CERS.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-27-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following documents were received by this Agency: - Monitoring system certification test results dated 4/14/20 - Spill bucket test results 4/20/20 - Overfill prevention test results 4/14/20 All components were tested and passed. The facility utilizes ATG as overfill prevention.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-28-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to witness annual monitor certification and to conduct a routine UST inspection. Met with William Karras of WSK and Sons Inc. William Karras conducted the tank testing, monitor system certification, and spill bucket testing. Mr. Karras ICC, VPM, and Veeder-Root certifications were observed and verified. The facility

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

contains: - (3) 30,000 gallon double walled USTs (87 A, 87 B, and 91) containing gasoline; and - (1) 1,500 gallon double walled UST containing Lubrisol fuel additive. All USTs are continuously monitored by a Veeder-Root TLS-350R system. All USTs and sumps contain brine in the interstitial space. In addition, the vent line box also contains brine. Secondary containment is monitored under constant vacuum. Alarm history and set-up tape was reviewed during this inspection. Facility contains: - Ball float and ATG for overfill protection. The following were tested: - All Sump and UDC sensors initiated positive shutdown to the [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-28-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Erdman was on site to witness the primary piping soap test. I met with Don Prescott the project manager of the construction. The facility had the concrete removed as well as all the dispensers and had the piping exposed. All of the 12 new VPH dispenser sumps were observed holding vacuum. Glycerin gauges were connected to the primary piping had approximately 50 psi on the line. All of the primary piping connections were saturated with soapy water to verify that there were no leaks. All piping connections passed the inspection as no bubbles were observed. The contractor stated that the vapor and vent lines were not completed. We discussed that a return visit would be conducted early Monday morning to observe the soap test on the vent and vapor connections.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-08-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed facility’s CERS HMBEP Submission. All HMBEP submittal elements have been accepted.

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-20-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The CERS UST electronic reporting submission is complete and accepted. The 91 grade fuel UST monitoring plan was updated with the Mag 112 as the STP sump sensor. Also submitted was the Certification of Installation / Modification for the recent modification under Permit SR0129450. The results from the Monitoring System Certification were also reviewed and all components tested received a pass.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

Eval General Type:	Other/Unknown
Eval Date:	06-22-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received notification that the Leak Response Plan has been placed onsite. The following violation has been corrected: - I673: Failure to submit a current UST Response Plan The facility has no outstanding violations.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Coordinates:

Site ID:	108324
Facility Name:	Costco Wholesale #748 (Gas Station)
Env Int Type Code:	HWG
Program ID:	10343356
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.804430
Longitude:	-118.037130

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406

Affiliation Type Desc:	Document Preparer
Entity Name:	John Koning, Agent for Costco Wholesale Corporation
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	Costco Licensing, PO Box 35005
Affiliation City:	Seattle
Affiliation State:	WA
Affiliation Country:	Not reported
Affiliation Zip:	98124-3405
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Costco Wholesale Corporation
Entity Title:	Not reported

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(425) 313-8100
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Dennis Bock
Entity Title:	Compliance Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(425) 427-7653
Affiliation Type Desc:	Legal Owner
Entity Name:	Costco Wholesale Corporation
Entity Title:	Not reported
Affiliation Address:	999 Lake Drive
Affiliation City:	Issaquah
Affiliation State:	WA
Affiliation Country:	United States
Affiliation Zip:	98027
Affiliation Phone:	(425) 313-8100
Affiliation Type Desc:	Parent Corporation
Entity Name:	Costco
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	Costco Wholesale Corp
Entity Title:	Not reported
Affiliation Address:	c/o LISA SIMPSON, LEGAL-LICENSING DEPARTMENT, PO BOX 35005
Affiliation City:	SEATTLE
Affiliation State:	WA
Affiliation Country:	United States
Affiliation Zip:	98124
Affiliation Phone:	(425) 313-8100
Affiliation Type Desc:	Environmental Contact
Entity Name:	Jay Grubb
Entity Title:	Not reported
Affiliation Address:	18215 72nd Avenue South,
Affiliation City:	Kent
Affiliation State:	WA
Affiliation Country:	Not reported
Affiliation Zip:	98032
Affiliation Phone:	Not reported

COSTCO WHOLESALE #748 (GAS STATION) (Continued) **S123499016**

Affiliation Type Desc:	Identification Signer
Entity Name:	John Koning, Agent for Costco Wholesale Corporation
Entity Title:	Regulatory Compliance Specialist, Verisk 3E
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Tank Owner
Entity Name:	Costco Wholesale Corp
Entity Title:	Not reported
Affiliation Address:	c/o LISA SIMPSON, LEGAL-LICENSING DEPARTMENT, PO BOX 35005
Affiliation City:	SEATTLE
Affiliation State:	WA
Affiliation Country:	United States
Affiliation Zip:	98124
Affiliation Phone:	(425) 313-8100

Affiliation Type Desc:	UST Tank Operator
Entity Name:	Costco Wholesale Corp
Entity Title:	Not reported
Affiliation Address:	c/o Tim Hurlocker, 845 Lake Drive
Affiliation City:	ISSAQUAH
Affiliation State:	WA
Affiliation Country:	United States
Affiliation Zip:	98027
Affiliation Phone:	(425) 313-8100

I37 **COSTCO WHOLESALE #748** **UST** **U004004601**
WSW **10901 WALKER ST** **N/A**
< 1/8 **CYPRESS, CA 90630**
0.098 mi.
515 ft. **Site 2 of 2 in cluster I**

Relative:
Lower

Actual:
36 ft.

ORANGE CO. UST:

Name:	COSTCO WHOLESALE #748
Address:	10901 WALKER ST
City,State,Zip:	CYPRESS, CA 90630
Facility ID:	FA0045719
Notes:	Not reported

UST:

Name:	COSTCO WHOLESALE #748 (GAS STATION)
Address:	10901 WALKER ST
City,State,Zip:	CYPRESS, CA 90630
Facility ID:	FA0045719
Permitting Agency:	Orange County Environmental Health
Latitude:	33.80443
Longitude:	-118.03713

F38 **FOCUS DIAGNOSTICS INC** **RCRA NonGen / NLR** **1007569178**
NNE **5785 CORPORATE AVE** **ECHO** **CAR000156836**
< 1/8 **CYPRESS, CA 90630** **HAZNET**
0.102 mi. **HWTS**
539 ft. **Site 3 of 3 in cluster F**

Relative: **Higher**
Actual: **40 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2015-03-17 00:00:00.0
Handler Name:	FOCUS DIAGNOSTICS INC
Handler Address:	5785 CORPORATE AVE
Handler City,State,Zip:	CYPRESS, CA 90630
EPA ID:	CAR000156836
Contact Name:	WILLIAM F MAXFIELD
Contact Address:	33608 ORTEGA HWY
Contact City,State,Zip:	SAN JUAN CAPISTRANO, CA 92690
Contact Telephone:	949-728-4074
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	EHS MGR
EPA Region:	09
Land Type:	Private
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:	33608 ORTEGA HWY
Mailing City,State,Zip:	SAN JUAN CAPISTRANO, CA 92690
Owner Name:	CYPRESS OFFICE PARK AND BUSINESS PNT LLC
Owner Type:	Private
Operator Name:	FOCUS DIAGNOSTICS
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

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

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:	2015-04-01 18:18:35.0
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:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	D022
Waste Description:	CHLOROFORM
Waste Code:	F002
Waste Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F003

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

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.

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CYPRESS OFFICE PARK LLC
Legal Status:	Private
Date Became Current:	2003-04-10 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	SIGNATURE SVCS, 4425 JAMBOREE
Owner/Operator City,State,Zip:	NEWPORT BEACH, CA 92660
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:	CYPRESS OFFICE PARK AND BUSINESS PNT LLC
Legal Status:	Private
Date Became Current:	2003-04-10 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	4425 JAMBOREE
Owner/Operator City,State,Zip:	NEWPORT BEACH, CA 92660
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	FOCUS DIAGNOSTICS
Legal Status:	Private
Date Became Current:	2004-11-01 00:00:00.
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:	CYPRESS OFFICE PARK AND BUSINESS PNT LLC
Legal Status:	Private
Date Became Current:	2003-04-10 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	4425 JAMBOREE
Owner/Operator City,State,Zip:	NEWPORT BEACH, CA 92660
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: FOCUS TECH
Legal Status: Private
Date Became Current: 2000-07-11 00:00:00.
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: Operator
Owner/Operator Name: FOCUS DIAGNOSTICS
Legal Status: Private
Date Became Current: 2004-11-01 00:00:00.
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

Historic Generators:
Receive Date: 2004-09-07 00:00:00.0
Handler Name: FOCUS TECHNOLOGIES
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: 2005-03-03 00:00:00.0
Handler Name: FOCUS DIAGNOSTICS
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: 2015-03-17 00:00:00.0
Handler Name: FOCUS DIAGNOSTICS INC
Federal Waste Generator Description: Not a generator, verified

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

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: 54171
NAICS Description: RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES

NAICS Code: 62151
NAICS Description: MEDICAL AND DIAGNOSTIC LABORATORIES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

ECHO:
Envid: 1007569178
Registry ID: 110018886357
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110018886357
Name: FOCUS DIAGNOSTICS INC
Address: 5785 CORPORATE AVE
City,State,Zip: CYPRESS, CA 90630

HAZNET:
Name: FOCUS DIAGNOSTICS
Address: 5785 CORPORATE AVE
Address 2: Not reported
City,State,Zip: CYPRESS, CA 906300000
Contact: WILLIAM MAXFIELD
Telephone: 9497284074
Mailing Name: Not reported
Mailing Address: 33608 ORTEGA HWY

Year: 2015
Gepaid: CAR000156836
TSD EPA ID: TXD982560294
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: -
Tons: 0.0065

Year: 2015
Gepaid: CAR000156836
TSD EPA ID: TXD982560294
CA Waste Code: 551 - Laboratory waste chemicals
Disposal Method: -

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Tons:	0.06255
Year:	2015
Gepaid:	CAR000156836
TSD EPA ID:	TXD982560294
CA Waste Code:	141 - Off-specification, aged or surplus inorganics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0005
Year:	2015
Gepaid:	CAR000156836
TSD EPA ID:	TXD982560294
CA Waste Code:	791 - Liquids with pH <= 2
Disposal Method:	-
Tons:	0.0195
Year:	2015
Gepaid:	CAR000156836
TSD EPA ID:	CAD008302903
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.3
Year:	2015
Gepaid:	CAR000156836
TSD EPA ID:	CAD008302903
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.15
Year:	2015
Gepaid:	CAR000156836
TSD EPA ID:	TXD982560294
CA Waste Code:	122 - Alkaline solution without metals pH >= 12.5
Disposal Method:	-
Tons:	0.02952
Year:	2015
Gepaid:	CAR000156836
TSD EPA ID:	TXD982560294
CA Waste Code:	141 - Off-specification, aged or surplus inorganics
Disposal Method:	-
Tons:	0.004
Year:	2015
Gepaid:	CAR000156836
TSD EPA ID:	TXD982560294
CA Waste Code:	725 - Liquids with mercury >= 20 Mg./L
Disposal Method:	-
Tons:	0.0005
Year:	2015
Gepaid:	CAR000156836
TSD EPA ID:	TXD982560294
CA Waste Code:	791 - Liquids with pH <= 2
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0095

Click this hyperlink while viewing on your computer to access
86 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2007
Gen EPA ID:	CAR000156836
Shipment Date:	20071129
Creation Date:	3/4/2008 18:30:41
Receipt Date:	20071207
Manifest ID:	000098596VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	D022
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071129
Creation Date:	3/4/2008 18:30:41
Receipt Date:	20071207
Manifest ID:	000098596VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.24
Waste Quantity:	480
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071015
Creation Date:	6/5/2009 10:20:00
Receipt Date:	20071025
Manifest ID:	000202737GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	TRI-STATE MOTOR TRANSIT COMPANY
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D018
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
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:	20071009
Creation Date:	1/25/2008 18:30:20
Receipt Date:	20071022
Manifest ID:	000048325VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	D022
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071009
Creation Date:	1/25/2008 18:30:20
Receipt Date:	20071022
Manifest ID:	000048325VES
Trans EPA ID:	NJD080631369

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070810
Creation Date:	6/5/2009 10:19:39
Receipt Date:	Not reported
Manifest ID:	000201258GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	TRI-STATE MOTOR TRANSIT COMPANY
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D018
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
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:	20070605
Creation Date:	10/18/2007 18:30:31
Receipt Date:	20070608
Manifest ID:	000102621VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.2
Waste Quantity:	400
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:	20070605
Creation Date:	10/18/2007 18:30:31
Receipt Date:	20070608
Manifest ID:	000102621VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	D022
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070419
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000046790VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	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:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070419
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000046790VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2012
Gen EPA ID:	CAR000156836
Shipment Date:	20121227
Creation Date:	4/30/2013 22:15:27
Receipt Date:	20121231
Manifest ID:	001933591GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Additional Code 5:	Not reported
Shipment Date:	20121101
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000452949VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121101
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000452949VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121101
Creation Date:	1/25/2013 22:15:09
Receipt Date:	20121114
Manifest ID:	000452949VES
Trans EPA ID:	NJD080631369

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121101
Creation Date:	1/25/2013 22:15:09
Receipt Date:	20121114
Manifest ID:	000452949VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	P105
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
Additional Code 1:	D003
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121101
Creation Date:	1/25/2013 22:15:09
Receipt Date:	20121114
Manifest ID:	000452949VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121101
Creation Date:	1/25/2013 22:15:09
Receipt Date:	20121114
Manifest ID:	000452949VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	D022
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121101
Creation Date:	5/28/2013 22:15:05
Receipt Date:	20121119
Manifest ID:	000452951VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD000838896
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	D009
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.024
Waste Quantity:	48
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121101
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000452949VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121022
Creation Date:	3/26/2013 22:15:29
Receipt Date:	20121112
Manifest ID:	001933311GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D018
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAR000156836

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Shipment Date:	20131126
Creation Date:	5/12/2016 9:59:35
Receipt Date:	20131209
Manifest ID:	002015147GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
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:	20131028
Creation Date:	12/29/2014 22:14:49
Receipt Date:	Not reported
Manifest ID:	002015067GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	TRI-STATE MOTOR TRANSIT COMPANY
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.2
Waste Quantity:	400
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:	20130805
Creation Date:	12/27/2013 22:15:07
Receipt Date:	20130819
Manifest ID:	002014830GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
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:	20130801
Creation Date:	10/17/2013 22:15:18
Receipt Date:	20130813
Manifest ID:	000580068VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	D022
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130801
Creation Date:	1/7/2014 22:15:14
Receipt Date:	20130819
Manifest ID:	000580076VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD000838896
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	D009
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.025

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Waste Quantity:	50
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:	20130801
Creation Date:	10/17/2013 22:15:18
Receipt Date:	20130813
Manifest ID:	000580068VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03
Waste Quantity:	60
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:	20130801
Creation Date:	10/17/2013 22:15:18
Receipt Date:	20130813
Manifest ID:	000580068VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Shipment Date:	20130801
Creation Date:	10/17/2013 22:15:18
Receipt Date:	20130813
Manifest ID:	000580068VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.2
Waste Quantity:	400
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:	20130801
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000580068VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20130801
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000580068VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

TSDF EPA ID: CAD008302903
Trans Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.005
Waste Quantity: 10
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2006
Gen EPA ID: CAR000156836

Shipment Date: 20061122
Creation Date: 3/30/2007 13:34:23
Receipt Date: 20061130
Manifest ID: 000048124VES
Trans EPA ID: NJD080631369
Trans Name: VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008302903
Trans Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: F003
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons: 0.4
Waste Quantity: 800
Quantity Unit: P
Additional Code 1: D022
Additional Code 2: D001
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20061122
Creation Date: 3/30/2007 13:34:23
Receipt Date: 20061130
Manifest ID: 000048124VES
Trans EPA ID: NJD080631369
Trans Name: VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008302903
Trans Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.2
Waste Quantity:	400
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:	20060807
Creation Date:	10/5/2006 18:30:55
Receipt Date:	20060815
Manifest ID:	24655820
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F003
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.24
Waste Quantity:	480
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:	20060807
Creation Date:	10/5/2006 18:30:55
Receipt Date:	20060815
Manifest ID:	24655820
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060807
Creation Date:	10/5/2006 18:30:55
Receipt Date:	20060815
Manifest ID:	24655820
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060622
Creation Date:	9/8/2006 18:30:23
Receipt Date:	20060630
Manifest ID:	24655640
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.2
Waste Quantity:	400
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:	20060622
Creation Date:	9/8/2006 18:30:23
Receipt Date:	20060630
Manifest ID:	24655640
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	R01 - Recycler
Quantity Tons:	0.2
Waste Quantity:	400
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:	20060417
Creation Date:	8/2/2006 18:30:46
Receipt Date:	Not reported
Manifest ID:	24655356
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.04
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:	20060417
Creation Date:	8/2/2006 18:30:46
Receipt Date:	Not reported
Manifest ID:	24655356
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	- Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Quantity Tons:	0.2
Waste Quantity:	400
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:	20060417
Creation Date:	8/2/2006 18:30:46
Receipt Date:	Not reported
Manifest ID:	24655356
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F003
Meth Code:	- Not reported
Quantity Tons:	0.12
Waste Quantity:	240
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2008
Gen EPA ID:	CAR000156836
Shipment Date:	20081215
Creation Date:	5/11/2009 18:30:37
Receipt Date:	20081229
Manifest ID:	000776483GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D018
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	D001

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081212
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000166125VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	P030
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	D003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081212
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000166125VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	P030
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	D003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081212
Creation Date:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Receipt Date:	Not reported
Manifest ID:	000166125VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20081212
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000166125VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20081212
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000166125VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081212
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000166125VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	P030
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	D003
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081212
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000166125VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081212
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000166125VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081212
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000166125VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Additional Code 5: Not reported

Additional Info:
Year: 2009
Gen EPA ID: CAR000156836

Shipment Date: 20091214
Creation Date: 8/11/2011 14:00:53
Receipt Date: 20091228
Manifest ID: 000957358GBF
Trans EPA ID: CAD066151648
Trans Name: THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: TXD982560294
Trans Name: NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D018
Meth Code: H129 - Other Treatment
Quantity Tons: 0.2
Waste Quantity: 400
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: 20091105
Creation Date: 2/3/2010 18:30:55
Receipt Date: 20091111
Manifest ID: 000312083VES
Trans EPA ID: NJD080631369
Trans Name: VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008302903
Trans Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: D001
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons: 0.2
Waste Quantity: 400
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: 20091105
Creation Date: 2/3/2010 18:30:55
Receipt Date: 20091111

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Manifest ID:	000312083VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0475
Waste Quantity:	95
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20091105
Creation Date:	2/3/2010 18:30:55
Receipt Date:	20091111
Manifest ID:	000312083VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20091105
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000312083VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	P030
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	D003
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091105
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000312083VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091105
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000312083VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091105
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000312083VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.006
Waste Quantity:	12
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:	20091105
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000312083VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	P105
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	D003
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Shipment Date:	20091105
Creation Date:	8/11/2011 14:00:17
Receipt Date:	20091116
Manifest ID:	000957228GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D018
Meth Code:	H129 - Other Treatment
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAR000156836

Shipment Date:	20150213
Creation Date:	8/6/2015 22:15:06
Receipt Date:	20150225
Manifest ID:	002671295GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.0005
Waste Quantity:	1
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:	20150213
Creation Date:	8/6/2015 22:15:06
Receipt Date:	20150225
Manifest ID:	002671300GBF
Trans EPA ID:	CAD066151648

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	- Not reported
Quantity Tons:	0.06255
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150213
Creation Date:	8/6/2015 22:15:06
Receipt Date:	20150225
Manifest ID:	002671300GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0085
Waste Quantity:	17
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:	20150213
Creation Date:	8/6/2015 22:15:06
Receipt Date:	20150225
Manifest ID:	002671293GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0355
Waste Quantity:	71
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:	20150213
Creation Date:	8/6/2015 22:15:06
Receipt Date:	20150225
Manifest ID:	002671293GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
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:	- Not reported
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
Shipment Date:	20150213
Creation Date:	8/6/2015 22:15:06
Receipt Date:	20150225
Manifest ID:	002671293GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	P105
Meth Code:	- Not reported
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150213
Creation Date:	8/6/2015 22:15:06
Receipt Date:	20150225
Manifest ID:	002671293GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	- Not reported
Quantity Tons:	0.0185
Waste Quantity:	37
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:	20150213
Creation Date:	8/6/2015 22:15:06
Receipt Date:	20150225
Manifest ID:	002671294GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004
Waste Quantity:	8
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:	20150213
Creation Date:	8/6/2015 22:15:06
Receipt Date:	20150225
Manifest ID:	002671294GBF
Trans EPA ID:	CAD066151648

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	725 - Liquids with mercury > 20 mg/l
RCRA Code:	D009
Meth Code:	- Not reported
Quantity Tons:	0.0005
Waste Quantity:	1
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:	20150213
Creation Date:	8/6/2015 22:15:06
Receipt Date:	20150225
Manifest ID:	002671294GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAR000156836

Shipment Date:	20051020
Creation Date:	1/4/2007 18:30:12
Receipt Date:	20051027
Manifest ID:	22536655
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	R01 - Recycler
Quantity Tons:	0.2
Waste Quantity:	400
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:	20051020
Creation Date:	1/4/2007 18:30:12
Receipt Date:	20051027
Manifest ID:	22536655
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.2
Waste Quantity:	400
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:	20051020
Creation Date:	1/4/2007 18:30:12
Receipt Date:	20051027
Manifest ID:	22536655
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051020
Creation Date:	1/4/2007 18:30:12
Receipt Date:	20051027
Manifest ID:	22536655
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050906
Creation Date:	12/16/2005 18:31:03
Receipt Date:	20050915
Manifest ID:	22536666
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	R01 - Recycler
Quantity Tons:	0.2
Waste Quantity:	400
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:	20050906
Creation Date:	12/16/2005 18:31:03
Receipt Date:	20050915
Manifest ID:	22536666

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050705
Creation Date:	10/11/2005 18:31:29
Receipt Date:	20050707
Manifest ID:	22536499
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050523
Creation Date:	9/15/2005 18:31:16
Receipt Date:	20050603
Manifest ID:	22536529
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

RCRA Code:	P030
Meth Code:	H01 - Transfer Station
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
Shipment Date:	20050523
Creation Date:	9/15/2005 18:31:16
Receipt Date:	20050603
Manifest ID:	22536529
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050523
Creation Date:	9/15/2005 18:31:16
Receipt Date:	20050603
Manifest ID:	22536529
Trans EPA ID:	NJD080631369
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SVCS LLC
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	R01 - Recycler
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Additional Code 5: Not reported

Additional Info:
Year: 2011
Gen EPA ID: CAR000156836

Shipment Date: 20111114
Creation Date: 6/27/2012 20:30:08
Receipt Date: 20111128
Manifest ID: 001379983GBF
Trans EPA ID: CAD066151648
Trans Name: THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: TXD982560294
Trans Name: NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D018
Meth Code: H129 - Other Treatment
Quantity Tons: 0.2
Waste Quantity: 400
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: 20110916
Creation Date: 12/9/2011 18:30:36
Receipt Date: 20110921
Manifest ID: 000480776VES
Trans EPA ID: NJD080631369
Trans Name: VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008302903
Trans Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: D001
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 0.4
Waste Quantity: 800
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: 20110916
Creation Date: 12/9/2011 18:30:36

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Receipt Date:	20110921
Manifest ID:	000480776VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	D022
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20110915
Creation Date:	4/11/2012 20:30:30
Receipt Date:	20110926
Manifest ID:	001379740GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D018
Meth Code:	H129 - Other Treatment
Quantity Tons:	0.2
Waste Quantity:	400
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:	20110712
Creation Date:	12/15/2011 18:30:29
Receipt Date:	20110718
Manifest ID:	001379542GBF
Trans EPA ID:	CAD066151648
Trans Name:	THOMAS GRAY & ASSOCIATES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD982560294
Trans Name:	NSSI RECOVERY SERVICES INC
TSDF Alt EPA ID:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D018
Meth Code:	H129 - Other Treatment
Quantity Tons:	0.2
Waste Quantity:	400
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:	20110707
Creation Date:	12/20/2011 18:30:15
Receipt Date:	20110725
Manifest ID:	000480740VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD000838896
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.075
Waste Quantity:	150
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:	20110707
Creation Date:	6/24/2012 20:30:07
Receipt Date:	20110713
Manifest ID:	000480741VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110707
Creation Date:	6/24/2012 20:30:07
Receipt Date:	20110713
Manifest ID:	000480741VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110707
Creation Date:	6/24/2012 20:30:07
Receipt Date:	20110713
Manifest ID:	000480741VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110707
Creation Date:	12/20/2011 18:30:15

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Receipt Date:	20110725
Manifest ID:	000480740VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	TXD000838896
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D009
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.042
Waste Quantity:	84
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2014
Gen EPA ID:	CAR000156836
Shipment Date:	20141008
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000889259VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.015
Waste Quantity:	30
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141008
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000889259VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141008
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000889259VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141008
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000889259VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141008
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000889259VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141008
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000889259VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	D001

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141008
Creation Date:	12/26/2014 22:14:59
Receipt Date:	20141020
Manifest ID:	000889259VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141008
Creation Date:	12/26/2014 22:14:59
Receipt Date:	20141020
Manifest ID:	000889259VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141008
Creation Date:	12/26/2014 22:14:59

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Receipt Date:	20141020
Manifest ID:	000889259VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.2
Waste Quantity:	400
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:	20141008
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000889259VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2004
Gen EPA ID:	CAR000156836

Shipment Date:	20041215
Creation Date:	3/13/2007 18:30:42
Receipt Date:	20041220
Manifest ID:	24070117
Trans EPA ID:	CA0000970392

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	TERIS - WEST
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.1815
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20041215
Creation Date:	3/13/2007 18:30:42
Receipt Date:	20041220
Manifest ID:	24070117
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	TERIS - WEST
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20040930
Creation Date:	1/6/2005 18:32:03
Receipt Date:	20041004
Manifest ID:	24068737
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	TERIS - WEST
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Meth Code:	R01 - Recycler
Quantity Tons:	0.099
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040930
Creation Date:	1/6/2005 18:32:03
Receipt Date:	20041004
Manifest ID:	24068737
Trans EPA ID:	CA0000970392
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	TERIS - WEST
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.1815
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2010
Gen EPA ID:	CAR000156836
Shipment Date:	20101105
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000476306VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	NJD080631369
Trans 2 Name:	VEOLIA
TSDF EPA ID:	TXD000838896
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	U214
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Additional 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:	20101105
Creation Date:	1/3/2011 18:31:17
Receipt Date:	20101117
Manifest ID:	000476307VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101105
Creation Date:	1/3/2011 18:31:17
Receipt Date:	20101117
Manifest ID:	000476307VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101105

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Creation Date:	1/3/2011 18:31:17
Receipt Date:	20101117
Manifest ID:	000476307VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F003
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	D022
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20101105
Creation Date:	1/3/2011 18:31:17
Receipt Date:	20101117
Manifest ID:	000476307VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.2
Waste Quantity:	400
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:	20101105
Creation Date:	5/24/2011 18:30:22
Receipt Date:	20101122
Manifest ID:	000476306VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	NJD080631369
Trans 2 Name:	VEOLIA
TSDF EPA ID:	TXD000838896

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	D009
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
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:	20101105
Creation Date:	5/24/2011 18:30:22
Receipt Date:	20101122
Manifest ID:	000476306VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	NJD080631369
Trans 2 Name:	VEOLIA
TSDF EPA ID:	TXD000838896
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.27
Waste Quantity:	540
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:	20101105
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000476306VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	NJD080631369
Trans 2 Name:	VEOLIA
TSDF EPA ID:	TXD000838896
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

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:	20101105
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000476306VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	NJD080631369
Trans 2 Name:	VEOLIA
TSDF EPA ID:	TXD000838896
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101105
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000476306VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	NJD080631369
Trans 2 Name:	VEOLIA
TSDF EPA ID:	TXD000838896
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

FOCUS DIAGNOSTICS INC (Continued) **1007569178**

HWTS:

Name:	FOCUS DIAGNOSTICS
Address:	5785 CORPORATE AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
EPA ID:	CAR000156836
Inactive Date:	03/12/2015
Create Date:	12/30/2004
Last Act Date:	06/29/2015
Mailing Name:	Not reported
Mailing Address:	33608 ORTEGA HWY
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN JUAN CAPISTRANO, CA 926752042
Owner Name:	QUEST DIAGNOSTICS
Owner Address:	3 GIRALDA FARMS
Owner Address 2:	Not reported
Owner City,State,Zip:	MADISON, NJ 07940
Contact Name:	WILLIAM MAXFIELD
Contact Address:	33608 ORTEGA HWY
Contact Address 2:	Not reported
City,State,Zip:	SAN JUAN CAPISTRANO, CA 92690

NAICS:

EPA ID:	CAR000156836
Create Date:	2011-10-26 15:19:37.000
NAICS Code:	621512
NAICS Description:	Diagnostic Imaging Centers
Issued EPA ID Date:	2004-12-30 14:43:03
Inactive Date:	2015-03-12 00:00:00
Facility Name:	FOCUS DIAGNOSTICS
Facility Address:	5785 CORPORATE AVE
Facility Address 2:	Not reported
Facility City:	CYPRESS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	906300000

E39 **JIMMY AUTO IMPORTS** **CERS HAZ WASTE** **S123517415**
NW **10652 WALKER ST** **CERS** **N/A**
< 1/8 **CYPRESS, CA 90630**
0.109 mi.
573 ft. **Site 3 of 4 in cluster E**

Relative:
Higher

Actual:
38 ft.

CERS HAZ WASTE:

Name:	JIMMY AUTO IMPORTS
Address:	10652 WALKER ST
City,State,Zip:	CYPRESS, CA 90630
Site ID:	411567
CERS ID:	10538098
CERS Description:	Hazardous Waste Generator

CERS:

Name:	JIMMY AUTO IMPORTS
Address:	10652 WALKER ST
City,State,Zip:	CYPRESS, CA 90630
Site ID:	411567

JIMMY AUTO IMPORTS (Continued) **S123517415**

CERS ID: 10538098
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 411567
Site Name: JIMMY AUTO IMPORTS
Violation Date: 10-08-2014
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 10/08/2014. All containers used to store hazardous waste must be properly labeled. Labels were cleaned and properly completed. This violation was corrected during this inspection.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 411567
Site Name: JIMMY AUTO IMPORTS
Violation Date: 08-18-2020
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 08/18/2020. OBSERVATION: The labels on the containers of used oil were faded and illegible. CORRECTIVE ACTION: New labels were placed on the containers. Violation corrected.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 411567
Site Name: JIMMY AUTO IMPORTS
Violation Date: 08-18-2020
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: OBSERVATION: Training records were not available for review. CORRECTIVE ACTION: Please provide training records for the Hazardous Materials Business Plan with the following information documented: topic of training, date, employee name, employee signature. Submit documentation to this Agency within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:

JIMMY AUTO IMPORTS (Continued) **S123517415**

Eval General Type:	Other/Unknown
Eval Date:	02-09-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Spoke to Jimmy on this date and answered simple questions for HW.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-10-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP denied.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-04-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	E-Submit Assistance.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-11-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct an annual routine Hazardous Waste Inspection. Met with Masako who explained the process and escorted me through the site. Facility contains: 55 gallon drum of used antifreeze, 55 gallon drum of used oil filters, and 2-55 gallon drums of used oil. Hazardous waste containers are properly labeled and covered. All containers storing hazardous waste must be labeled with the following information: 1. The words G HAZARDOUS WasteG 2. Waste (name) 3. Hazardous property of the waste (e.g. G toxic, flammable, corrosive, etc.) 4. Physical state of the waste (liquid or solid) 5. Name and address of the business. 6. Accumulation date (date the first drop of waste has been placed in container) Documents Available for review: 1. Hazardous waste Manifest/Receipts (keep a copy on site for three years). - Note: A copy of the federal manifest must be sent to DTSC. (Department of Toxic Substances Control, P.O. Box 400, Sacramento, CA 95812-0400). 2. Waste [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-17-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed HMBEP submission package on E-Submit Portal, DENIED. Request for resubmittal this date.
Eval Division:	Orange County Environmental Health

JIMMY AUTO IMPORTS (Continued) **S123517415**

Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-18-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - 4 x 55 gal used oil - 1 x 55 gal waste antifreeze
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-18-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed. Manifests were available and reviewed. Employees are reported to be trained. Emergency plan on site. No hazardous waste or universal waste observed in the dumpster/enclosure area.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-28-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Training Records were received by this Agency. The following violation has been corrected: - I239: 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 The facility has no outstanding violations. REMINDER: - Please re-submit your HMBEP annually between January 1st G March 1st. - Please provide annual training and maintain training records on site
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-31-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Approval. The following documents were received and ACCEPTED on the eSubmit Portal: Business Activities Form Business Owner/Operator Form Chemical Inventory for2 chemicals Facility Site Map
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-08-2014

JIMMY AUTO IMPORTS (Continued) **S123517415**

Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Jimmy Auto Parts 10652 Walker St. Cypress, CA 90630 Attn. Jimmy Minato On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Met with Jimmy Minato, who provided consent to enter and inspect the facility. A walk through of the facility has verified (2) different chemicals above threshold quantities. Used Oil - max volume= 220 gallons Antifreeze - Max volume = 55 gallons To date, the facility has not prepared or submitted a hazardous materials business emergency plan via the Orange County E-Submit portal (See violations I292 above). A username and password were requested during this inspection. Facility has 30-days to submit a hazardous materials business emergency plan on the Orange County e-submit portal. If additional assistance is needed to complete the HMBEP plan, you can attend the free esubmit portal lab every 2nd and 4th Thursday of every month.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-08-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. Met with Jimmy Minato, who gave consent to enter and inspect the facility. Ownership Information was verified and is currrent. Hazardous waste observed on site include: - (4) 55-gallon drums containing waste motor oil, (1) 55-gallon drum containing waste antifreeze, and (1) 55-gallon drum for used oil filters. All containers were properly stored closed. Two containers had labels that were missing required information (See violation I400 above). Hazardous waste manifests were available for review. Perimeter of the facility and the municipal dumpster was inspected. Did not observe any indication of a hazardous waste release or illegal dumping along the perimeter of the facility. The Hazardous Waste Emergency Response information was posted in the facility.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-24-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-24-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	The facility stores the following hazardous wastes at a reportable volume: -Waste oil -Waste antifreeze
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP

JIMMY AUTO IMPORTS (Continued) **S123517415**

Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-02-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The CERS 2017 submittal was reviewed and accepted.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 411567
Facility Name: JIMMY AUTO IMPORTS
Env Int Type Code: HMBP
Program ID: 10538098
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.808000
Longitude: -118.036500

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 10652 WALKER ST
Affiliation City: CYPRESS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90630
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: JIMMY AUTO IMPORTS
Entity Title: Not reported
Affiliation Address: 10652 WALKER ST
Affiliation City: CYPRESS
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90630
Affiliation Phone: (714) 236-2000

Affiliation Type Desc: Environmental Contact
Entity Name: JIMMY MINATO
Entity Title: Not reported
Affiliation Address: 10652 WALKER ST
Affiliation City: cypress
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90630
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: JIMMY MINATO
Entity Title: PRESIDENT
Affiliation Address: Not reported

JIMMY AUTO IMPORTS (Continued) **S123517415**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	JIMMY INTERNATIONAL INC.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 236-2000
Affiliation Type Desc:	Document Preparer
Entity Name:	JIMMY MINATO
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406
Affiliation Type Desc:	Parent Corporation
Entity Name:	JIMMY AUTO IMPORTS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

E40 **JIMMY INT'L DBA JIMMY AUTO IMPORTS** **RCRA NonGen / NLR** **1024797652**
NW **10652 WALKER ST** **CAL000190256**
< 1/8 **CYPRESS, CA 90630**
0.109 mi.
573 ft. **Site 4 of 4 in cluster E**

Relative: **Higher**
Actual: **38 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	1999-07-01 00:00:00.0
Handler Name:	JIMMY INT'L DBA JIMMY AUTO IMPORTS
Handler Address:	10652 WALKER ST
Handler City,State,Zip:	CYPRESS, CA 90630-0000

JIMMY INT'L DBA JIMMY AUTO IMPORTS (Continued) **1024797652**

EPA ID:	CAL000190256
Contact Name:	JIMMY T MINATO
Contact Address:	10652 WALKER ST
Contact City,State,Zip:	CYPRESS, CA 90630
Contact Telephone:	714-236-2000
Contact Fax:	000-000-0000
Contact Email:	INFO@JIMMYAUTO.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:	10652 WALKER ST
Mailing City,State,Zip:	CYPRESS, CA 90630-0000
Owner Name:	JIMMY T MINATO
Owner Type:	Other
Operator Name:	JIMMY T MINATO
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

JIMMY INT'L DBA JIMMY AUTO IMPORTS (Continued) **1024797652**

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:	2018-09-05 15:44:16.0
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:	JIMMY T MINATO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	10652 WALKER ST
Owner/Operator City,State,Zip:	CYPRESS, CA 90630-0000
Owner/Operator Telephone:	714-236-2000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JIMMY T MINATO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	10652 WALKER ST
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-236-2000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1999-07-01 00:00:00.0
Handler Name:	JIMMY INT'L DBA JIMMY AUTO IMPORTS
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

JIMMY INT'L DBA JIMMY AUTO IMPORTS (Continued) **1024797652**

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: 4211
NAICS Description: MOTOR VEHICLE AND MOTOR VEHICLE PARTS AND SUPPLIES WHOLESALERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

H41 **POWERFLO PRODUCTS INC** **RCRA NonGen / NLR** **1024856885**
NNW **5573 MARKET PL** **CAL000421311**
< 1/8 **CYPRESS, CA 90630**
0.122 mi.
645 ft. **Site 5 of 5 in cluster H**

Relative: **Higher**
Actual: **38 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 2016-10-18 00:00:00.0
Handler Name: POWERFLO PRODUCTS INC
Handler Address: 5573 MARKET PL
Handler City,State,Zip: CYPRESS, CA 90630
EPA ID: CAL000421311
Contact Name: COLLEEN FENTON
Contact Address: 5573 MARKET PLACE
Contact City,State,Zip: CYPRESS, CA 90630
Contact Telephone: 714-761-1591
Contact Fax: 714-761-7285
Contact Email: COLLEEN@POWERFLO.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: 5573 MARKET PLACE
Mailing City,State,Zip: CYPRESS, CA 90630-0000
Owner Name: GENE FENTON
Owner Type: Other
Operator Name: COLLEEN FENTON
Operator Type: Other
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No

POWERFLO PRODUCTS INC (Continued) **1024856885**

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:	2018-09-07 19:35:11.0
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:	GENE FENTON
Legal Status:	Other
Date Became Current:	Not reported

POWERFLO PRODUCTS INC (Continued) **1024856885**

Date Ended Current:	Not reported
Owner/Operator Address:	9206 EL COLORADO
Owner/Operator City,State,Zip:	FOUNTAIN VALLEY, CA 92708-0000
Owner/Operator Telephone:	562-607-4794
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	COLLEEN FENTON
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5573 MARKET PLACE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-761-1591
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2016-10-18 00:00:00.0
Handler Name: POWERFLO PRODUCTS 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

J42 **SUREFLO COMPLEX** **CERS HAZ WASTE** **S121678074**
SE **5900 KATELLA AVE** **CIWQS** **N/A**
< 1/8 **CYPRESS, CA 90630** **CERS**
0.123 mi.
649 ft. **Site 1 of 3 in cluster J**

Relative:
Higher

Actual:
38 ft.

CERS HAZ WASTE:

Name:	MITSUBISHI ELECTRIC US INC
Address:	5900 KATELLA AVE STE C
City,State,Zip:	CYPRESS, CA 90630
Site ID:	418845

SUREFLO COMPLEX (Continued) **S121678074**

CERS ID: 10574851
CERS Description: Hazardous Waste Generator

CIWQS:
Name: SUREFLO COMPLEX
Address: 5900 KATELLA AVE
City,State,Zip: CYPRESS, CA 90630
Agency: Warland Investment Co
Agency Address: 1299 Ocean Ave Ste 300, Santa Monica, CA 90401
Place/Project Type: Construction - Commercial, Utility, Industrial
SIC/NAICS: Not reported
Region: 8
Program: CONSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water construction
Order Number: 99-08DW
WDID: 8 30C315252
NPDES Number: CAS000002
Adoption Date: 01/01/1900
Effective Date: 03/14/2001
Termination Date: 02/25/2003
Expiration/Review Date: 01/01/1900
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: 33.802921
Longitude: -118.030653

CERS:
Name: MITSUBISHI ELECTRIC US INC
Address: 5900 KATELLA AVE STE C
City,State,Zip: CYPRESS, CA 90630
Site ID: 418845
CERS ID: 10574851
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 418845
Site Name: MITSUBISHI ELECTRIC US INC
Violation Date: 09-19-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 09/19/2017. The accumulation start date was missing from the 4x55 gallon drums of waste oil. Each container and portable tank holding hazardous waste must be marked with the following information: 1. The words G HAZARDOUS WasteG 2. Waste (name) 3. Hazardous property of the waste (e.g. G toxic, flammable, corrosive, etc.) 4. Physical state of the waste (liquid or solid) 5. Name and address of the business. 6. Accumulation date (date the first

SUREFLO COMPLEX (Continued) **S121678074**

drop of waste has been placed in container) The accumulation start date was updated during this inspection. Violation I400 is corrected.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 418845
Site Name: MITSUBISHI ELECTRIC US INC
Violation Date: 10-24-2014
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 12/23/2014.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 418845
Site Name: MITSUBISHI ELECTRIC US INC
Violation Date: 09-19-2017
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 business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 08/28/2018. The facility has not completed the electronic reporting of the Hazardous Materials Business Emergency Plan in CERS. The HMBEP documents can be electronically submitted by going to the CERS website at http://cers.calepa.ca.gov/ and creating an account. The following HMBEP documents that must be electronically submitted: - Business Activities form - Owner/Operator Identification form - Hazardous Material Chemical Inventory forms - Facility Site Map - Business Emergency Plan Please completed the HMBEP and submit it within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 418845
Site Name: MITSUBISHI ELECTRIC US INC
Violation Date: 09-19-2017
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 08/28/2018. The facility has not submitted the Hazardous Materials Inventory Chemical Description page for Propane and Waste Oil to the CUPA. Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS) within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

SUREFLO COMPLEX (Continued) **S121678074**

Site ID: 418845
Site Name: MITSUBISHI ELECTRIC US INC
Violation Date: 08-28-2018
Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description: Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 09/04/2018.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 418845
Site Name: MITSUBISHI ELECTRIC US INC
Violation Date: 10-24-2014
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 12/23/2014.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 418845
Site Name: MITSUBISHI ELECTRIC US INC
Violation Date: 08-20-2014
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 10/19/2014. The HMBEP must be prepared and submitted within 30 days from receipt of this report. Please go to www.esubmit.ocgov.com and request a username and password. Once your credentials are received, log in, complete, and submit all necessary information within 30 days from receipt of this report.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 07-13-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Your facility was cited violations I292 and I169 on 8/10/17 for not submitting a Hazardous Materials Disclosure & Business Emergency Plan (HMBEP) to California Environmental Reporting System (CERS). As of this date there is no HMBEP submitted to CERS, violations I292 and I169 remain outstanding. Go to https://cersbusiness2.calepa.ca.gov/Account/SignIn?ReturnUrl=%2f and create an account. Once you are able to access your account after verifying by email, click "add new facility", enter your facility details, and once done click "start" to being working on your HMBEP.

SUREFLO COMPLEX (Continued) **S121678074**

	The HMBEP is composed of three different sections: 1) Facility Information, 2) Hazardous Materials Inventory, 3) Emergency Response and Training Plans. Complete each section and submit within 30 days. Here is some additional information to help. For Section 1) Facility Info, for your Business Activities, check yes for Hazardous Materials and yes for Hazardous Waste Generator. For Section 2) Hazmat [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-20-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. Met with facility manager Al Schuyler, who gave consent to enter and inspect the facility. Hazardous waste observed on site include: - (4) 55-gallon drums containing used oil and (1) 55-gallon drum containing waste solids. All containers were labeled and properly closed. Hazardous waste manifests for all hazardous waste streams were available for review. Perimeter of the facility and the municipal dumpster was inspected. Did not observe any indication of a hazardous waste release or illegal dumping along the perimeter of the facility. The Hazardous Waste Emergency Response information was posted within the facility.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-20-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Met with facility manager Al Schuyler, who provided consent to enter and inspect the facility. A walk through of the facility has verified (2) chemicals above threshold quantities. Used Oil - max volume= 220 gallons Propane - Max volume = (8) 5-gallon tanks = 1,364 cubic feet. To date, the facility has not prepared or submitted a hazardous materials business emergency plan via the Orange County E-Submit portal (See violations I292 above). Visit www.esubmit.ocgov.com and request a username and password. Once your credentials are received, log in and complete the HMBEP. Facility has 30-days to submit a hazardous materials business emergency plan on the Orange County e-submit portal.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-28-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Hazardous Waste inspection. No hazardous waste violations were observed during this inspection. A copy of this inspection report was sent to Aldo Murillo at

SUREFLO COMPLEX (Continued) **S121678074**

aldo.murillo@meus.mea.com.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-28-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Disclosure and Business Emergency Plan (HMBP) inspection. The facility has the following hazardous materials on site in quantities that meet disclosure thresholds: - Propane, 7 (13) gallon cylinders - Waste hydraulic oil, 55 (2) gallon drums The facility had recently submitted their HMBP on California Environmental Reporting System (CERS) when it was observed that one submittal for 3 buildings on the same campus was being done. Buildings A and B do not store hazardous materials over disclosure thresholds. I worked with Aldo on editing the CERS submittal to change the submittal from Building A, to Building C. Together we completed the Facility Information and Emergency Response and Training Plan and Hazmat Inventory portions of the submittal. The site map was discussed. Violations I169 and I292 for failure to submit an HMBP cited on 8/10/17 have been corrected and violation I208 is being cited. Please finish and [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-04-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS ID 10574851 HMBP submittal dated 8/30/18 was reviewed. Facility Information, Hazmat Inventory, Site Map, and Emergency Response and Training Plans have been accepted. Violation I208 is corrected.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-19-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Consent to inspect and take photos was provided by Aldo Murillo. A walk through of the facility was conducted. The following Hazardous Substances were observed being stored at above the reporting threshold: HM - Propane HW - Waste Oil This facility is responsible for identifying all hazardous materials and hazardous wastes, which are above the following disclosure thresholds: Solids > 500 pounds. Liquids > or = 55 gallons Gas > or = 200 cubic feet The facility has not completed or submitted the Hazardous Materials Business Emergency Plan including the Hazardous Materials Inventory in CERS a thttp://cers.calepa.ca.gov/ (see violations). Please submit the HMBEP in CERS within 30 days. Site map is available for review. Employee training is completed.
Eval Division: Orange County Environmental Health

SUREFLO COMPLEX (Continued) **S121678074**

Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-19-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. Consent to inspect and take photos at the facility was provided by Aldo Murillo. The accumulation start date was missing from the 4 x55 gallon drums of waste oil in the warehouse (see violation). The accumulation start dated was posted on the labels during this inspection. Violation I400 was corrected. The used oily rags are sent out as non hazardous on a bill of lading. Municipal dumpster area does not contain any hazardous waste. The perimeter of the facility was also inspected; no signs of releases were noted. Emergency Response Information was complete. Hazardous waste containers were properly covered. Reviewed manifests, bills of lading and consolidated manifests for all hazardous waste streams. For further information about Hazardous Waste management, please refer to the Orange County CUPA website at www.occupainfo.com and open the PDF G Hazardous Waste the BasicsG .
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-24-2014
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Orange County Environmental Health as the Certified Unified Program Agency (OC CUPA) is the administrating agency for the Hazardous Materials Disclosure and Business Emergency Plan programs (HMD/BEP) previously administered by the Orange County Fire Authority. During the months of August and December of 2013, the OC CUPA sent out letters to regulated businesses requesting them to electronically submit their HMD/BEP forms. Electronic submission of these forms is a legal requirement. Failure to submit HMD/BEP forms is in violation of the California Health & Safety Code Chapter 6.95. According to our records there is no electronic submission for this facility. Please go to www.esubmit.ocgov.com to request a username and password and submit your HMD/BEP forms within the next 30 days. Businesses may also submit forms via the California Environmental Reporting System. Please verify that all owner information that is prepopulated on the E-Submit Portal is still [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-26-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBEP Denied.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

SUREFLO COMPLEX (Continued) **S121678074**

Eval General Type: Other/Unknown
Eval Date: 12-27-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: A review of the CERS website was conducted today for the submission of the Hazardous Materials Business Emergency Plan in CERS. THe facility has not submitted the HMBEP in CERS. The facility has outstanding violations I292 and I169 regarding the non-submittal of Hazardous Materials Business Emergency Plan and the non-disclosure of the Hazardous Materials Inventory in CERS of the following: -Waste oil -Propane The HMBEP documents can be electronically submitted by going to the CERS website at http://cers.calepa.ca.gov/ The following HMBEP documents that must be electronically submitted: - Business Activities form - Owner/Operator Identification form - Hazardous Material Chemical Inventory - Facility Site Map - Business Emergency Plan Please completed the HMBEP in CERS immediately. Failure to comply may result in further enforcement activity. A voice mail message was left with the Faciliity Supervisor Victor Ayala (714-236-6421) Please me at [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6406

Affiliation Type Desc: Identification Signer
Entity Name: Aldo A. Murillo
Entity Title: Sr. Field Engineer & Warehouse Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Aldo A. Murillo
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (714) 308-6379

Affiliation Type Desc: Environmental Contact
Entity Name: Aldo A. Murillo
Entity Title: Not reported

SUREFLO COMPLEX (Continued) **S121678074**

Affiliation Address:	5900 Katella Ave Ste C
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	5900 Katella Ave Ste C
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Mitsubishi Electric US, Inc.
Entity Title:	Not reported
Affiliation Address:	5900 Katella Ave Ste C
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(714) 220-2500
Affiliation Type Desc:	Document Preparer
Entity Name:	Aldo A. Murillo
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	MITSUBISHI ELECTRIC US INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

J43 **SIMPLE GLOBAL** **RCRA NonGen / NLR** **1025838289**
SE **5900 KATELLA AVE, SUITE 100** **CAC003017885**
< 1/8 **CYPRESS, CA 90630**
0.123 mi.
649 ft. **Site 2 of 3 in cluster J**

Relative: **Higher**
Actual: **38 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2019-06-03 00:00:00.0
Handler Name:	SIMPLE GLOBAL	
Handler Address:		5900 KATELLA AVE, SUITE 100
Handler City,State,Zip:		CYPRESS, CA 90630
EPA ID:		CAC003017885
Contact Name:		JAIME CHAUDOIN
Contact Address:		5900 KATELLA AVE
Contact City,State,Zip:		CYPRESS, CA 90630
Contact Telephone:		188-894-8806
Contact Fax:		Not reported
Contact Email:		JAIME@SIMPLEGLOBAL.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:		5900 KATELLA AVE, SUITE 100
Mailing City,State,Zip:		CYPRESS, CA 90630
Owner Name:		SIMPLE GLOBAL
Owner Type:		Other
Operator Name:		JAIME CHAUDOIN
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

SIMPLE GLOBAL (Continued) **1025838289**

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:	2019-06-27 14:19:24.0
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:	JAIME CHAUDOIN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5900 KATELLA AVE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	188-894-8806
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SIMPLE GLOBAL
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5900 KATELLA AVE, SUITE 100
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	188-894-8806
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

SIMPLE GLOBAL (Continued) **1025838289**

Historic Generators:
- Receive Date: 2019-06-03 00:00:00.0
- Handler Name: SIMPLE GLOBAL
- 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

J44 **MITSUBISHI ELECTRIC US, INC** **RCRA NonGen / NLR** **1024835035**
SE **5900 KATELLA AVE STE C** **CAL000376457**
< 1/8 **CYPRESS, CA 90630**
0.123 mi.
649 ft. **Site 3 of 3 in cluster J**

Relative: **Higher**
Actual: **38 ft.**

RCRA NonGen / NLR:
- Date Form Received by Agency: 2012-07-19 00:00:00.0
- Handler Name: MITSUBISHI ELECTRIC US, INC
- Handler Address: 5900 KATELLA AVE STE C
- Handler City,State,Zip: CYPRESS, CA 90630-5019
- EPA ID: CAL000376457
- Contact Name: ALDO A. MURILLO
- Contact Address: 5900 KATELLA AVE STE C
- Contact City,State,Zip: CYPRESS, CA 90630
- Contact Telephone: 714-220-4763
- Contact Fax: Not reported
- Contact Email: ALDO.MURILLO@MEUS.MEA.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: 5900 KATELLA AVE STE A
- Mailing City,State,Zip: CYPRESS, CA 90630-5019
- Owner Name: MITSUBISHI ELEC & ELEC USA INC

MITSUBISHI ELECTRIC US, INC (Continued) **1024835035**

Owner Type:	Other
Operator Name:	ALDO A. MURILLO
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:	2018-09-06 17:01:05.0
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

MITSUBISHI ELECTRIC US, INC (Continued) **1024835035**

Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MITSUBISHI ELEC & ELEC USA INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5900 KATELLA AVE STE A
Owner/Operator City,State,Zip:	CYPRESS, CA 90630-5019
Owner/Operator Telephone:	714-220-4754
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ALDO A. MURILLO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5900 KATELLA AVE STE C
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-220-4763
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2012-07-19 00:00:00.0
Handler Name:	MITSUBISHI ELECTRIC US, 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:	23595
NAICS Description:	BUILDING EQUIPMENT AND OTHER MACHINERY INSTALLATION CONTRACTORS

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

K45 **5560 KETTELLA AVE** **CERS HAZ WASTE** **S121616989**
SW **5560 KATELLA AVE** **CIWQS** **N/A**
1/8-1/4 **CYPRESS, CA 90630** **CERS**
0.127 mi.
671 ft. **Site 1 of 2 in cluster K**

Relative: **Lower**
Actual: **35 ft.**

CERS HAZ WASTE:

Name:	G E S EXPOSITION SERVICES INC
Address:	5560 KATELLA AVE STE A
City,State,Zip:	CYPRESS, CA 90630
Site ID:	411327
CERS ID:	10550983
CERS Description:	Hazardous Waste Generator

CIWQS:

Name:	5560 KETTELLA AVE
Address:	5560 KATELLA AVE
City,State,Zip:	CYPRESS, CA 90630
Agency:	Warland Investment Co
Agency Address:	1299 Ocean Ave Ste 300, Santa Monica, CA 90401
Place/Project Type:	Construction - Commercial
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	99-08DW
WDID:	8 30C307851
NPDES Number:	CAS000002
Adoption Date:	01/01/1900
Effective Date:	09/09/1997
Termination Date:	03/11/1999
Expiration/Review Date:	01/01/1900
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:	33.802939
Longitude:	-118.036233

CERS:

Name:	G E S EXPOSITION SERVICES INC
Address:	5560 KATELLA AVE STE A
City,State,Zip:	CYPRESS, CA 90630
Site ID:	411327
CERS ID:	10550983
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	411327
Site Name:	G E S EXPOSITION SERVICES INC
Violation Date:	10-24-2014
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.

5560 KETTELLA AVE (Continued) **S121616989**

Violation Notes:	Returned to compliance on 12/23/2014.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	411327
Site Name:	G E S EXPOSITION SERVICES INC
Violation Date:	09-13-2017
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 09/26/2017. The facility has not submitted the Hazardous Materials Inventory Chemical Description page for the waste ink to the Hazardous Materials Inventory in CERS. Also, you must remove the Argon / CO2 and Argon / Helium gases from the inventory as the volume stored onsite is below the reportable volume. Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS) withing 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	411327
Site Name:	G E S EXPOSITION SERVICES INC
Violation Date:	06-01-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to 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 06/13/2017. Add the following disclosable chemicals observed during this inspection: Propane - approx. 1,760 gallons Diesel - 142 gallons Oxygen - 825 cuft Acetylene - 262 cuft Argon/CO2 - 275 cu ft Argon/Helium - 550 cuft Lead acid batteries (sulfuric Acid Electrolyte) ? Paint - 55 gallons
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	411327
Site Name:	G E S EXPOSITION SERVICES INC
Violation Date:	10-24-2014
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 12/23/2014.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	411327
Site Name:	G E S EXPOSITION SERVICES INC

5560 KETTELLA AVE (Continued) **S121616989**

Violation Date: 06-01-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 06/13/2017. Map did not provide locations of all hazardous materials. Add this element and resubmit map to abate this violation.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 04-06-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBEP DEclined due to business activities and chemical disclosure page.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-01-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Disclosure Business Emergency Plan (HMBEP) inspection. Met with Manager TGregg O'Rear of GES. Consent was provided to enter and conduct inspection activities. GES has submitted the HMBEP into the Esubmit database. The 2016 HMBEP has been declined. The following were verified: - Chemical Disclosure was not accurate (see violation I169 above) - Contingency plan/BEP. Facility map was inaccurate (see violation I632 above), and; - Training program. Please note that if the facility decides to discontinue any of the above chemicals, proper disposal or removal of chemicals is required and maintenance of disposal records will be verified. Within 30 days of removal, contact this agency to verify that the hazardous material is no longer stored on site and remove it from the facility's listed disclosable chemicals.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-20-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: For your chemical G AcetyleneG please add the CAS# 74-86-2. For your chemical G Argon/CO2G please change the hazardous material type to mixture and add Argon CAS# 7440-37-1 to the components section and add Carbon Dioxide CAS# 124-38-9. Also, please add the percent weight for each mixture. For your chemical G Argon/HeliumG please change the hazardous material type to mixture and add Argon CAS# 7440-37-1 to the components section and add Helium CAS# 7440-59-7. Also, please add the percent weight for each mixture. For your chemical G DieselG please add the CAS# 68476-34-6. For your chemical G Lead/Acid BatteriesG

5560 KETTELLA AVE (Continued) **S121616989**

please change the physical state to liquid and please change to a mixture and please add Sulfuric Acid CAS# 7664-93-9 to your mixture components with the percent weight. And mark the box EHS next to component one. For your chemical G oxygenG please add the CAS# 7782-44-7. For your chemical G Paint thinner, solventG please change the days on-site to [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-08-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Please completely remove your chemical G Paint thinner, solventG from your chemical inventory. If you have any questions please contact me at anesbit@ochca.com or 71-640-4249. Thank you
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-14-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following documents were received and ACCEPTED on the eSubmit Portal: Business Activities Form Business Owner/Operator Form Chemical Inventory for 8 Facility site Map
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-21-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. Met with facility operator Chip Rennie, who gave consent to enter and inspect the facility. Hazardous waste observed on site include: - Waste paint, waste rags containing solvent, waste solids containing paint, and universal waste including ballasts and fluorescent light tubes. All containers were labeled and properly closed. Hazardous waste manifests for all hazardous waste streams were available for review. Perimeter of the facility and the municipal dumpster was inspected. Did not observe any indication of a hazardous waste release or illegal dumping along the perimeter of the facility. The Hazardous Waste Emergency Response information was posted in the facility.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-13-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. Consent to inspect and take photos at the facility was provided by the Bill

5560 KETTELLA AVE (Continued) **S121616989**

Kindig. The facility no longer generates an Immersion cleaner waste, Brake Cleaner waste and waste aerosol cans for disposal. Municipal dumpster area does not contain any hazardous waste. The perimeter of the facility was also inspected; no signs of releases were noted. Emergency Response Informational Sticker was complete. Hazardous waste containers were properly labeled and covered. Reviewed manifests, bills of lading and consolidated manifests for all hazardous waste streams. For further information about Hazardous Waste management, please refer to the Orange County CUPA website at www.occupainfo.com and open the PDF G Hazardous Waste the BasicsG . No hazardous waste violations noted today.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-13-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Consent to inspect and take photos was provided by Bill Kindig. A walk through of the facility was conducted. The following Hazardous Substances were observed being stored at above the reporting threshold: HM - Acetylene - Diesel - Lead Acid Batteries - Oxygen - Propane - Latex paint HW -Waste Ink (see violation) please add to HM Inventory This facility is responsible for identifying all hazardous materials and hazardous wastes, which are above the following disclosure thresholds: Solids > 500 pounds. Liquids > or = 55 gallons Gas > or = 200 cubic feet Site map is available for review. Employee training is conducted. Ensure the HMBEP is resubmitted by March 1st every year.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-26-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed the facility's CERS HMBEP Submission. Facility has made required changes to their Business Activities, Hazmat Inventory, and Site Map. ER/Contingency Plan accepted, left a comment for the plan to be updated. HMBEP accepted - violation corrected.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-24-2014
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Orange County Environmental Health as the Certified Unified Program Agency (OC CUPA) is the administrating agency for the Hazardous Materials Disclosure and Business Emergency Plan programs (HMD/BEP) previously administered by the Orange County Fire Authority. During the months of August and December of 2013, the OC CUPA sent out letters to regulated businesses requesting them to electronically

5560 KETTELLA AVE (Continued) **S121616989**

submit their HMD/BEP forms. Electronic submission of these forms is a legal requirement. Failure to submit HMD/BEP forms is in violation of the California Health & Safety Code Chapter 6.95. According to our records there is no electronic submission for this facility. Please go to www.esubmit.ocgov.com to request a username and password and submit your HMD/BEP forms within the next 30 days. Businesses may also submit forms via the California Environmental Reporting System. Please verify that all owner information that is prepopulated on the E-Submit Portal is still [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Affiliation:

Affiliation Type Desc: Identification Signer
Entity Name: Bill Kindig
Entity Title: West Regional Director of Operations
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6406

Affiliation Type Desc: Document Preparer
Entity Name: Bill Kindig
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Bill Kindig
Entity Title: Not reported
Affiliation Address: 5560 Katella Ave
Affiliation City: Cypress
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90630
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: G E S EXPOSITION SERVICES INC
Entity Title: Not reported

5560 KETTELLA AVE (Continued) **S121616989**

Affiliation Address:	5560 KATELLA AVE STE A
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(562) 356-3700
Affiliation Type Desc:	Operator
Entity Name:	Bill Kindig
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:	(562) 356-3702
Affiliation Type Desc:	Parent Corporation
Entity Name:	GLOBAL EXPERIENCE SPECIALIST
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	5560 KATELLA AVE STE A
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported

K46 **GLOBAL EXPERIENCE SPECIALIST** **RCRA NonGen / NLR** **1024809809**
SW **5560 KATELLA AVE** **CAL000286674**
1/8-1/4 **CYPRESS, CA 90630**
0.127 mi.
671 ft. **Site 2 of 2 in cluster K**

Relative: RCRA NonGen / NLR:
Lower

Date Form Received by Agency:	2004-09-22 00:00:00.0
Handler Name:	GLOBAL EXPERIENCE SPECIALIST
Handler Address:	5560 KATELLA AVE
Handler City,State,Zip:	CYPRESS, CA 90630
EPA ID:	CAL000286674
Contact Name:	BILL KINDIG
Contact Address:	5560 KATELLA AVE
Contact City,State,Zip:	CYPRESS, CA 90630
Contact Telephone:	562-356-3702
Contact Fax:	562-370-1698
Contact Email:	BKINDIG@GES.COM
Contact Title:	Not reported
EPA Region:	09

Actual:
35 ft.

GLOBAL EXPERIENCE SPECIALIST (Continued) **1024809809**

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:	5560 KATELLA AVE
Mailing City,State,Zip:	CYPRESS, CA 90630-0000
Owner Name:	GLOBAL EXPERIENCE SPECIALIST
Owner Type:	Other
Operator Name:	BILL KINDIG
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

GLOBAL EXPERIENCE SPECIALIST (Continued) **1024809809**

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:	2018-09-05 20:26:02.0
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:	BILL KINDIG
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5560 KATELLA AVE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	562-356-3702
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GLOBAL EXPERIENCE SPECIALIST
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	950 GRIER DR
Owner/Operator City,State,Zip:	LAS VEGAS, NV 89119-0000
Owner/Operator Telephone:	702-263-1500
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2004-09-22 00:00:00.0
Handler Name:	GLOBAL EXPERIENCE SPECIALIST
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:	71399
NAICS Description:	ALL OTHER AMUSEMENT AND RECREATION INDUSTRIES

GLOBAL EXPERIENCE SPECIALIST (Continued) **1024809809**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

L47
South
1/8-1/4
0.131 mi.
690 ft.
Site 1 of 2 in cluster L

Relative:
Lower

Actual:
37 ft.

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC.
5730 KATELLA AVENUE
CYPRESS, CA 90630

ENVIROSTOR
CERS HAZ WASTE
HAZNET
NPDES
CIWQS
CERS
HWTS

S121666303
N/A

ENVIROSTOR:

Name:	ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC.
Address:	5730 KATELLA AVENUE
City,State,Zip:	CYPRESS, CA 90630
Facility ID:	60002729
Status:	Active
Status Date:	09/17/2018
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	0.5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Irena Edwards
Supervisor:	Eileen Mananian
Division Branch:	Cleanup Cypress
Assembly:	65
Senate:	29
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	33.80224
Longitude:	-118.0334
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	60002729
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	09/17/2018
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS HAZ WASTE:
Name: ROLLS-ROYCE HIGH TEMPERATURE COMPOSITES (KATELLA)
Address: 5730 KATELLA AVE
City,State,Zip: CYPRESS, CA 90630
Site ID: 370342
CERS ID: 10664809
CERS Description: Hazardous Waste Onsite Treatment

Name: ROLLS-ROYCE HIGH TEMPERATURE COMPOSITES (KATELLA)
Address: 5730 KATELLA AVE
City,State,Zip: CYPRESS, CA 90630
Site ID: 370342
CERS ID: 10664809
CERS Description: Hazardous Waste Generator

HAZNET:
Name: ROLLS-ROYCE HIGH TEMPERATURE COMPOSITES
Address: 5730 KATELLA AVE
Address 2: Not reported
City,State,Zip: CYPRESS, CA 906300000
Contact: ROBERT HAYS
Telephone: 6573376542
Mailing Name: Not reported
Mailing Address: 5730 KATELLA AVENUE

Year: 2019
Gepaid: CAL000415727
TSD EPA ID: AZD081705402
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.62000

Year: 2019
Gepaid: CAL000415727
TSD EPA ID: OHD980613541
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 1.14200

Year: 2019
Gepaid: CAL000415727
TSD EPA ID: ARD981057870
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.62250

Year: 2019

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

Gepaid:	CAL000415727
TSD EPA ID:	AZD081705402
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.06000
Year:	2019
Gepaid:	CAL000415727
TSD EPA ID:	AZD081705402
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:	5.29400
Year:	2019
Gepaid:	CAL000415727
TSD EPA ID:	AZD081705402
CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.11250
Year:	2019
Gepaid:	CAL000415727
TSD EPA ID:	AZD081705402
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:	0.12850
Year:	2019
Gepaid:	CAL000415727
TSD EPA ID:	OHD980613541
CA Waste Code:	352 - Other organic solids
Disposal Method:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	1.55000
Year:	2019
Gepaid:	CAL000415727
TSD EPA ID:	CAD044429835
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:	0.18000
Year:	2019
Gepaid:	CAL000415727
TSD EPA ID:	AZD081705402
CA Waste Code:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.33500

Click this hyperlink while viewing on your computer to access
14 additional CA HAZNET: record(s) in the EDR Site Report.

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

Additional Info:

Year:	2017
Gen EPA ID:	CAL000415727
Shipment Date:	20171221
Creation Date:	10/29/2018 18:30:14
Receipt Date:	20180104
Manifest ID:	000785417WAS
Trans EPA ID:	IND058484114
Trans Name:	HERITAGE TRANSPORT LLC-TS SIGNAL HILL
Trans 2 EPA ID:	AZR000516211
Trans 2 Name:	SALT RIVER EXTRACTION
TSDF EPA ID:	AZD081705402
Trans Name:	HERITAGE ENVIRONMENTAL SERVICES
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:	1.274
Waste Quantity:	2548
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171221
Creation Date:	10/29/2018 18:30:14
Receipt Date:	20180104
Manifest ID:	000785417WAS
Trans EPA ID:	IND058484114
Trans Name:	HERITAGE TRANSPORT LLC-TS SIGNAL HILL
Trans 2 EPA ID:	AZR000516211
Trans 2 Name:	SALT RIVER EXTRACTION
TSDF EPA ID:	AZD081705402
Trans Name:	HERITAGE ENVIRONMENTAL SERVICES
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:	0.433
Waste Quantity:	866
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171221
Creation Date:	10/29/2018 18:30:14
Receipt Date:	20180104

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

Manifest ID:	000785417WAS
Trans EPA ID:	IND058484114
Trans Name:	HERITAGE TRANSPORT LLC-TS SIGNAL HILL
Trans 2 EPA ID:	AZR000516211
Trans 2 Name:	SALT RIVER EXTRACTION
TSDF EPA ID:	AZD081705402
Trans Name:	HERITAGE ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.164
Waste Quantity:	328
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20171221
Creation Date:	10/29/2018 18:30:14
Receipt Date:	20180104
Manifest ID:	000785417WAS
Trans EPA ID:	IND058484114
Trans Name:	HERITAGE TRANSPORT LLC-TS SIGNAL HILL
Trans 2 EPA ID:	AZR000516211
Trans 2 Name:	SALT RIVER EXTRACTION
TSDF EPA ID:	AZD081705402
Trans Name:	HERITAGE ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0175
Waste Quantity:	35
Quantity Unit:	P
Additional Code 1:	D035
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20171221
Creation Date:	8/3/2018 18:30:48
Receipt Date:	20171229
Manifest ID:	000785418WAS
Trans EPA ID:	IND058484114
Trans Name:	HERITAGE TRANSPORT LLC-TS SIGNAL HILL
Trans 2 EPA ID:	AZR000516211
Trans 2 Name:	SALT - RIVER EXTRACTION
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

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:	0.356
Waste Quantity:	712
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:	20171114
Creation Date:	7/20/2018 18:30:15
Receipt Date:	20171129
Manifest ID:	000785281WAS
Trans EPA ID:	IND058484114
Trans Name:	HERITAGE TRANSPORT LLC-TS SIGNAL HILL
Trans 2 EPA ID:	AZR000516211
Trans 2 Name:	SALT RIVER EXTRACTION
TSDF EPA ID:	AZD081705402
Trans Name:	HERITAGE ENVIRONMENTAL SERVICES
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:	0.7665
Waste Quantity:	1533
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:	20171114
Creation Date:	6/13/2018 18:31:23
Receipt Date:	20171117
Manifest ID:	000785282WAS
Trans EPA ID:	IND058484114
Trans Name:	HERITAGE TRANSPORT LLC-TS SIGNAL HILL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	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:	0.165

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

Waste Quantity:	330
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:	20171114
Creation Date:	7/20/2018 18:30:15
Receipt Date:	20171129
Manifest ID:	000785281WAS
Trans EPA ID:	IND058484114
Trans Name:	HERITAGE TRANSPORT LLC-TS SIGNAL HILL
Trans 2 EPA ID:	AZR000516211
Trans 2 Name:	SALT RIVER EXTRACTION
TSDF EPA ID:	AZD081705402
Trans Name:	HERITAGE ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0795
Waste Quantity:	159
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:	20171019
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000785188WAS
Trans EPA ID:	IND058484114
Trans Name:	HERITAGE TRANSPORT LLC-TS SIGNAL HILL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD081705402
Trans Name:	HERITAGE ENVIRONMENTAL SERVICES
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:	0.016
Waste Quantity:	32
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

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

Shipment Date:	20171019
Creation Date:	10/5/2018 18:30:23
Receipt Date:	20171031
Manifest ID:	000785188WAS
Trans EPA ID:	IND058484114
Trans Name:	HERITAGE TRANSPORT LLC-TS SIGNAL HILL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD081705402
Trans Name:	HERITAGE ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1555
Waste Quantity:	311
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

NPDES:

Name:	ROLLS ROYCE HIGH TEMPERATURE COMPOSITES
Address:	5730 KATELLA AVE
City,State,Zip:	CYPRESS, CA 90630
Facility Status:	Active
NPDES Number:	CAS000001
Region:	8
Agency Number:	0
Regulatory Measure ID:	506940
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	8 30NEC005036
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/25/2019
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	5730 Katella Ave
Discharge Name:	ROLLS ROYCE High Temperature Composites
Discharge City:	Cypress
Discharge State:	California
Discharge Zip:	90630
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

Name:	ROLLS ROYCE HIGH TEMPERATURE COMPOSITES

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

Address:	5730 KATELLA AVE
City,State,Zip:	CYPRESS, CA 90630
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:	8 30NEC005036
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:	Active
Status Date:	03/25/2019
Operator Name:	ROLLS ROYCE High Temperature Composites
Operator Address:	5730 Katella Ave
Operator City:	Cypress
Operator State:	California
Operator Zip:	90630

CIWQS:

Name:	ROLLS ROYCE HIGH TEMPERATURE COMPOSITES
Address:	5730 KATELLA AVE
City,State,Zip:	CYPRESS, CA 90630
Agency:	ROLLS ROYCE High Temperature Composites
Agency Address:	5730 Katella Ave, Cypress, CA 90630
Place/Project Type:	Industrial - Nonmetallic Mineral Products, NEC
SIC/NAICS:	3299(+)
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 30NEC005036
NPDES Number:	CAS000001
Adoption Date:	01/01/1900
Effective Date:	03/25/2019
Termination Date:	01/01/1900
Expiration/Review Date:	01/01/1900
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:	33.80227
Longitude:	-118.03343

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

Name:	R & D BLDG PARCEL 7
Address:	5730 KATELLA AVE
City,State,Zip:	CYPRESS, CA 90630
Agency:	Warland Investment Co
Agency Address:	1299 Ocean Ave Ste 300, Santa Monica, CA 90401
Place/Project Type:	Construction - Commercial, Utility, Industrial
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	99-08DW
WDID:	8 30C315253
NPDES Number:	CAS000002
Adoption Date:	01/01/1900
Effective Date:	03/14/2001
Termination Date:	01/15/2002
Expiration/Review Date:	01/01/1900
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:	33.802917
Longitude:	-118.033351

CERS:

Name:	ROLLS ROYCE HIGH TEMPERATURE COMPOSITES
Address:	5730 KATELLA AVE
City,State,Zip:	CYPRESS, CA 90630
Site ID:	541159
CERS ID:	871204
CERS Description:	Industrial Facility Storm Water

Affiliation:

Affiliation Type Desc:	Owner/Operator
Entity Name:	ROLLS ROYCE High Temperature Composites
Entity Title:	Operator
Affiliation Address:	5730 Katella Ave
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported

Name:	ROLLS-ROYCE HIGH TEMPERATURE COMPOSITES (KATELLA)
Address:	5730 KATELLA AVE
City,State,Zip:	CYPRESS, CA 90630
Site ID:	370342
CERS ID:	10664809
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	370342
Site Name:	Rolls-Royce High Temperature Composites (Katella)
Violation Date:	04-24-2018

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

Citation:	22 CCR 18 66268.7(a) - California Code of Regulations, Title 22, Chapter 18, Section(s) 66268.7(a)
Violation Description:	Failure to determine if the waste has to be treated before it can be land disposed and retain the documentation at least three years from the date that the waste was last sent to on-site or off-site treatment, storage, or disposal.
Violation Notes:	Returned to compliance on 07/10/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	370342
Site Name:	Rolls-Royce High Temperature Composites (Katella)
Violation Date:	04-16-2020
Citation:	22 CCR 45 67450.13(a)(2) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.13(a)(2)
Violation Description:	Failure to adjust Closure Costs for inflation / deflation by March 1st
Violation Notes:	Returned to compliance on 05/19/2020. As a facility conducting treatment of hazardous waste under the PBR tier you are required to annually submit a written estimate of your closure cost to CERS by March 1st. A written estimate of the closure cost was last submitted to CERS on 06/05/2019. Submit an updated closure cost estimate to CERS by 05/16/2020.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	370342
Site Name:	Rolls-Royce High Temperature Composites (Katella)
Violation Date:	04-11-2019
Citation:	22 CCR 45 67450.3(c)(9)(F) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(9)(F)
Violation Description:	Failure to obtain and maintain a written assessment reviewed and certified by an independent, qualified, professional engineer prior to placing the tank system in service. The written assessment shall state that, the new hazardous waste tank system has sufficient structural integrity, is acceptable for the transferring, storing and treating of hazardous waste, and that the tanks and containment system including the foundation, structural support, seams, connections, and pressure controls (if applicable) are suitably designed to meet the regulation. The tank assessment shall be valid for five (5) years.
Violation Notes:	OBSERVATION: PE certification is required for the neutralization tank that was installed in late 2018. CORRECTIVE ACTION: Provide a copy of the PE certification for the tank to this Agency within 60 days.
Violation Division:	Orange County Environmental Health
Violation Program:	CA
Violation Source:	CERS
Site ID:	370342
Site Name:	Rolls-Royce High Temperature Composites (Katella)
Violation Date:	04-11-2019
Citation:	HSC 6.5 25200.3(c(5), 25200.3(c)(7) - California Health and Safety Code, Chapter 6.5, Section(s) 25200.3(c(5), 25200.3(c)(7)
Violation Description:	Failure to prepare and maintain onsite for five years, a treatment system inspection program and the log of inspections conducted.
Violation Notes:	OBSERVATION: Facility does not have a written inspection schedule. CORRECTIVE ACTION: Implement a written inspection schedule for the

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

	tanks and submit copy of document to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	CA
Violation Source:	CERS
Site ID:	370342
Site Name:	Rolls-Royce High Temperature Composites (Katella)
Violation Date:	04-16-2020
Citation:	HSC 6.5 25200.3(e) - California Health and Safety Code, Chapter 6.5, Section(s) 25200.3(e)
Violation Description:	Failure to submit the signature page for the onsite treatment notification.
Violation Notes:	As a facility conducting treatment of hazardous waste under the CA tier you are required to annually submit the waste minimization statement to CERS by March 1st. The waste minimization statement was last submitted to CERS on 06/05/2019. Submit an updated closure cost estimate to CERS by 05/16/2020. Waste Minimization Statement HSC 25200.3(C)2) & HSC 25202.9
Violation Division:	Orange County Environmental Health
Violation Program:	CA
Violation Source:	CERS
Site ID:	370342
Site Name:	Rolls-Royce High Temperature Composites (Katella)
Violation Date:	04-16-2020
Citation:	22 CCR 45 67450.13(a)(12) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.13(a)(12)
Violation Description:	Failure to adjust Closure Costs for inflation/deflation by March 1st.
Violation Notes:	As a facility conducting treatment of hazardous waste under the CA tier you are required to annually submit a written estimate of your closure cost to CERS by March 1st. A written estimate of the closure cost was last submitted to CERS on 06/05/2019. Submit an updated closure cost estimate to CERS by 05/16/2020.
Violation Division:	Orange County Environmental Health
Violation Program:	CA
Violation Source:	CERS
Site ID:	370342
Site Name:	Rolls-Royce High Temperature Composites (Katella)
Violation Date:	04-24-2018
Citation:	HSC 6.5 25200.14(b)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25200.14(b)(1)
Violation Description:	Failure to submit a Phase I Checklist to DTSC within one year of commencing operations.
Violation Notes:	Returned to compliance on 07/27/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	CA
Violation Source:	CERS
Site ID:	370342
Site Name:	Rolls-Royce High Temperature Composites (Katella)
Violation Date:	04-10-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

Violation Notes:	Returned to compliance on 07/27/2020. The facility failed to submit the hazardous materials business emergency plan on CERS by the due date of March 1, 2020. Corrective action: Within 30 days, notify this Agency that the hazardous materials inventory has been submitted.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	370342
Site Name:	Rolls-Royce High Temperature Composites (Katella)
Violation Date:	04-11-2019
Citation:	22 CCR 45 67450.3(c)(9)(A) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(9)(A)
Violation Description:	Failure to prepare a treatment system inspection program and the log of inspections conducted, and maintain onsite for three years.
Violation Notes:	OBSERVATION: Facility does not have a written inspection schedule for the containers. CORRECTIVE ACTION: Implement a written inspection schedule and submit documentation to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	370342
Site Name:	Rolls-Royce High Temperature Composites (Katella)
Violation Date:	04-11-2019
Citation:	22 CCR 45 67450.3(c)(8)(A)(c)(9)(A) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(8)(A)(c)(9)(A)
Violation Description:	Failure of an owner or operator to obtain a detailed chemical and physical analysis of a representative sample of the waste, which includes all information necessary to manage waste in accordance with the requirements, and to meet LDR requirements; Failure to analyze wastes according to the frequency specified in the plan and to retain waste analysis documentation for three years.
Violation Notes:	OBSERVATION: Waste Analysis Plan with waste analysis records was not available for review. CORRECTIVE ACTION: Submit a Waste Analysis Plan with records for the TP-PBR unit to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	370342
Site Name:	Rolls-Royce High Temperature Composites (Katella)
Violation Date:	04-11-2019
Citation:	22 CCR 45 67450.3(c)(8)(G) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(8)(G)
Violation Description:	Failure to prepare a written closure plan, to notify CUPA 15 days prior to the completion of closure, or to submit to CUPA a closure certification signed by the owner/operator and an independent P.E.
Violation Notes:	OBSERVATION: Closure plan for TP-PBR unit was not available for review. CORRECTIVE ACTION: Submit a copy of the closure plan to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	370342
Site Name:	Rolls-Royce High Temperature Composites (Katella)

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

Violation Date:	04-16-2020
Citation:	22 CCR 45 67450.2(c)(10) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.2(c)(10)
Violation Description:	Failure of the owner or operator of a fixed treatment unit (FTU), upon request by the CUPA or authorized agency, to prepare, and submit to CUPA a complete annual report detailing treatment activities conducted during the calendar year preceding the request.
Violation Notes:	Returned to compliance on 08/03/2020. As a facility conducting treatment of hazardous waste under the PBR tier you are required to annually submit notification of onsite hazardous waste treatment to CERS by March 1st. Notification of hazardous waste treatment was last submitted to CERS on 06/05/2019. Submit the notification for onsite hazardous waste treatment to CERS by 05/16/2020.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	370342
Site Name:	Rolls-Royce High Temperature Composites (Katella)
Violation Date:	04-11-2019
Citation:	22 CCR 45 67450.3(c)(9)(F) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(9)(F)
Violation Description:	Failure to obtain and maintain a written assessment reviewed and certified by an independent, qualified, professional engineer prior to placing the tank system in service. The written assessment shall state that, the new hazardous waste tank system has sufficient structural integrity, is acceptable for the transferring, storing and treating of hazardous waste, and that the tanks and containment system including the foundation, structural support, seams, connections, and pressure controls (if applicable) are suitably designed to meet the regulation. The tank assessment shall be valid for five (5) years.
Violation Notes:	OBSERVATION: One-time PE certification for secondary containment of 55-gal containers not available for review. CORRECTIVE ACTION: Submit a copy of the PE Certification within 60 days.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	370342
Site Name:	Rolls-Royce High Temperature Composites (Katella)
Violation Date:	09-26-2017
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 08/16/2018. Resubmit an accurate hazardous materials inventory as observed during inspection conducted 4/27/17 to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	04-10-2020
Violations Found:	Yes

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	The facility has failed to submit the Hazardous Materials Business Emergency Plan by the deadline March 1, 2020. To correct the violation log on to CERS and submit the business plan for the year 2020. A copy of this report was sent to robert.hays@rolls-royce.com.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-11-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine Permit by Rule inspection. Consent to enter, inspect, and take photographs was given by Robert Hays. Also present was Susan Berg of OCHCA. Facility is also regulated for the treatment of hazardous waste under the CA tier. The facility conducts treatment of acidic waste oil which is generated during routine maintenance of vacuum pumps. The waste oil is transferred to a 55-gallon poly drum. The waste is subject to neutralization and phase separation (gravity settling.) After separation, top layer of oil and remaining sludge are hauled off as non-RCRA hazardous waste. Mr. Hays confirmed that there have been no changes to the system and no releases in the previous three years. The following documents were available for review: inspection log and Phase 1 Environmental checklist. Annual Tiered Permitting notification documents were received for 2019.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-11-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine Tiered Permitting-Conditionally Authorized inspection. Consent to enter, inspect, and take photographs was given by Robert Hays. Also present was Susan Berg of OCHCA. The facility is also regulated for treatment of hazardous waste under the PBR tier. There have been no reported releases in the previous three years. Observed the following process: - Acidic reactive waste is generated in plumbing fixtures in the facilityG s process room. The facility has two acid neutralization units, or sinks, that alternate usage. The fixtures are placed into the neutralization sinks creating acid waste. The acid waste is neutralized (before being discharged to the POTW.) Per Mr. Hayes, one of the 100-gal neutralization sinks was switched out in late 2018 due to a crack in the tank. The following documents are available for review: inspection log, operating instructions for the treatment units, closure cost estimate, sewer agency discharge records, and Phase 1 [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	CA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-16-2020
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

Eval Notes:	This facility conducts treatment of acidic waste oil under the Permit by Rule (PBR) tier. As a facility conducting treatment under PBR you are required to annually submit the estimated closure cost and onsite hazardous waste treatment forms by March 1st the California Environmental Reporting System (CERS). To date facility has not submitted the required documentation for 2020. During the 04/11/2019 on site inspection conducted by this agency the following violations were observed and remain outstanding: -I019: a written inspection log for containers is not being maintained -I023: waste analysis records were missing from the Waste Analysis Plan -I009: one-time certification by a Professional Engineer of secondary containment holding containers where treatment is being conducted has not been completed -I015: a written Closure Plan was not available for review Violations I019 and I023 have been elevated to Class II violations. Submit the required documentation [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-16-2020
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This facility conducts treatment of acidic waste under the Conditionally Authorized (CA) treatment tier. As a facility conducting treatment under CA you are required to annually submit the estimated closure cost and waste minimization statement by March 1st the California Environmental Reporting System (CERS). To date facility has not submitted the required documentation for 2020. During the 04/11/2019 onsite inspection by this agency the following violations were observed and remain outstanding: -I401: written inspection schedule was not available for review -I008: Professional Engineer Certification for the neutralization tank installed in 2018 Violation I401 has been elevated to a Class II violation. Submit the required documentation listed in violations I401 and I008 to this agency immediately.
Eval Division:	Orange County Environmental Health
Eval Program:	CA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-24-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS: On site to conduct a routine Tiered Permitting inspection, accompanied by Dean Freed, Supervising Hazardous Materials Specialist. Consent to inspect and take any necessary photos was given by Robert Hays, HSE Business Partner. The facility has three units of treatment: 1. pH Neutralization of Contaminated Waste Oil 2. pH and Reactivity Neutralization in Tank 1 3. pH and Reactivity Neutralization in Tank 2 Acidic waste oil is generated during routine maintenance of vacuum pumps. The waste oil is transferred from pumps to a 55 gallon drum and is reported to have a pH of 0-1.5. The waste oil is treated by neutralization and phase separation (gravity settling). After 2-3 weeks of phase separation, the top layer of oil is hauled as non-RCRA hazardous waste and the remaining sludge is hauled as hazardous waste. Parts washer waste is managed and hauled as

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

hazardous waste. Acidic reactive waste is generated in plumbing fixtures in the process [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: CA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-26-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: INSPECTOR COMMENTS: A routine Tiered Permitting inspection was conducted 4/24/18. The facility generates a reactive acidic waste that undergoes treatment by neutralization. During the treatment process, approximately one to two gallons worth of solid residue settles to the bottom of the treatment tank per batch treatment. Per facility employee, Jason, the residue is disposed of into the municipal trash. The facility has not made a determination on whether or not this residue is hazardous. Discontinue disposing of this residue to the municipal trash until testing has been done to determine if it is hazardous or not. Please obtain a representative sample of this residue and have it tested by a state-certified laboratory for a Fish Bioassay (Acute Aquatic 96-hour LC50 Test) per Title 22 CCR Section 66261.24 (a)(6). Additional testing may be required depending on results. You may use generator knowledge to assume the residue is a hazardous waste and manage it as a hazardous [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-27-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Consent to inspect and take photos was provided by Emer Higgins the Head of Operations. A walk through of the facility was conducted. The following Hazardous Substances were observed being stored at above the reporting threshold and must be updated in the CERS HMBEP inventory: HM -Boron Trichoride -Nitrogen Liquid -Nitrogen gas -Argon gas -Sodium Hydroxide solid -Ammonia gas -Methyltrichlorosilane -Mobil DTE 25 oil -AFFF foam -Propane -Heat Transfer Fluid -Hydrogen liquid -Hydrogen gas -Acid treatment tank -Methane gas -300 gallon Sodium Hydroxide tank -Superla White Oil HW -Waste hydraulic oil -Waste Corrosive oil -Waste Propylene Glycol -Waste Acid treatment tanks -Waste Acid and oil treatment containers This facility is responsible for identifying all hazardous materials and hazardous wastes, which are above the following disclosure thresholds: Solids > [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-27-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Rolls-Royce High Temperature Composites Inc. 5730 Katella Ave.

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

Cypress, CA 90630 Owner : Rolls-Royce America Contact : Emer Higgins (emer.higgins@rolls-royce.com) A Tiered Permiting inspection was conducted with the facility contact Emer Higgins, Daeny Susanto, Ross Galligher and Orange County Health Hazmat Supervisor Susan Berg. The facility has notified in CERS (10664809) for 3 Conditionally Authorized Units. A walk through of the process and treatment system areas was conducted. The facility generates acid wastes from cleaning parts in a sink/tank, which is neutralized and the neutralized liquids are disposed to the POTW. There are two 100 gallon tanks used for neutralization and a sampling tank which the 2 tanks drain to before going to the sewer. The other treatment units disclosed treat oily waste parts washing solution containing acid generated during the maintenance and cleaning of vacuum pumps. The waste solution is neutralized and set to the [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: CA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-27-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Rolls-Royce High Temperature Composites Inc. 5730 Katella Ave. Cypress, CA 90630 Owner : Rolls-Royce America Contact : Emer Higgins (emer.higgins@rolls-royce.com) Onsite to conduct a new hazardous waste generator inspection. Consent to enter, inspect and take photographs was given by Emer Higgins the Head of Operations. (photos taken) The facility has moved from 18411 Gothard St. Ste BCDEF, Huntington Beach (FA0062538) The facility makes high temperature composites. Hazardous waste is generated, treated and stored in the facility. -The main HW storage area is inside the rear of the facility and in the vacuum pump maintenance room. -All Hazardous wastes are stored on secondary containment pallets. -All hazardous waste containers were be properly labeled with the words "hazardous waste", waste name, owner information, hazardous property, physical state and accumulation date. -All hazardous waste containers were closed. -All hazardous waste disposed, [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-27-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Financial assurance documents submitted to CERS on 5/19/20 were reviewed and accepted. Violation I564 regarding failure to adjust Closure Costs for inflation/deflation by March 1st, cited in inspection report dated 4/16/20, has been corrected.

Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-09-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

Eval Notes:	Called Robert Hays to see if he has received test results for waste determination of 2 waste streams from Truisdale Laboritories. Left a voicemail. Robert later emailed me the analytic results for white solid precipitate from neutralization sinks, and slurry rinsate which had not been observed during the routine inspection. The results will be reviewed at a later time.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-10-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received and reviewed analytical results from Robert Hays. Testing was conducted by CalScience. Results are for two different waste streams: white solid precipitate which is leftover residue from treatment in neutralization tanks, and silicon carbide slurry rinsate. Both samples were tested for Acute Aquatic 96-hour LC50 Test, pH, and California regulated metals per Title 22 CCR. Results of the sample testing are as follows: White Solid Precipitate - 0% mortality of fish, pH = 10.10, Title 22 CCR California metals either not detected or under TTLC limits Slurry Rinse - 0% mortality of fish, pH = 7.55, Title 22 CCR California metals not detected Based on these analytical results both waste streams are not hazardous. Violation I637 cited on 4/26/18 is corrected. A copy of this report was sent to Robert Hays.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-16-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS ID 10664809 HMBP submittal dated 8/16/18 was reviewed. All submittal elements have been accepted. The facility has corrected their Hazmat Inventory and a completed Emergency Response Plan was submitted. Violation I169 cited on 9/26/17 has been corrected. The facility has no remaining HMBP violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-04-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Talk with Dean and Darwin about
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-26-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	A review of the facility's CERS (California Environmental Reporting

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

System) Hazardous Materials Disclosure and Business Emergency Plan was conducted. Business Owner/Operator Identification declined - Your submission states ownership is under Rolls Royce North America, whereas your facility name is Rolls-Royce High Temperature Composites, Inc. Please verify and resubmit with the correct ownership of the facility. Hazardous Materials Inventory Declined - Per inspection conducted 4/27/17 several Hazardous Materials above disclosure thresholds were observed on site, which are not disclosed on this inventory. Add the following to your inventory: Mobil DTE25 Oil, AFFF Foam, Propane, Heat Transfer Fluid, Liquid Hydrogen, Acid Treatment Tank, Superla White Oil, Waste Hydraulic Oil, Waste Corrosive Oil, Waste Propylene Glycol, Waste Acid Treatment Tank, Waste Acid and Oil Treatment Containers. The facility is being cited a violation for failure to submit an accurate [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-20-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following documents have been reviewed and conditionally ACCEPTED on CERS: -Business Activities -Business Owner/Operator -Chemical Inventory -Facility Site Map -Emergency Response & Training Plans The following violation has been corrected: - I463: Failure to annually review and electronically submit the business plan on or before the required due date and certify that it is complete, accurate, and in compliance There are no outstanding Hazardous Materials Violations.

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-20-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The purpose of this offsite inspection reports is to follow up on violations that were noted on a previous inspection report. The following violation has been corrected: - I335: Failure of the owner or operator of a fixed treatment unit (FTU), upon request by the CUPA or authorized agency, to prepare, and submit to CUPA a complete annual report detailing treatment activities conducted during the calendar year preceding the request The following violations are outstanding and must be corrected IMMEDIATELY: -I019: a written inspection log for containers is not being maintained -I023: waste analysis records were missing from the Waste Analysis Plan -I009: one-time certification by a Professional Engineer of secondary containment holding containers where treatment is being conducted has not been completed -I015: a written Closure Plan was not available for review Submit the required documentation to this Agency immediately.

Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Coordinates:
Site ID: 370342

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

Facility Name:	Rolls-Royce High Temperature Composites (Katella)
Env Int Type Code:	HWG
Program ID:	10664809
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	33.802277
Longitude:	-118.033348

Affiliation:

Affiliation Type Desc:	Identification Signer
Entity Name:	Robert Hays
Entity Title:	HSE Business Partner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Rolls-Royce High Temperature Composites, Inc.
Entity Title:	Not reported
Affiliation Address:	5730 Katella Ave
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(562) 794-2018

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406

Affiliation Type Desc:	Onsite Treatment Unit Owner Operator
Entity Name:	Emer Higgins
Entity Title:	Head of Operations
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Onsite Treatment Unit Owner Operator
Entity Name:	Robert Hays
Entity Title:	HSE Business Partner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Robert Hays
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Robert Hays
Entity Title:	Not reported
Affiliation Address:	5730 Katella Avenue
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Rolls-Royce High Temperature Composites, 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:	(562) 794-2018
Affiliation Type Desc:	Property Owner
Entity Name:	Warland Drive Three LLC
Entity Title:	Not reported
Affiliation Address:	11155 Knott Avenue, Suite J
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(714) 895-5908
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	5730 Katella Avenue
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630-5005
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	ROLLS-ROYCE HIGH TEMPERATURE COMPOSITES INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITE, INC. (Continued) **S121666303**

Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

HWTS:
Name: ROLLS-ROYCE HIGH TEMPERATURE COMPOSITES
Address: 5730 KATELLA AVE
Address 2: Not reported
City,State,Zip: CYPRESS, CA 90630
EPA ID: CAL000415727
Inactive Date: Not reported
Create Date: 03/29/2016
Last Act Date: 07/23/2020
Mailing Name: Not reported
Mailing Address: 5730 KATELLA AVENUE
Mailing Address 2: Not reported
Mailing City,State,Zip: CYPRESS, CA 906300000
Owner Name: ROLLS ROYCE CORPORATION
Owner Address: 1875 EXPLORER ST STE 200
Owner Address 2: Not reported
Owner City,State,Zip: RESTON, VA 201900000
Contact Name: ROBERT HAYS
Contact Address: 5730 KATELLA AVENUE
Contact Address 2: Not reported
City,State,Zip: CYPRESS, CA 90630

NAICS:
EPA ID: CAL000415727
Create Date: 2016-03-29 15:13:42.540
NAICS Code: 327999
NAICS Description: All Other Miscellaneous Nonmetallic Mineral Product Manufacturing
Issued EPA ID Date: 2016-03-29 15:13:42.52700
Inactive Date: Not reported
Facility Name: ROLLS-ROYCE HIGH TEMPERATURE COMPOSITES
Facility Address: 5730 KATELLA AVE
Facility Address 2: Not reported
Facility City: CYPRESS
Facility County: Not reported
Facility State: CA
Facility Zip: 90630

L48 **ROLLS-ROYCE HIGH TEMPERATURE COMPOSITES** **RCRA NonGen / NLR** **1024854524**
South **5730 KATELLA AVE** **CAL000415727**
1/8-1/4 **CYPRESS, CA 90630**
0.131 mi.
690 ft. **Site 2 of 2 in cluster L**

Relative: RCRA NonGen / NLR:
Lower Date Form Received by Agency: 2016-03-29 00:00:00.0
Actual: Handler Name: ROLLS-ROYCE HIGH TEMPERATURE COMPOSITES
37 ft. Handler Address: 5730 KATELLA AVE
Handler City,State,Zip: CYPRESS, CA 90630
EPA ID: CAL000415727
Contact Name: ROBERT HAYS
Contact Address: 5730 KATELLA AVENUE

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITES (Continued) **1024854524**

Contact City,State,Zip:	CYPRESS, CA 90630
Contact Telephone:	657-337-6542
Contact Fax:	Not reported
Contact Email:	ROBERT.HAYS@ROLLS-ROYCE.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:	5730 KATELLA AVENUE
Mailing City,State,Zip:	CYPRESS, CA 90630-0000
Owner Name:	ROLLS ROYCE CORPORATION
Owner Type:	Other
Operator Name:	ROBERT HAYS
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

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITES (Continued) **1024854524**

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:	2018-09-06 17:07:37.0
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:	ROLLS ROYCE CORPORATION
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1875 EXPLORER ST STE 200
Owner/Operator City,State,Zip:	RESTON, VA 20190-0000
Owner/Operator Telephone:	703-834-1700
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ROBERT HAYS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5730 KATELLA AVENUE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	657-337-6542
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2016-03-29 00:00:00.0
Handler Name:	ROLLS-ROYCE HIGH TEMPERATURE COMPOSITES
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

ROLLS-ROYCE HIGH TEMPERATURE COMPOSITES (Continued) **1024854524**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 327999
NAICS Description: ALL OTHER MISCELLANEOUS NONMETALLIC MINERAL PRODUCT MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

M49 **ANDREASEN MACHINE INC** **RCRA NonGen / NLR** **1024829470**
NW **10583 PROGRESS WAY** **CAL000362726**
1/8-1/4 **CYPRESS, CA 90630**
0.134 mi.
707 ft. **Site 1 of 4 in cluster M**

Relative: **Higher**
Actual: **38 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2011-04-12 00:00:00.0
Handler Name:	ANDREASEN MACHINE INC	
Handler Address:		10583 PROGRESS WAY
Handler City,State,Zip:		CYPRESS, CA 90630-4711
EPA ID:		CAL000362726
Contact Name:		BOB MAGIE
Contact Address:		PO BOX 2347
Contact City,State,Zip:		LOS ALAMITOS, CA 90720
Contact Telephone:		562-431-0620
Contact Fax:		000-000-0000
Contact Email:		ANDREASEN.MACHINE@SBCGLOBAL.NET
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		PO BOX 2347
Mailing City,State,Zip:		LOS ALAMITOS, CA 90720-7347
Owner Name:		ANDREASEN MACHINE INC
Owner Type:		Other
Operator Name:		BOB MAGIE
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

ANDREASEN MACHINE INC (Continued) **1024829470**

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:	2018-09-05 20:34:17.0
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:	ANDREASEN MACHINE INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 2347
Owner/Operator City,State,Zip:	LOS ALAMITOS, CA 90720-7347

ANDREASEN MACHINE INC (Continued) **1024829470**

Owner/Operator Telephone: 562-431-0620
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: BOB MAGIE
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 2347
Owner/Operator City,State,Zip: LOS ALAMITOS, CA 90720
Owner/Operator Telephone: 562-431-0620
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2011-04-12 00:00:00.0
Handler Name: ANDREASEN MACHINE 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

---

50 East 1/8-1/4 0.138 mi. 726 ft. **DOUGLAS AIRCRAFT CO B-210**
6100 CHIP AVE
CYPRESS, CA 90630

RCRA-SQG FINDS ECHO HAZNET HWTS **1000235713 CAD982402471**

Relative: Higher
Actual: 40 ft.

RCRA-SQG:
Date Form Received by Agency: 1990-04-25 00:00:00.0
Handler Name: DOUGLAS AIRCRAFT CO B-210
Handler Address: 6100 CHIP AVE
Handler City,State,Zip: CYPRESS, CA 90630
EPA ID: CAD982402471
Contact Name: ENVIRONMENTAL MANAGER
Contact Address: 6100 CHIP AVE

DOUGLAS AIRCRAFT CO B-210 (Continued) **1000235713**

Contact City,State,Zip:	CYPRESS, CA 90630
Contact Telephone:	213-593-3789
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Other
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	CA
State District:	4
Mailing Address:	3855 LAKEWOOD BLVD 74 41
Mailing City,State,Zip:	LONG BEACH, CA 90846
Owner Name:	WARLAND INVESTMENT CO
Owner Type:	Private
Operator Name:	NOT REQUIRED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No

DOUGLAS AIRCRAFT CO B-210 (Continued) **1000235713**

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:	2002-06-27 03:33:31.0
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:	WARLAND INVESTMENT CO
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1990-04-25 00:00:00.0
Handler Name:	DOUGLAS AIRCRAFT CO B-210
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

DOUGLAS AIRCRAFT CO B-210 (Continued) **1000235713**

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: 110002804868

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000235713
Registry ID: 110002804868
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002804868
Name: DOUGLAS AIRCRAFT CO B-210
Address: 6100 CHIP AVE
City,State,Zip: CYPRESS, CA 90630

HAZNET:
Name: DOUGLAS AIRCRAFT CO B-210
Address: 6100 CHIP AVE
Address 2: Not reported
City,State,Zip: CYPRESS, CA 906300000
Contact: MICHAEL BINDER/ENVTL ENGR
Telephone: 5625933709
Mailing Name: Not reported
Mailing Address: 3855 N LAKEWOOD BLVD D009-0020

Year: 2000
Gepaid: CAD982402471
TSD EPA ID: CAD044429835
CA Waste Code: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: D99 - Disposal, Other
Tons: 0.2293

Year: 2000
Gepaid: CAD982402471

DOUGLAS AIRCRAFT CO B-210 (Continued) **1000235713**

TSD EPA ID: CAD044429835
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: D99 - Disposal, Other
Tons: 0.033

Year: 2000
Gepaid: CAD982402471
TSD EPA ID: CAD044429835
CA Waste Code: 281 - Adhesives
Disposal Method: D99 - Disposal, Other
Tons: 0.2293

Year: 1995
Gepaid: CAD982402471
TSD EPA ID: CAD044429835
CA Waste Code: 541 - Photochemicals/photoprocessing waste
Disposal Method: R01 - Recycler
Tons: 0.3

Additional Info:
Year: 1995
Gen EPA ID: CAD982402471

Shipment Date: 19951010
Creation Date: 7/26/1996 0:00:00
Receipt Date: 19951010
Manifest ID: 95463183
Trans EPA ID: CAD000057760
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD044429835
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 541 - Photochemicals / photo processing waste
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 0.3
Waste Quantity: 600
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2000
Gen EPA ID: CAD982402471

Shipment Date: 20000828
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 20243444

DOUGLAS AIRCRAFT CO B-210 (Continued) **1000235713**

Trans EPA ID:	CAD982030173
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D002
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.0165
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000828
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	20243444
Trans EPA ID:	CAD982030173
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.0165
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000828
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	20243444
Trans EPA ID:	CAD982030173
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics

DOUGLAS AIRCRAFT CO B-210 (Continued) **1000235713**

RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.033
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000828
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	20243444
Trans EPA ID:	CAD982030173
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.0165
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000828
Creation Date:	12/13/2000 0:00:00
Receipt Date:	20000828
Manifest ID:	20243444
Trans EPA ID:	CAD982030173
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

DOUGLAS AIRCRAFT CO B-210 (Continued) **1000235713**

Additional Code 5:	Not reported
Shipment Date:	20000828
Creation Date:	12/13/2000 0:00:00
Receipt Date:	20000828
Manifest ID:	20243444
Trans EPA ID:	CAD982030173
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.0165
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000828
Creation Date:	12/13/2000 0:00:00
Receipt Date:	20000828
Manifest ID:	20243444
Trans EPA ID:	CAD982030173
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.0165
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000828
Creation Date:	12/13/2000 0:00:00
Receipt Date:	20000828
Manifest ID:	20243444
Trans EPA ID:	CAD982030173
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported

DOUGLAS AIRCRAFT CO B-210 (Continued) **1000235713**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	281 - Adhesives
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000828
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	20243444
Trans EPA ID:	CAD982030173
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD044429835
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.1815
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	DOUGLAS AIRCRAFT CO B-210
Address:	6100 CHIP AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
EPA ID:	CAD982402471
Inactive Date:	06/30/2001
Create Date:	06/29/1990
Last Act Date:	08/10/2004
Mailing Name:	Not reported
Mailing Address:	3855 N LAKEWOOD BLVD D009-0020
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LONG BEACH, CA 908460003
Owner Name:	MCDONNELL DOUGLAS CORP
Owner Address:	PO BOX 516
Owner Address 2:	Not reported

DOUGLAS AIRCRAFT CO B-210 (Continued) **1000235713**

Owner City,State,Zip: ST LOUIS, MO 631660003
Contact Name: MICHAEL BINDER/ENVTL ENGR
Contact Address: INACTIVE PER VQ01 - BMI
Contact Address 2: Not reported
City,State,Zip: LONG BEACH, CA 908460003

N51 **DRS SENSORS AND TARGETING SYSTEMS INC** **CERS HAZ WASTE** **S113177792**
NE **10600 VALLEY VIEW ST** **HAZNET** **N/A**
1/8-1/4 **CYPRESS, CA 90630** **CERS**
0.140 mi. **HWTS**
741 ft. **Site 1 of 2 in cluster N**

Relative: Higher
Actual: 40 ft.

CERS HAZ WASTE:
Name: DRS SENSORS AND TARGETING SYSTEMS
Address: 10600 VALLEY VIEW ST
City,State,Zip: CYPRESS, CA 90630
Site ID: 411169
CERS ID: 10524070
CERS Description: Hazardous Waste Generator

HAZNET:
Name: DRS SENSORS AND TARGETING SYSTEMS INC
Address: 10600 VALLEY VIEW ST
Address 2: Not reported
City,State,Zip: CYPRESS, CA 906304833
Contact: KEVIN BALSLEY/MGR EHS
Telephone: 7142204337
Mailing Name: Not reported
Mailing Address: 10600 VALLEY VIEW ST

Year: 2019
Gepaid: CAR000162206
TSD EPA ID: AZD049318009
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: 0.00650

Year: 2019
Gepaid: CAR000162206
TSD EPA ID: CAD044429835
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: 0.32850

Year: 2019
Gepaid: CAR000162206
TSD EPA ID: NED981723513
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.02150

Year: 2019
Gepaid: CAR000162206
TSD EPA ID: UTD981552177
CA Waste Code: 551 - Laboratory waste chemicals

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.00250

Year: 2019
Gepaid: CAR000162206
TSD EPA ID: NED981723513
CA Waste Code: 181 - Other inorganic solid waste
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.00150

Year: 2019
Gepaid: CAR000162206
TSD EPA ID: CAD044429835
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: 0.00750

Year: 2018
Gepaid: CAR000162206
TSD EPA ID: NED981723513
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.12500

Year: 2018
Gepaid: CAR000162206
TSD EPA ID: CAD044429835
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: 0.04500

Year: 2018
Gepaid: CAR000162206
TSD EPA ID: UTD981552177
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.00950

Year: 2018
Gepaid: CAR000162206
TSD EPA ID: AZD049318009
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: 0.00250

Click this hyperlink while viewing on your computer to access
104 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2014
Gen EPA ID: CAR000162206

Shipment Date: 20140924

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Creation Date:	2/11/2015 22:15:01
Receipt Date:	20141002
Manifest ID:	008065427FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SECURED LAND TRANSPORT
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0375
Waste Quantity:	75
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:	20140924
Creation Date:	2/11/2015 22:15:01
Receipt Date:	20141002
Manifest ID:	008065427FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SECURED LAND TRANSPORT
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0125
Waste Quantity:	25
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:	20140924
Creation Date:	2/11/2015 22:15:01
Receipt Date:	20141002
Manifest ID:	008065427FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SECURED LAND TRANSPORT
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0125
Waste Quantity:	25
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:	20140924
Creation Date:	2/11/2015 22:15:01
Receipt Date:	20141002
Manifest ID:	008065427FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SECURED LAND TRANSPORT
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0035
Waste Quantity:	7
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:	20140924
Creation Date:	11/22/2014 22:15:06
Receipt Date:	20140924
Manifest ID:	008065428FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.04
Waste Quantity:	80
Quantity Unit:	P

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140924
Creation Date:	11/22/2014 22:15:06
Receipt Date:	20140924
Manifest ID:	008065428FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.01
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:	20140924
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008065427FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SECURED LAND TRANSPORT
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140620
Creation Date:	Not reported

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Receipt Date:	Not reported
Manifest ID:	007452719FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SLT
TSDF EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENV SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20140620
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007452719FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SLT
TSDF EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENV SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20140620
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007452719FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SLT
TSDF EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENV SERVICES INC
TSDF Alt EPA ID:	Not reported

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0225
Waste Quantity:	45
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAR000162206
Shipment Date:	20051206
Creation Date:	3/14/2006 12:20:53
Receipt Date:	Not reported
Manifest ID:	25149779
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.06
Waste Quantity:	120
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:	20051206
Creation Date:	3/14/2006 12:20:53
Receipt Date:	Not reported
Manifest ID:	25149779
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.125

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

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:	20051206
Creation Date:	3/14/2006 12:20:53
Receipt Date:	Not reported
Manifest ID:	25149779
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D009
Meth Code:	- Not reported
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:	20051206
Creation Date:	3/14/2006 12:20:53
Receipt Date:	Not reported
Manifest ID:	25149779
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	- Not reported
Quantity Tons:	0.0175
Waste Quantity:	35
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:	20051013

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Creation Date:	3/10/2006 10:48:02
Receipt Date:	Not reported
Manifest ID:	24674347
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D010
Meth Code:	- Not reported
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20051013
Creation Date:	3/10/2006 10:48:02
Receipt Date:	Not reported
Manifest ID:	24674347
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20051013
Creation Date:	3/10/2006 10:48:02
Receipt Date:	Not reported
Manifest ID:	24674347
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051013
Creation Date:	3/10/2006 10:48:02
Receipt Date:	Not reported
Manifest ID:	24674347
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050927
Creation Date:	4/13/2006 18:48:46
Receipt Date:	20051003
Manifest ID:	24674134
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	281 - Adhesives
RCRA Code:	Not reported
Meth Code:	T03 - Treatment, Incineration
Quantity Tons:	0.0275
Waste Quantity:	55
Quantity Unit:	P
Additional Code 1:	Not reported

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050729
Creation Date:	10/12/2005 18:35:03
Receipt Date:	20050803
Manifest ID:	24414567
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEMS TRANSPORTATION
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.0125
Waste Quantity:	25
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2017
Gen EPA ID:	CAR000162206
Shipment Date:	20171110
Creation Date:	9/29/2018 18:30:10
Receipt Date:	20171203
Manifest ID:	011079508FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	1.23
Waste Quantity:	2460
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

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Shipment Date:	20171110
Creation Date:	9/29/2018 18:30:10
Receipt Date:	20171203
Manifest ID:	011079508FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0115
Waste Quantity:	23
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:	20171110
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	011079508FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D007
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20171110
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	011079508FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDF EPA ID:	ARD069748192

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0735
Waste Quantity:	147
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:	20171110
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	011079508FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	U134
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.015
Waste Quantity:	30
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171110
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	011079508FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.021
Waste Quantity:	42
Quantity Unit:	P

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Additional 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:	20171110
Creation Date:	8/2/2018 18:30:23
Receipt Date:	20171205
Manifest ID:	011079517FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	OKR000031492
Trans 2 Name:	BASIN TRANSPORTATION
TSDF EPA ID:	AZD049318009
Trans Name:	CLEAN HARBORS ARIZONA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D009
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0055
Waste Quantity:	11
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171110
Creation Date:	6/13/2018 18:31:31
Receipt Date:	20171127
Manifest ID:	011079513FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D007
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.028
Waste Quantity:	56
Quantity Unit:	P
Additional Code 1:	D006
Additional Code 2:	D005
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171110

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Creation Date:	10/8/2018 18:30:25
Receipt Date:	20171128
Manifest ID:	011079509FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDF EPA ID:	TXD982290140
Trans Name:	CLEAN HARBORS LAPORTE 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:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20171110
Creation Date:	9/29/2018 18:30:10
Receipt Date:	20171203
Manifest ID:	011079508FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES INC
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0205
Waste Quantity:	41
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2010
Gen EPA ID:	CAR000162206

Shipment Date:	20101111
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003885262FLE
Trans EPA ID:	MAD039322250

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0225
Waste Quantity:	45
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:	20101111
Creation Date:	4/22/2011 18:31:02
Receipt Date:	20101206
Manifest ID:	003885262FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.15
Waste Quantity:	300
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:	20101111
Creation Date:	4/22/2011 18:31:02
Receipt Date:	20101206
Manifest ID:	003885262FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE 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

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.1125
Waste Quantity:	225
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:	20101111
Creation Date:	4/22/2011 18:31:02
Receipt Date:	20101206
Manifest ID:	003885262FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F005
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101111
Creation Date:	4/22/2011 18:30:28
Receipt Date:	20101122
Manifest ID:	003885263FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	TXD982290140
Trans Name:	CLEAN HARBORS LAPORTE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H121 - Neutralization Only
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

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Shipment Date:	20101111
Creation Date:	4/22/2011 18:31:02
Receipt Date:	20101206
Manifest ID:	003885262FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D007
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20100902
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003399972FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
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:	20100902
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003399972FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	UTD981552177

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Trans Name:	CLEAN HARBORS ARAGONITE 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:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100902
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003399972FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.004
Waste Quantity:	8
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:	20100902
Creation Date:	2/8/2011 18:30:17
Receipt Date:	20100911
Manifest ID:	003399972FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.215
Waste Quantity:	430
Quantity Unit:	P

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2006
Gen EPA ID:	CAR000162206
Shipment Date:	20061201
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000507572FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.35
Waste Quantity:	700
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:	20061201
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000507572FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061201
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000507572FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061201
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000507572FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061201
Creation Date:	7/13/2007 18:30:33
Receipt Date:	20061211
Manifest ID:	000507572FLE

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061201
Creation Date:	7/13/2007 18:30:33
Receipt Date:	20061211
Manifest ID:	000507572FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061201
Creation Date:	7/13/2007 18:30:33
Receipt Date:	20061211
Manifest ID:	000507572FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061201
Creation Date:	7/13/2007 18:30:33
Receipt Date:	20061211
Manifest ID:	000507572FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061201
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000507572FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

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:	20061013
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000583039FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F005
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:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2011
Gen EPA ID:	CAR000162206
Shipment Date:	20111130
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	002091006FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D007
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.015
Waste Quantity:	30
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111130
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	002091006FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.035
Waste Quantity:	70
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:	20111130
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	002091006FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111130
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	002091006FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE 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:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20111130
Creation Date:	12/3/2012 22:15:38
Receipt Date:	20111205
Manifest ID:	002091006FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20111130
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	002091006FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
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:	20111130
Creation Date:	12/3/2012 22:15:38
Receipt Date:	20111205
Manifest ID:	002091006FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111130
Creation Date:	12/3/2012 22:15:38
Receipt Date:	20111205
Manifest ID:	002091006FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.08
Waste Quantity:	160
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

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Shipment Date:	20111130
Creation Date:	12/3/2012 22:15:38
Receipt Date:	20111205
Manifest ID:	002091006FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F005
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20111130
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	002091006FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE 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:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2012
Gen EPA ID:	CAR000162206

Shipment Date:	20121023
Creation Date:	1/13/2013 22:15:06
Receipt Date:	20121024
Manifest ID:	005541097FLE
Trans EPA ID:	MAD039322250

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121023
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	005541097FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON 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:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121023
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	005541097FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Waste Code Description:	123 - Unspecified alkaline solution
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121023
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	005541097FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.015
Waste Quantity:	30
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121023
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	005541097FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Additional 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:	20121023
Creation Date:	1/13/2013 22:15:06
Receipt Date:	20121024
Manifest ID:	005541097FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121023
Creation Date:	1/13/2013 22:15:06
Receipt Date:	20121024
Manifest ID:	005541097FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	123 - Unspecified alkaline solution
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121023

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Creation Date:	1/13/2013 22:15:06
Receipt Date:	20121024
Manifest ID:	005541097FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120806
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	005330336FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD055141378
Trans Name:	CLEAN HARBORS DEER PARK LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.02
Waste Quantity:	40
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:	20120806
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	005330336FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD055141378

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Trans Name:	CLEAN HARBORS DEER PARK LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	123 - Unspecified alkaline solution
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2008
Gen EPA ID:	CAR000162206
Shipment Date:	20081120
Creation Date:	4/9/2009 18:30:20
Receipt Date:	20081203
Manifest ID:	001203660FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	UTR000007708
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	TXD055141378
Trans Name:	CLEAN HARBORS DEER PARK LP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.075
Waste Quantity:	150
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:	20081120
Creation Date:	4/9/2009 18:30:20
Receipt Date:	20081203
Manifest ID:	001203660FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	UTR000007708
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	TXD055141378
Trans Name:	CLEAN HARBORS DEER PARK LP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081120
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001203660FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	UTR000007708
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	TXD055141378
Trans Name:	CLEAN HARBORS DEER PARK LP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081120
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001203660FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	UTR000007708
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	TXD055141378
Trans Name:	CLEAN HARBORS DEER PARK LP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Shipment Date:	20081120
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001203660FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	UTR000007708
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	TXD055141378
Trans Name:	CLEAN HARBORS DEER PARK LP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0625
Waste Quantity:	125
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20081120
Creation Date:	4/9/2009 18:30:20
Receipt Date:	20081203
Manifest ID:	001203660FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	UTR000007708
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	TXD055141378
Trans Name:	CLEAN HARBORS DEER PARK LP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0075
Waste Quantity:	15
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:	20081120
Creation Date:	4/9/2009 18:30:20
Receipt Date:	20081203
Manifest ID:	001203660FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	UTR000007708
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	TXD055141378

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Trans Name:	CLEAN HARBORS DEER PARK LP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.035
Waste Quantity:	70
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:	20080804
Creation Date:	12/30/2008 18:30:07
Receipt Date:	20080819
Manifest ID:	002110060FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F005
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080804
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	002110060FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0225
Waste Quantity:	45

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

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:	20080804
Creation Date:	12/30/2008 18:30:07
Receipt Date:	20080819
Manifest ID:	002110060FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F005
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAR000162206
Shipment Date:	20150805
Creation Date:	2/8/2016 22:17:47
Receipt Date:	20150813
Manifest ID:	008830538FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SLT EXPRESSWAY INC
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F005
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Additional Code 5:	Not reported
Shipment Date:	20150805
Creation Date:	2/8/2016 22:17:47
Receipt Date:	20150813
Manifest ID:	008830538FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SLT EXPRESSWAY INC
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150805
Creation Date:	2/8/2016 22:17:47
Receipt Date:	20150813
Manifest ID:	008830538FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SLT EXPRESSWAY INC
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	123 - Unspecified alkaline solution
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150805
Creation Date:	2/8/2016 22:17:47
Receipt Date:	20150813
Manifest ID:	008830538FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000513770

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Trans 2 Name:	SLT EXPRESSWAY INC
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150805
Creation Date:	10/12/2015 22:15:28
Receipt Date:	20150806
Manifest ID:	008830539FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0425
Waste Quantity:	85
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:	20150805
Creation Date:	10/12/2015 22:15:28
Receipt Date:	20150806
Manifest ID:	008830539FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150501
Creation Date:	8/27/2015 22:15:26
Receipt Date:	20150501
Manifest ID:	008315619FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	U134
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0175
Waste Quantity:	35
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150501
Creation Date:	8/27/2015 22:15:26
Receipt Date:	20150501
Manifest ID:	008315619FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	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:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150501
Creation Date:	8/27/2015 22:15:26
Receipt Date:	20150501
Manifest ID:	008315619FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.016
Waste Quantity:	32
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:	20150501
Creation Date:	8/27/2015 22:15:26
Receipt Date:	20150501
Manifest ID:	008315619FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0225
Waste Quantity:	45
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2009
Gen EPA ID:	CAR000162206

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Shipment Date:	20091215
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003012776FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
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:	20091215
Creation Date:	6/29/2010 18:30:46
Receipt Date:	20091221
Manifest ID:	003012774FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20091215
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003012776FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
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:	20091215
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003012776FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091215
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	003012776FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091215
Creation Date:	7/19/2010 18:30:17
Receipt Date:	20091230
Manifest ID:	003012775FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	UTR000007708
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	TXD982290140
Trans Name:	CLEAN HARBORS LA PORTE LP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H121 - Neutralization Only
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091215
Creation Date:	3/5/2010 18:31:15
Receipt Date:	20091216
Manifest ID:	003012776FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Additional Code 5:	Not reported
Shipment Date:	20091215
Creation Date:	3/5/2010 18:31:15
Receipt Date:	20091216
Manifest ID:	003012776FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091215
Creation Date:	3/5/2010 18:31:15
Receipt Date:	20091216
Manifest ID:	003012776FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091215
Creation Date:	3/5/2010 18:31:15
Receipt Date:	20091216
Manifest ID:	003012776FLE
Trans EPA ID:	MAD039322250

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2016
Gen EPA ID:	CAR000162206
Shipment Date:	20150805
Creation Date:	10/12/2015 22:15:28
Receipt Date:	20150806
Manifest ID:	008830539FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150805
Creation Date:	2/8/2016 22:17:47
Receipt Date:	20150813
Manifest ID:	008830538FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SLT EXPRESSWAY INC

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F005
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150805
Creation Date:	2/8/2016 22:17:47
Receipt Date:	20150813
Manifest ID:	008830538FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SLT EXPRESSWAY INC
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150805
Creation Date:	2/8/2016 22:17:47
Receipt Date:	20150813
Manifest ID:	008830538FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SLT EXPRESSWAY INC
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	123 - Unspecified alkaline solution
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0075
Waste Quantity:	15

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

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:	20150805
Creation Date:	2/8/2016 22:17:47
Receipt Date:	20150813
Manifest ID:	008830538FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SLT EXPRESSWAY INC
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150805
Creation Date:	10/12/2015 22:15:28
Receipt Date:	20150806
Manifest ID:	008830539FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0425
Waste Quantity:	85
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:	20150501

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008315619FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.016
Waste Quantity:	32
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:	20150501
Creation Date:	8/27/2015 22:15:26
Receipt Date:	20150501
Manifest ID:	008315619FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	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:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150501
Creation Date:	8/27/2015 22:15:26
Receipt Date:	20150501
Manifest ID:	008315619FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	U134
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0175
Waste Quantity:	35
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150501
Creation Date:	8/27/2015 22:15:26
Receipt Date:	20150501
Manifest ID:	008315619FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.016
Waste Quantity:	32
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2007
Gen EPA ID:	CAR000162206
Shipment Date:	20071130
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001822070FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071130
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001822070FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	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:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071130
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001822070FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

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:	20071130
Creation Date:	3/12/2008 18:30:10
Receipt Date:	20071130
Manifest ID:	001822070FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0175
Waste Quantity:	35
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:	20071130
Creation Date:	3/12/2008 18:30:10
Receipt Date:	20071130
Manifest ID:	001822070FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Shipment Date:	20071130
Creation Date:	3/12/2008 18:30:10
Receipt Date:	20071130
Manifest ID:	001822070FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20071130
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001822070FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0375
Waste Quantity:	75
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:	20071016
Creation Date:	2/29/2008 18:30:31
Receipt Date:	20071017
Manifest ID:	000533451FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F005
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:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071016
Creation Date:	2/29/2008 18:30:31
Receipt Date:	20071017
Manifest ID:	000533451FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071016
Creation Date:	2/29/2008 18:30:31
Receipt Date:	20071017
Manifest ID:	000533451FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON 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

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAR000162206
Shipment Date:	20131209
Creation Date:	4/24/2014 22:15:08
Receipt Date:	20131213
Manifest ID:	006105848FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT
TSDF EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENV SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F005
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131209
Creation Date:	5/14/2014 22:14:54
Receipt Date:	20131216
Manifest ID:	006105847FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0475
Waste Quantity:	95
Quantity Unit:	P

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

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:	20131209
Creation Date:	5/14/2014 22:14:54
Receipt Date:	20131216
Manifest ID:	006105847FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131209
Creation Date:	5/14/2014 22:14:54
Receipt Date:	20131216
Manifest ID:	006105847FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0325
Waste Quantity:	65
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:	20131209
Creation Date:	5/14/2014 22:14:54
Receipt Date:	20131216

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Manifest ID:	006105847FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131003
Creation Date:	11/25/2013 22:15:16
Receipt Date:	20131003
Manifest ID:	006104908FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.002
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:	20131003
Creation Date:	11/25/2013 22:15:16
Receipt Date:	20131003
Manifest ID:	006104908FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0875
Waste Quantity:	175
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131003
Creation Date:	11/25/2013 22:15:16
Receipt Date:	20131003
Manifest ID:	006104908FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131003
Creation Date:	11/25/2013 22:15:16
Receipt Date:	20131003
Manifest ID:	006104908FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON 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:	0.05
Waste Quantity:	100

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

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:	20130718
Creation Date:	11/29/2013 22:15:05
Receipt Date:	20130808
Manifest ID:	004708656FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	F003
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.075
Waste Quantity:	150
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

CERS:

Name:	DRS SENSORS AND TARGETING SYSTEMS
Address:	10600 VALLEY VIEW ST
City,State,Zip:	CYPRESS, CA 90630
Site ID:	411169
CERS ID:	10524070
CERS Description:	Chemical Storage Facilities

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	02-11-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Denied Reviewed HMBEP submission package on eSubmit Portal. Submission DENIED. Request for re-submittal.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-13-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Approved. The following documents were received and ACCEPTED on the eSubmit Portal: Business Activities Form Business Owner/Operator Form Chemical Inventory for (# of chemicals) Facility Site Map

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-13-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following documents have been reviewed and approved: - Activities Declaration; - Chemical Inventory; - Business Emergency Plan; and, - Facility Map. Please keep the documents available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-20-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed facility's CERS HMBEP Submission. All HMBEP submittal elements have been accepted.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-20-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Submission Accepted. No comments.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-22-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Met with health and safety supervisor Barbara Ross, who provided consent to conduct inspection activities. DRS Sensors and Targeting Systems has disclosed their chemicals stored on site into the E-Submit Portal database. The submission was reviewed and accepted on February 13, 2014. An inspection of the facility was conducted in order to verify HMBEP accuracy. The facility map, business emergency plan, and training documents were all verified and reviewed. Please note that if the facility decides to discontinue any of the above chemicals, proper disposal or removal of chemicals is required and maintenance of disposal records will be verified by this agency. In addition, the HMBEP submission will need to be revised within 30 days of the removal date to accurately show the correct list of disclosable chemicals.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Eval Date:	09-22-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. Met with health and safety engineer Barbara Ross, who gave consent to enter and inspect the facility. Hazardous waste observed on site include: - 1 gallon bottles of waste sulfuric acid, potassium dichromate, hydrogen fluoride, hydrogen peroxide, nitric acid, and ammonium hydroxide. In addition, waste acetone was contained in a 55-gallon drum. All containers were labeled and properly stored closed. All hazardous waste was stored in storage bins behind the main building. Hazardous waste manifests for all hazardous waste streams were available for review. Perimeter of the facility and the municipal dumpster was inspected. Did not observe any indication of a hazardous waste release or illegal dumping along the perimeter of the facility. The Hazardous Waste Emergency Response information was available in the business emergency plan.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-25-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Consent to inspect was provided by Kevin Balsley. A walk through of the facility was conducted. The following Hazardous Substances were observed being stored at above the reporting threshold: HM - Nitrogen gas - Liquid Nitrogen - Helium gas - Liquid Helium - Lead Acid Batteries - Freon 14 - Freon R-23 - Oxygen HW -Waste flammable liquids This facility is responsible for identifying all hazardous materials and hazardous wastes, which are above the following disclosure thresholds: Solids > 500 pounds. Liquids > or = 55 gallons Gas > or = 200 cubic feet Site map is available for review. Employee training is available for review. Ensure the HMBEP is resubmitted by March 1st every year.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-25-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. Consent to inspect and take photos at the facility was provided by Kevin Balsley. The facility has numerous waste acetone wipe storage containers throughout the facility and all are emptied daily to a designated container. Municipal dumpster area does not contain any hazardous waste. The perimeter of the facility was also inspected; no signs of releases were noted. Emergency Response Information was complete. Hazardous waste containers were properly labeled and covered. Reviewed manifests, bills of lading and consolidated manifests for all hazardous waste streams. For further information about Hazardous Waste management, please refer to the Orange County CUPA website at www.occupainfo.com and open the PDF G Hazardous Waste the BasicsG . No

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

hazardous waste violations noted today.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-26-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Field audit
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-26-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Submission under review
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-06-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Submission under review.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-10-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBEP denied due to map errors and chemical description errors. Reviewed HMBEP submission package on eSubmit Portal. DENIED on 12/10/13.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 411169
Facility Name: DRS SENSORS AND TARGETING SYSTEMS
Env Int Type Code: HMBP
Program ID: 10524070
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.808450
Longitude: -118.026990

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Kevin Balsley

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406
Affiliation Type Desc:	Environmental Contact
Entity Name:	Kevin Balsley
Entity Title:	Not reported
Affiliation Address:	10600 Valley View Street
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	10600 VALLEY VIEW ST
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	DRS SENSORS AND TARGETING SYS
Entity Title:	Not reported
Affiliation Address:	10600 VALLEY VIEW ST
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(714) 220-4337
Affiliation Type Desc:	Identification Signer
Entity Name:	Mark Muzilla
Entity Title:	Site Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **S113177792**

Affiliation Type Desc:	Operator
Entity Name:	DRS Sensors & Targeting Systems
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 220-4337

Affiliation Type Desc:	Parent Corporation
Entity Name:	DRS SENSORS AND TARGETING SYSTEMS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

HWTS:

Name:	DRS SENSORS AND TARGETING SYSTEMS INC
Address:	10600 VALLEY VIEW ST
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906304833
EPA ID:	CAR000162206
Inactive Date:	Not reported
Create Date:	08/23/2005
Last Act Date:	07/15/2020
Mailing Name:	Not reported
Mailing Address:	10600 VALLEY VIEW ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CYPRESS, CA 906304833
Owner Name:	DRS SENSORS & TARGETING SYS
Owner Address:	10600 VALLEY VIEW ST
Owner Address 2:	Not reported
Owner City,State,Zip:	CYPRESS, CA 906304833
Contact Name:	KEVIN BALSLEY/MGR EHS
Contact Address:	10600 VALLEY VIEW ST
Contact Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 90630

NAICS:

EPA ID:	CAR000162206
Create Date:	2007-03-27 16:17:47.000
NAICS Code:	334413
NAICS Description:	Semiconductor and Related Device Manufacturing
Issued EPA ID Date:	2005-08-23 15:01:35
Inactive Date:	Not reported
Facility Name:	DRS SENSORS AND TARGETING SYSTEMS INC
Facility Address:	10600 VALLEY VIEW ST
Facility Address 2:	Not reported
Facility City:	CYPRESS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	906304833

N52 **DRS SENSORS AND TARGETING SYSTEMS INC** **RCRA-SQG** **1008372054**
NE **10600 VALLEY VIEW ST.** **CAR000162206**
1/8-1/4 **CYPRESS, CA 90630**
0.140 mi.
741 ft. **Site 2 of 2 in cluster N**

Relative: RCRA-SQG:
Higher

Actual: Date Form Received by Agency: 2008-03-07 00:00:00.0
40 ft. Handler Name: DRS SENSORS AND TARGETING SYSTEMS INC
Handler Address: 10600 VALLEY VIEW ST.
Handler City,State,Zip: CYPRESS, CA 90630
EPA ID: CAR000162206
Contact Name: KEVIN BALSLEY
Contact Address: Not reported
Contact City,State,Zip: Not reported
Contact Telephone: 714-220-4337
Contact Fax: Not reported
Contact Email: KEVIN.BALSLEY@DRS-STS.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: 2007
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: 10600 VALLEY VIEW ST.
Mailing City,State,Zip: CYPRESS, CA 90630
Owner Name: DRS- PUBLIC COMPANY
Owner Type: Other
Operator Name: DRS- PUBLIC COMPANY
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

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **1008372054**

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:	2008-10-15 00:00:00.0
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:	2007

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D003
Waste Description:	REACTIVE WASTE
Waste Code:	D004
Waste Description:	ARSENIC
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D009

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **1008372054**

Waste Description: MERCURY

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 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: F004
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; 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, 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: Operator
Owner/Operator Name: DRS STS
Legal Status: Private

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **1008372054**

Date Became Current:	2005-03-01 00:00:00.
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:	WARLAND INVESTMENTS COMPANY
Legal Status:	Private
Date Became Current:	1985-08-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	1299 OCEAN AVENUE
Owner/Operator City,State,Zip:	SANTA MONICA, CA 90401
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	DRS SENSORS AND TARGETING SYSTEMS INC
Legal Status:	Private
Date Became Current:	2005-03-01 00:00:00.
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:	WARLAND INVESTMENTS CO
Legal Status:	Private
Date Became Current:	1985-08-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	1299 OCEAN AVENUE
Owner/Operator City,State,Zip:	SANTA MONICA, CA 90401
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:	DRS- PUBLIC COMPANY
Legal Status:	Other
Date Became Current:	2005-08-26 00:00:00.
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

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **1008372054**

Owner/Operator Indicator: Operator
Owner/Operator Name: DRS- PUBLIC COMPANY
Legal Status: Other
Date Became Current: 2005-08-26 00:00:00.
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

Historic Generators:

Receive Date: 2005-04-19 00:00:00.0
Handler Name: DRS SENSORS AND TARGETING SYSTEMS INC
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: 2006-02-10 00:00:00.0
Handler Name: DRS SENSORS AND TARGETING SYSTEMS INC
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: 2008-03-07 00:00:00.0
Handler Name: DRS SENSORS AND TARGETING SYSTEMS INC
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: 333314
NAICS Description: OPTICAL INSTRUMENT AND LENS MANUFACTURING

DRS SENSORS AND TARGETING SYSTEMS INC (Continued) **1008372054**

NAICS Code: 334413
NAICS Description: SEMICONDUCTOR AND RELATED DEVICE MANUFACTURING

NAICS Code: 334511
NAICS Description: SEARCH, DETECTION, NAVIGATION, GUIDANCE, AERONAUTICAL, AND NAUTICAL SYSTEM AND INSTRUMENT MANUFACTURING

NAICS Code: 54171
NAICS Description: RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

M53 **CENTRAL MEDICAL LAB** **RCRA-SQG** **1014387876**
NNW **10554 PROGRESS WAY** **CAR000214791**
1/8-1/4 **CYPRESS, CA 90630**
0.145 mi.
767 ft. **Site 2 of 4 in cluster M**

Relative: **Higher**

Actual: **38 ft.**

RCRA-SQG:

Date Form Received by Agency:		2010-10-21 00:00:00.0
Handler Name:	CENTRAL MEDICAL LAB	
Handler Address:		10554 PROGRESS WAY
Handler City,State,Zip:		CYPRESS, CA 90630
EPA ID:		CAR000214791
Contact Name:		GAYLE H COOPER
Contact Address:		10554 PROGRESS WAY
Contact City,State,Zip:		CYPRESS, CA 90630
Contact Telephone:		714-826-6830
Contact Fax:		714-821-1390
Contact Email:		GAYLEC@CENTRALMEDLAB.COM
Contact Title:		LAB DIRECTOR
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:		10554 PROGRESS WAY
Mailing City,State,Zip:		CYPRESS, CA 90630
Owner Name:		JEFF GRAND
Owner Type:		Private
Operator Name:		CENTRAL MEDICAL LABORATORY
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No

CENTRAL MEDICAL LAB (Continued) **1014387876**

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:	2010-11-30 19:41:48.0
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:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	F003

CENTRAL MEDICAL LAB (Continued) **1014387876**

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.

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CENTRAL MEDICAL LABORATORY
Legal Status:	Private
Date Became Current:	2005-12-27 00:00:00.
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:	JEFF GRAND
Legal Status:	Private
Date Became Current:	2002-10-15 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	375 BRISIOL
Owner/Operator City,State,Zip:	COSTA MESA, CA 92626
Owner/Operator Telephone:	714-557-1934
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2010-10-21 00:00:00.0
Handler Name: CENTRAL MEDICAL LAB	
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:	62151
NAICS Description:	MEDICAL AND DIAGNOSTIC LABORATORIES

Facility Has Received Notices of Violations:

CENTRAL MEDICAL LAB (Continued) **1014387876**

Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

O54 **TRUE POSITION DIE CO** **RCRA NonGen / NLR** **1025876557**
SW **5480 KATELLA AVE STE 204** **CAL000449693**
1/8-1/4 **LOS ALAMITOS, CA 90720**
0.150 mi.
790 ft. **Site 1 of 4 in cluster O**

Relative: **Lower**
Actual: **35 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2019-10-07 00:00:00.0
Handler Name:	TRUE POSITION DIE CO	
Handler Address:		5480 KATELLA AVE STE 204
Handler City,State,Zip:		LOS ALAMITOS, CA 90720
EPA ID:		CAL000449693
Contact Name:		SOMRUDEE LAOHAVANICH
Contact Address:		5480 KATELLA AVE STE 204
Contact City,State,Zip:		LOS ALAMITOS, CA 90720
Contact Telephone:		562-493-6109
Contact Fax:		Not reported
Contact Email:		TRU.PD@VERIZON.NET
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		5480 KATELLA AVE STE 204
Mailing City,State,Zip:		LOS ALAMITOS, CA 90720
Owner Name:		TATPONG KHAYIM
Owner Type:		Other
Operator Name:		SOMRUDEE LAOHAVANICH
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:		---

TRUE POSITION DIE CO (Continued) **1025876557**

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:	2019-10-11 18:29:08.0
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:	SOMRUDEE LAOHAVANICH
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5480 KATELLA AVE STE 204
Owner/Operator City,State,Zip:	LOS ALAMITOS, CA 90720
Owner/Operator Telephone:	562-493-6109
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	TATPONG KHAYIM
Legal Status:	Other
Date Became Current:	Not reported

TRUE POSITION DIE CO (Continued) **1025876557**

Date Ended Current: Not reported
Owner/Operator Address: 6860 VIA KANNELA ST
Owner/Operator City,State,Zip: STANTON, CA 90680
Owner/Operator Telephone: 562-773-0762
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2019-10-07 00:00:00.0
Handler Name: TRUE POSITION DIE CO
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: 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

O55 **TRUE POSITION DIE COMPANY** **RCRA NonGen / NLR** **1024803830**
SW **5480 KATELLA AVE** **CAL000254946**
1/8-1/4 **LOS ALAMITOS, CA 90720**
0.150 mi.
790 ft. **Site 2 of 4 in cluster O**

Relative: RCRA NonGen / NLR:
Lower Date Form Received by Agency: 2002-07-01 00:00:00.0
Actual: Handler Name: TRUE POSITION DIE COMPANY
35 ft. Handler Address: 5480 KATELLA AVE
Handler City,State,Zip: LOS ALAMITOS, CA 90720-0000
EPA ID: CAL000254946
Contact Name: TEE LAOHAVANICH
Contact Address: 5480 KATELLA AVE STE #204
Contact City,State,Zip: LOS ALAMITOS, CA 90720
Contact Telephone: 562-493-6109
Contact Fax: 000-000-0000
Contact Email: TRUE.PD@VERIZON.NET
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported

TRUE POSITION DIE COMPANY (Continued) **1024803830**

Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	5480 KATELLA AVE # 204
Mailing City,State,Zip:	LOS ALAMITOS, CA 90720-0000
Owner Name:	TERASAK LAOHAVANICH
Owner Type:	Other
Operator Name:	TEE LAOHAVANICH
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

TRUE POSITION DIE COMPANY (Continued) **1024803830**

Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 15:46:13.0
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:	TERASAK LAOHAVANICH
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5480 KATELLA AVE #204
Owner/Operator City,State,Zip:	LOS ALAMITOS, CA 90720-6822
Owner/Operator Telephone:	562-493-6109
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	TEE LAOHAVANICH
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5480 KATELLA AVE STE #204
Owner/Operator City,State,Zip:	LOS ALAMITOS, CA 90720
Owner/Operator Telephone:	562-493-6109
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2002-07-01 00:00:00.0
Handler Name:	TRUE POSITION DIE COMPANY
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:	333512
NAICS Description:	MACHINE TOOL (METAL CUTTING TYPES) MANUFACTURING

NAICS Code:	333513
NAICS Description:	MACHINE TOOL (METAL FORMING TYPES) MANUFACTURING

TRUE POSITION DIE COMPANY (Continued) **1024803830**

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

O56 **TRUE POSITION DIE CO** **CERS HAZ WASTE** **S113120480**
SW **5480 KATELLA AVE STE 204** **HAZNET** **N/A**
1/8-1/4 **LOS ALAMITOS, CA 90720** **NPDES**
0.150 mi. **CIWQS**
790 ft. **Site 3 of 4 in cluster O** **CERS**
HWTS

Relative:
Lower

Actual:
35 ft.

CERS HAZ WASTE:
Name: TRUE POSITION DIE CO
Address: 5480 KATELLA AVE STE 204
City,State,Zip: LOS ALAMITOS, CA 90720
Site ID: 370411
CERS ID: 10521958
CERS Description: Hazardous Waste Generator

HAZNET:
Name: TRUE POSITION DIE COMPANY
Address: 5480 KATELLA AVE
Address 2: Not reported
City,State,Zip: LOS ALAMITOS, CA 907200000
Contact: TATPONG KHAYIM
Telephone: 5624936109
Mailing Name: Not reported
Mailing Address: 5480 KATELLA AVE # 204

Year: 2019
Gepaid: CAL000254946
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: 0.22935

Year: 2007
Gepaid: CAL000254946
TSD EPA ID: CAT080013352
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: 0.266

Year: 2002
Gepaid: CAL000254946
TSD EPA ID: CAT080033681
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: R01 - Recycler

TRUE POSITION DIE CO (Continued) **S113120480**

Tons: 0.4587

Additional Info:
Year: 2007
Gen EPA ID: CAL000254946

Shipment Date: 20070501
Creation Date: 9/24/2007 18:30:06
Receipt Date: 20070501
Manifest ID: 002361408JJK
Trans EPA ID: CAL000264806
Trans Name: EXPRESS OIL CO
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080013352
Trans Name: DEMENNO KERDOON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 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: 0.266
Waste Quantity: 70
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2002
Gen EPA ID: CAL000254946

Shipment Date: 20020703
Creation Date: 1/21/2003 18:31:48
Receipt Date: 20020708
Manifest ID: 21860642
Trans EPA ID: CAL000827879
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080033681
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: F002
Meth Code: R01 - Recycler
Quantity Tons: 0.4587
Waste Quantity: 110
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported

TRUE POSITION DIE CO (Continued) **S113120480**

Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

NPDES:
Name: TRUE POSITION DIE CO
Address: 5480 KATELLA AVE
City,State,Zip: LOS ALAMITOS, CA 90720
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: 8 30NEC007632
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: Active
Status Date: 10/02/2020
Operator Name: True Position Die Co
Operator Address: 5480 Katella Ave
Operator City: Los Alamitos
Operator State: California
Operator Zip: 90720

Name: TRUE POSITION DIE CO
Address: 5480 KATELLA AVE
City,State,Zip: LOS ALAMITOS, CA 90720
Facility Status: Active
NPDES Number: CAS000001
Region: 8
Agency Number: 0
Regulatory Measure ID: 499959
Place ID: Not reported
Order Number: 97-03-DWQ
WDID: 8 30NEC007632
Regulatory Measure Type: Enrollee
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 10/02/2020
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: 5480 Katella Ave
Discharge Name: True Position Die Co
Discharge City: Los Alamitos
Discharge State: California
Discharge Zip: 90720

TRUE POSITION DIE CO (Continued) **S113120480**

Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

CIWQS:
Name: TRUE POSITION DIE CO
Address: 5480 KATELLA AVE
City,State,Zip: LOS ALAMITOS, CA 90720
Agency: True Position Die Co
Agency Address: 5480 Katella Ave, Los Alamitos, CA 90720
Place/Project Type: Industrial - Fabricated Metal Products, NEC
SIC/NAICS: 3499
Region: 8
Program: INDSTW
Regulatory Measure Status: Active
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ
WDID: 8 30NEC007632
NPDES Number: CAS000001
Adoption Date: 01/01/1900
Effective Date: 10/02/2020
Termination Date: 01/01/1900
Expiration/Review Date: 01/01/1900
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: 33.80243
Longitude: -118.03802

CERS:
Name: TRUE POSITION DIE CO
Address: 5480 KATELLA AVE STE 204
City,State,Zip: LOS ALAMITOS, CA 90720
Site ID: 370411
CERS ID: 10521958
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 370411
Site Name: TRUE POSITION DIE CO
Violation Date: 09-19-2019
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: OBSERVATION: The generator has not obtained a valid EPA ID number following a change of ownership. CORRECTIVE ACTION: Please obtain an EPA ID number by submitting DTSC form 1358 to the Department of Toxic Substances Control within 5 business days. Notify this agency when the

TRUE POSITION DIE CO (Continued) **S113120480**

new number has been issued.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 370411
Site Name: TRUE POSITION DIE CO
Violation Date: 07-04-2017
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 07/31/2017.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 370411
Site Name: TRUE POSITION DIE CO
Violation Date: 04-14-2016
Citation: 22 CCR 15 66265.31 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.31
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 the air, soil, or surface water which could threaten human health or the environment.
Violation Notes: Returned to compliance on 05/04/2016. The waste EDM filters were not being stored inside the designated waste filter drum. Owner/Operator shall immediately maintain the facility to minimize the possibility of any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, or surface water which could threaten human health or the environment. The Owner/Operator shall develop procedures to operate the facility in such a manner to minimize the possibility of any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, or surface water which could threaten human health or the environment.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 370411
Site Name: TRUE POSITION DIE CO
Violation Date: 04-14-2016
Citation: 22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description: Failure to dispose of hazardous waste within 180 days (or 270 if waste is transported over 200 miles) for the generator who generates less than 1000 kilogram per month, but more than 100 kilograms per month.
Violation Notes: Returned to compliance on 05/04/2016. The waste EDM filters have been stored on site beyond 180 days. Facilities who generate less than 1000 kg of hazardous waste per month and do not exceed 6000 kg of waste stored on site at any time may store waste on site up to 180 days. CORRECTIVE ACTION: Immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest.
Violation Division: Orange County Environmental Health

TRUE POSITION DIE CO (Continued) **S113120480**

Violation Program: HW
Violation Source: CERS

Site ID: 370411
Site Name: TRUE POSITION DIE CO
Violation Date: 07-04-2017
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 07/31/2017.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 370411
Site Name: TRUE POSITION DIE CO
Violation Date: 09-19-2019
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 09/19/2019. OBSERVATION: The 55-gallon container of waste oil was missing a hazardous waste label. CORRECTIVE ACTION: A label was placed on the container. Violation corrected on site.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-19-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - 3 x 55 gallon container of EDM Oil - 1 x 55 gallon container of cleaning solution - 1 x 55 gallon container of cutting oil REQUIREMENT FOR ELECTRONIC SUBMITTAL OF HMBEP DOCUMENTS: This report serves as notice that the facility must submit the following documents electronically within 30 days of this report: - Business Activities - Owner/Operator Information - Hazardous Materials Inventory - Site Map - Emergency Response Plan - Employee Training Plan Hazardous Materials Business Emergency Plan (HMBEP). The facility is responsible for identifying all hazardous materials, to include hazardous wastes, which are above disclosure thresholds. If there is a change in the type or amount of chemicals that are maintained on site, please submit revised documents (electronically) within [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

TRUE POSITION DIE CO (Continued) **S113120480**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-19-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed. Employees are reported to be trained. Emergency plan posted in the shop. No hazardous waste or universal waste observed in the dumpster/enclosure area.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-06-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site to follow up on a violation that was noted on a previous inspection report. The facility has obtained an EPA ID number (CAL000449693). The following violation has been corrected: -I352: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste The facility has no outstanding violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-30-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Hmbep declined Under Identification, please change this from Tee Ladhavanich to True Position Die Co. CHEMICAL INVENTORY: Provide average daily amount, largest container, and days on site for all chemicas. LPG G Add an average daily amount. The maximum daily amount should be 7 or more. This number should reflect the total amount of LPG present onsite at any one time. Morline Cutting Oil G Please provide a CAS# and hazardous material type. Mark yes for Fire and Chronic Health under federal haz. categories. If this is a mixture provide the components with CAS#s and % by weight. Grinding Coolant - Provide a CAS# and hazardous material type. Fill in any pertaining fire code hazards and federal hazards. Dielectric Iono Plus G Provide a CAS# and hazardous material type. Fill in any pertaining fire code hazards and federal hazards. Provide a site map with the following: your facility building, site orientation, adjacent streets, loading areas, storm drains and [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-06-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site to follow up on the Hazardous Materials Business Plan submittal for the facility. The following documents have been reviewed and ACCEPTED on CERS: -Business Activities -Business Owner/Operator -Chemical Inventory -Facility Site Map -Emergency Response & Training

TRUE POSITION DIE CO (Continued) **S113120480**

	Plans REMINDER: Please re-submit your HMBEP annually between January 1st G March 1st.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-14-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	True Position Die Company 5480 Katella Ave Suite 204 Los Alamitos, CA 90720 Tee Ladhavanich Email: true.pd@verizon.net FA0038335 On site to conduct a new facility inspection of this facility with regards to the Hazardous Materials Business Emergency Program. Consent to inspect and take photos of the facility was provided by Sue Laohavanich. This facility is responsible for identifying all hazardous materials and hazardous wastes, which are above the disclosure thresholds. Reporting thresholds for hazardous substances stored at the facility are 500 pounds of solids or 55 gallons of liquid or 200 cubic feet of gas. Hazardous wastes should have a separate disclosure. The facility was observed with the following Hazardous Materials and Hazardous Wastes being stored at the site. HM - Propane 1 x 7 gallon cylinder - Morline Cutting oil 55 gallons - Grinding Coolant 2x55 gallons - Dielectric Iono Plus 3000 US 55 gallons The HMBEP documents must be [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-14-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. Consent to inspect and take photos at the facility was provided by the Sue Ladhacanich. The facility has a 55 gallon drum full of EDM filters and 5 filters we observed being stored outside the drum (see violation). The accumulation start date on the drum of waste filters is 12-11-14 (see violation). We discussed the accumulation start date begins the day the filters area stored inside the drum and the facility has 6 months to store them onsite before they must dispose of them. The was observed with an accumulation of metal grinding dust on the floors and on the machines. We discussed the management of the dust. Ensure the dust is either placed in the Hazardous waste drum with the filters or conduct a waste determination in order to dispose the dust in the trash. We also discussed the management of the universal waste filters Municipal dumpster area does not contain any hazardous waste. The perimeter of the [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-03-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site to conduct a follow-up Hazardous Waste inspection. I met with Patrick Watchara and he provided a tour of the facility. The facility

TRUE POSITION DIE CO (Continued) **S113120480**

has removed the metals dust from the machines and floor and begun placing the dust in with the used EDM Filters. The excess EDM filters and the drum of EDM filters were removed and a copy of the disposal record was availble for review. Violations I663 and I053 are abated. Thank you

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-31-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: NOV written
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-01-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: NOV sent to Christine Lane for review.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-06-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed the facilityG s CERS (California Environmental Reporting System) HMBEP (Hazardous Materials Disclosure and Business Emergency Plan) submission. Facility Information and Emergency Response and Training Plans have been accepted. Hazardous Materials Inventory and Site Map have been DECLINED. Please edit your hazardous materials inventory to show average daily amounts, largest container sizes, CAS #G s, and fire hazard classes, storage pressures and temperatures for ALL of your disclosed materials. Please create and upload an annotated site map which includes the following information: north orientation, loading areas and internal roads if applicable, adjacent streets, storm drains and sewers, access and exit points, emergency gas/water/electric shutoffs, evacuation staging areas, hazardous material storage and handling areas, and emergency response equipment (fire extinguishers and hydrants). Violations for the inventory and site map have been issued. Please [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-13-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed facility’s CERS HMBEP Submission. Hazardous Materials Inventory and Site Map declined again. Hazmat inventory still inaccurate and site map is not legible. Emailed Sue Lao to provide

TRUE POSITION DIE CO (Continued) **S113120480**

further instruction.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-31-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed facility's CERS HMBEP Submission. The facility has made required changes to their hazardous materials inventory and site map. Violations have been corrected this date.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Somrudee Laohavanich
Entity Title: Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Somrudee Laohavanich
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Somrudee Laohavanich
Entity Title: Not reported
Affiliation Address: 5480 Katella Ave #204
Affiliation City: Los Alamitos
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90720
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: True Position Die Co.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (562) 493-6109

TRUE POSITION DIE CO (Continued) **S113120480**

Affiliation Type Desc: Parent Corporation
Entity Name: TRUE POSITION DIE CO
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6406

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 5480 Katella Ave STE 204
Affiliation City: Los Alamitos
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90720
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: TATPONG KHAYIM and JANSUDA WATCHARAYON
Entity Title: Not reported
Affiliation Address: 5480 Katella Ave STE 204
Affiliation City: Los Alamitos
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90720
Affiliation Phone: (562) 773-0762

HWTS:
Name: TRUE POSITION DIE COMPANY
Address: 5480 KATELLA AVE
Address 2: Not reported
City,State,Zip: LOS ALAMITOS, CA 907200000
EPA ID: CAL000254946
Inactive Date: Not reported
Create Date: 07/01/2002
Last Act Date: 07/20/2020
Mailing Name: Not reported
Mailing Address: 5480 KATELLA AVE # 204
Mailing Address 2: Not reported
Mailing City,State,Zip: LOS ALAMITOS, CA 907200000
Owner Name: TERASAK LAOHAVANICH
Owner Address: 5480 KATELLA AVE #204
Owner Address 2: Not reported

TRUE POSITION DIE CO (Continued) **S113120480**

Owner City,State,Zip: LOS ALAMITOS, CA 907206822
Contact Name: TATPONG KHAYIM
Contact Address: 5480 KATELLA AVE STE #204
Contact Address 2: Not reported
City,State,Zip: LOS ALAMITOS, CA 90720

NAICS:
EPA ID: CAL000254946
Create Date: 2003-10-24 07:19:00.000
NAICS Code: 333512
NAICS Description: Machine Tool (Metal Cutting Types) Manufacturing
Issued EPA ID Date: 2002-07-01 13:56:54.31000
Inactive Date: Not reported
Facility Name: TRUE POSITION DIE COMPANY
Facility Address: 5480 KATELLA AVE
Facility Address 2: Not reported
Facility City: LOS ALAMITOS
Facility County: Not reported
Facility State: CA
Facility Zip: 907200000

EPA ID: CAL000254946
Create Date: 2002-07-01 14:02:23.047
NAICS Code: 333513
NAICS Description: Machine Tool (Metal Forming Types) Manufacturing
Issued EPA ID Date: 2002-07-01 13:56:54.31000
Inactive Date: Not reported
Facility Name: TRUE POSITION DIE COMPANY
Facility Address: 5480 KATELLA AVE
Facility Address 2: Not reported
Facility City: LOS ALAMITOS
Facility County: Not reported
Facility State: CA
Facility Zip: 907200000

EPA ID: CAL000254946
Create Date: 2002-07-01 13:56:54.343
NAICS Code: 999999
NAICS Description: Not Otherwise Specified
Issued EPA ID Date: 2002-07-01 13:56:54.31000
Inactive Date: Not reported
Facility Name: TRUE POSITION DIE COMPANY
Facility Address: 5480 KATELLA AVE
Facility Address 2: Not reported
Facility City: LOS ALAMITOS
Facility County: Not reported
Facility State: CA
Facility Zip: 907200000

P57 **D'ANDREA VISUAL COMMUNICATIONS** **CERS HAZ WASTE** **S118224691**
ENE **6100 GATEWAY DR** **CERS** **N/A**
1/8-1/4 **CYPRESS, CA 90630**
0.156 mi.
823 ft. **Site 1 of 2 in cluster P**

Relative:
Higher

Actual:
42 ft.

CERS HAZ WASTE:
Name: D'ANDREA VISUAL COMMUNICATIONS
Address: 6100 GATEWAY DR
City,State,Zip: CYPRESS, CA 90630
Site ID: 360118
CERS ID: 10648738
CERS Description: Hazardous Waste Generator

CERS:
Name: D'ANDREA VISUAL COMMUNICATIONS
Address: 6100 GATEWAY DR
City,State,Zip: CYPRESS, CA 90630
Site ID: 360118
CERS ID: 10648738
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 360118
Site Name: D'Andrea Visual Communications
Violation Date: 01-09-2019
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 inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 05/09/2019. OBSERVATION: There are reportable chemicals on site that were not previously reported during previous HMBP submittals. CORRECTIVE ACTION: Update the chemical inventory on CERS and submit online within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 360118
Site Name: D'Andrea Visual Communications
Violation Date: 01-09-2019
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes: Returned to compliance on 05/09/2019. OBSERVATION: Hazardous Waste manifests from 10/2018-12/2018 were not available for review at the time of inspection. CORRECTIVE ACTION: Provide copies of the most recent hazardous waste manifests to this Agency within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 360118
Site Name: D'Andrea Visual Communications

D'ANDREA VISUAL COMMUNICATIONS (Continued) **S118224691**

Violation Date:	01-09-2019
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:	OBSERVATION: Employee training records were not available for review. New employees must be trained within 6 months of hire and all employees trained annually on the safe handling of hazardous materials on site and on the Emergency Response Plan. CORRECTIVE ACTION: Conduct training and submit documentation to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	360118
Site Name:	D'Andrea Visual Communications
Violation Date:	01-09-2019
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 05/09/2019. OBSERVATION: The Hazardous Materials Business Plan (HMBP) was last submitted in 2016. The HMBP must be submitted through the California Environmental Reporting System (CERS) by March 1st of every year. The 2017 and 2018 deadlines have been missed. CORRECTIVE ACTION: Review and electronically submit an updated HMBP through CERS within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	360118
Site Name:	D'Andrea Visual Communications
Violation Date:	01-09-2019
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 a site map with all required content.
Violation Notes:	Returned to compliance on 02/06/2019. OBSERVATION: Site map is missing the following elements - loading areas, internal roads and adjacent streets. CORRECTIVE ACTION: Ensure that these missing elements are added to the site map and re-submit on CERS within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-08-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HW

D'ANDREA VISUAL COMMUNICATIONS (Continued) **S118224691**

Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-08-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine Hazardous Materials Business Plan (HMBP) inspection. Observed the following hazardous materials on site which meet or exceed the reporting threshold amounts (all sizes are approximate): - 3 x 55 gal drums of waste ink (total of 165 gal) - 1 x 55 gal of E-Cure 132C - 14 x 8 gal cylinders of propane (total of 112 gal) - 1 x 55 gal of E-Cure 169 Per California Health & Safety Code Ch. 6.95, businesses that store and handle hazardous materials which meet or exceed the reporting threshold amounts (55 gal of a liquid, 500 lbs of a solid, 200 cubic ft of a compressed gas) must prepare and implement an HMBP. The HMBP must include the following elements: - Business Activities - Owner/Operator Information - Chemical Inventory - Site Map - Emergency Response Plan/Training Plan The HMBP must be submitted online through the California Environmental Reporting System (CERS) by March 1st of every year. The facility is responsible for identifying [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-23-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following documentation submitted to CERS on 2/6/2019 has been reviewed and ACCEPTED: - Business Activities - Business Owner/Operator Identification - Site Map - Emergency Contingency Plan/Training Records Violation I632 has been corrected. The following violations cited on 1/9/2019 remain outstanding and must be corrected immediately: - I169: Failure to complete and electronically submit hazardous material inventory forms information for all reportable hazardous materials on site at or above reportable quantities. - I239: 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. - I463: Failure to annually review and electronically submit the business plan on or before the annual due date and certify that it is complete, accurate, and in compliance with EPCRA. Please [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-09-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following documentation submitted to CERS on 5/9/2019 has been reviewed and ACCEPTED: - Business Activities - Business Owner/Operator Identification - Hazardous Materials Inventory - Site Map - Emergency Contingency Plan/Training Records Violations I463 and I169 have been corrected. Violation I239 remains outstanding and must be corrected

D'ANDREA VISUAL COMMUNICATIONS (Continued) **S118224691**

	immediately. Please submit employee training records covering topics related to the Hazardous Materials Business Plan to this Agency within 14 days. REMINDER: Please re-submit your HMBEP annually between January 1st G March 1st http://cers.calepa.ca.gov/.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-09-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received copies of the hazardous waste manifests for wastes hauled between October 2018 through December 2018 which were originally not available for review during the inspection conducted on 1/8/2019. The following violation has been closed: - I474: Signed copy of Uniform Hazardous Waste Manifest kept for 3 years
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	360118
Facility Name:	D'Andrea Visual Communications
Env Int Type Code:	HWG
Program ID:	10648738
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.807200
Longitude:	-118.026040

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	6100 Gateway Dr.
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Warland Investments
Entity Title:	Not reported
Affiliation Address:	11155 Knott Ave, Suite J

D'ANDREA VISUAL COMMUNICATIONS (Continued) **S118224691**

Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(714) 895-5908
Affiliation Type Desc:	Document Preparer
Entity Name:	Carson Ladd
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Carson Ladd
Entity Title:	VP of Operations
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	D'Andrea Visual Communications
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Carson Ladd
Entity Title:	Not reported
Affiliation Address:	6100 GATEWAY DR
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92602
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	David D'Andrea
Entity Title:	Not reported
Affiliation Address:	6100 Gateway Dr.
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(714) 947-8444
Affiliation Type Desc:	Operator

D'ANDREA VISUAL COMMUNICATIONS (Continued) **S118224691**

Entity Name:	David D'Andrea
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 947-8444

P58 **D'ANDREA VISUAL COMMUNICATIONS** **RCRA NonGen / NLR** **1025869200**
ENE **6100 GATEWAY DR** **CAL000401551**
1/8-1/4 **CYPRESS, CA 90630**
0.156 mi.
823 ft. **Site 2 of 2 in cluster P**

Relative: **Higher**

Actual: **42 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2014-10-24 00:00:00.0
Handler Name:	D'ANDREA VISUAL COMMUNICATIONS
Handler Address:	6100 GATEWAY DR
Handler City,State,Zip:	CYPRESS, CA 90630
EPA ID:	CAL000401551
Contact Name:	PAT SPENCER
Contact Address:	6100 GATEWAY DR
Contact City,State,Zip:	CYPRESS, CA 90630
Contact Telephone:	714-947-8444
Contact Fax:	Not reported
Contact Email:	PSPENCER@DANDREAVISUAL.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:	6100 GATEWAY DR
Mailing City,State,Zip:	CYPRESS, CA 90630
Owner Name:	DAVID D'ANDREA
Owner Type:	Other
Operator Name:	PAT SPENCER
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

D'ANDREA VISUAL COMMUNICATIONS (Continued) **1025869200**

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:	2019-06-28 17:06:57.0
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:	DAVID D'ANDREA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6100 GATEWAY DR
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-947-8444
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator

D'ANDREA VISUAL COMMUNICATIONS (Continued) **1025869200**

Owner/Operator Name:	PAT SPENCER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6100 GATEWAY DR
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-947-8444
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2014-10-24 00:00:00.0
Handler Name:	D'ANDREA VISUAL COMMUNICATIONS
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	Not reported
Recognized Trader Exporter:	Not reported
Spent Lead Acid Battery Importer:	Not reported
Spent Lead Acid Battery Exporter:	Not reported
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

M59 **HIGHLINE EUROPEAN MOTORCARS** **CERS HAZ WASTE** **S113062400**
NW **10562 WALKER ST** **HAZNET** **N/A**
1/8-1/4 **CYPRESS, CA 90630** **CERS**
0.163 mi. **HWTS**
863 ft. **Site 3 of 4 in cluster M**

Relative: **Lower**
Actual: **37 ft.**

CERS HAZ WASTE:

Name:	HIGHLINE EUROPEAN MOTORCARS
Address:	10562 WALKER ST
City,State,Zip:	CYPRESS, CA 90630
Site ID:	411456
CERS ID:	10521625
CERS Description:	Hazardous Waste Generator

HAZNET:

Name:	HIGHLINE EUROPEAN MOTORCARS INC
Address:	10562 WALKER ST
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000

HIGHLINE EUROPEAN MOTORCARS (Continued) **S113062400**

Contact:	GIL HOVAV
Telephone:	7148278850
Mailing Name:	Not reported
Mailing Address:	10562 WALKER ST
Year:	1996
Gepaid:	CAL000109991
TSD EPA ID:	CAL000113451
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	H01 - Transfer Station
Tons:	0.187
Year:	1995
Gepaid:	CAL000109991
TSD EPA ID:	CAT080013352
CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	R01 - Recycler
Tons:	0.357
Year:	1995
Gepaid:	CAL000109991
TSD EPA ID:	CAL000113451
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	H01 - Transfer Station
Tons:	0.136

Additional Info:

Year:	1996
Gen EPA ID:	CAL000109991
Shipment Date:	19960325
Creation Date:	10/16/1996 0:00:00
Receipt Date:	19960327
Manifest ID:	95798211
Trans EPA ID:	CAD981694664
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000113451
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

HIGHLINE EUROPEAN MOTORCARS (Continued) **S113062400**

Year:	1995
Gen EPA ID:	CAL000109991
Shipment Date:	19951018
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951019
Manifest ID:	95320773
Trans EPA ID:	CAD981694664
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000113451
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.136
Waste Quantity:	40
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19950307
Creation Date:	3/29/1996 0:00:00
Receipt Date:	19950308
Manifest ID:	93342963
Trans EPA ID:	CAD981373665
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.357
Waste Quantity:	85
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	HIGHLINE EUROPEAN MOTORCARS
Address:	10562 WALKER ST
City,State,Zip:	CYPRESS, CA 90630
Site ID:	411456
CERS ID:	10521625

HIGHLINE EUROPEAN MOTORCARS (Continued) **S113062400**

CERS Description: Chemical Storage Facilities

Violations:

Site ID: 411456
Site Name: HIGHLINE EUROPEAN MOTORCARS
Violation Date: 08-24-2017
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 08/31/2017. The CERS hazardous Materials inventory was missing the Super Blue Industrial Cleaner and the motor oil (5W-10). All liquid hazardous substances stored at or above 55 gallons must be disclosed in the CERS electronic reporting submission. The inventory was updated with the Cleaner and the motor oil during this inspection.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 411456
Site Name: HIGHLINE EUROPEAN MOTORCARS
Violation Date: 04-09-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to 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 05/10/2020. The facility failed to submit the Hazardous Materials Business Emergency plan before the deadline of March 1, 2020. Corrective action: Within 30 days, notify this Agency that the plan has been submitted on CERS.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 411456
Site Name: HIGHLINE EUROPEAN MOTORCARS
Violation Date: 08-06-2014
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to maintain uniform hazardous waste manifest, consolidated manifest, or bills of lading copies for three years.
Violation Notes: Returned to compliance on 10/05/2014. Please send me copies of a full years worth of waste manifests. Once received, this violation will be abated. A copy can be sent to my email at mescobedo@ochca.com.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 411456
Site Name: HIGHLINE EUROPEAN MOTORCARS
Violation Date: 08-06-2014
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

HIGHLINE EUROPEAN MOTORCARS (Continued) **S113062400**

	quantities.
Violation Notes:	Returned to compliance on 10/05/2014. The HMBEP must be prepared and submitted within 30 days from receipt of this report. Please go to www.esubmit.ocgov.com and request a username and password. Once your credentials are received, log in, complete, and submit all necessary information within 30 days from receipt of this report.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	411456
Site Name:	HIGHLINE EUROPEAN MOTORCARS
Violation Date:	09-23-2016
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 08/24/2017. Please correct this violation within 30 days on the CERS database.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	411456
Site Name:	HIGHLINE EUROPEAN MOTORCARS
Violation Date:	08-24-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 08/24/2017. The hazardous waste labels on the waste oil and the waste antifreeze container was missing the name and address, the hazardous property, physical state, composition and accumulation start date. All hazardous waste containers shall be marked with the following information: 1) the words G Hazardous WasteG ; 2) name and address of generator; 3) hazardous properties; 4) physical state; 5) composition (contents); 6) accumulation start date. Immediately label these containers and ensure that all hazardous waste containers are marked with all the required information. The containers were labeled properly during this inspection. Violation I400 is corrected.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	411456
Site Name:	HIGHLINE EUROPEAN MOTORCARS
Violation Date:	09-24-2019
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical

HIGHLINE EUROPEAN MOTORCARS (Continued) **S113062400**

	characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 09/24/2019. OBSERVATION: Hazardous waste label for waste oil drums did not have the hazardous characteristic indicated and the hazardous waste label for the waste antifreeze drum did not have the content, hazardous characteristic and physical state. CORRECTIVE ACTION: Labeling issues were corrected on site by operator at the time of inspection.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	411456
Site Name:	HIGHLINE EUROPEAN MOTORCARS
Violation Date:	08-24-2017
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 business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/24/2017.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	04-09-2020
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The facility has failed to submit the Hazardous Materials Business Emergency Plan by the deadline March 1, 2020. To correct the violation log on to CERS and submit the business plan for the year 2020. A copy of this report was sent to nicholas.chekmizoff@gmail.com.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-11-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following documents have been reviewed and ACCEPTED on CERS: -Business Activities -Business Owner/Operator -Chemical Inventory -Facility Site Map -Emergency Response & Training Plans The following violation has been corrected: - I463: Failure to annually review and electronically submit the business plan on or before the annual due date and certify that it is complete, accurate, and in compliance The facility has no outstanding violations. REMINDER: Please re-submit your HMBEP annually between January 1st G March 1st.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-04-2014
Violations Found:	No

HIGHLINE EUROPEAN MOTORCARS (Continued) **S113062400**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP APproved.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-04-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Denied.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-11-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct an annual routine Hazardous Waste Inspection. Met with Gill who explained the process and escorted me through the site. Facility contains: waste oil, antifreeze and oil filters Hazardous waste containers are properly labeled and covered. All containers storing hazardous waste must be labeled with the following information: 1. The words G HAZARDOUS WasteG 2. Waste (name) 3. Hazardous property of the waste (e.g. G toxic, flammable, corrosive, etc.) 4. Physical state of the waste (liquid or solid) 5. Name and address of the business. 6. Accumulation date (date the first drop of waste has been placed in container) Documents Available for review: 1. Hazardous waste Manifest/Receipts (keep a copy on site for three years). - Note: A copy of the federal manifest must be sent to DTSC. (Department of Toxic Substances Control, P.O. Box 400, Sacramento, CA 95812-0400). 2. Hazardous Waste Emergency Response information.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-06-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On Site this date to verify owner has changed Gil Hovav to Nicholas Chekmizoff. An RUR will be submitted to reflect change.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-06-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Highline European Motorcars 10562 Walker St Cypress, 90630 On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Met with facility owner Nick Chekmizoff, who provided consent to enter and inspect the facility. A walk through of the facility has verified (5) different chemicals above threshold quantities. Used Oil - max volume= 220 gallons Waste Antifreeze - Max

HIGHLINE EUROPEAN MOTORCARS (Continued) **S113062400**

volume = 55 gallons New Oil 5W-40 - Max Volume = 110 gallons Industrial cleaner - Max volume = 55 gallons R-134 A - max volume = 315 cubic feet. To date, the facility has not prepared or submitted a hazardous materials business emergency plan via the Orange County E-Submit portal (See violations U112 above). Visit www.esubmit.ocgov.com and request a username and password. Once your credentials are received, log in and complete the HMBEP. Facility has 30-days to submit a hazardous materials business emergency plan on the Orange County e-submit portal.

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-06-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Highline European Motorcars 10562 Walker St Cypress, 90630 On site to conduct a routine hazardous waste inspection. Met with facility owner Nicholas Chekmizoff, who gave consent to enter and inspect the facility. Hazardous waste observed on site include: - (4) 55-gallon drums containing waste motor oil, (1) 55-gallon drum containing waste antifreeze, and (1) 55-gallon drum containing used oil filters. All containers were labeled and properly closed. Hazardous waste manifests were not available for review (see violation I474 above). Perimeter of the facility and the municipal dumpster was inspected. Did not observe any indication of a hazardous waste release or illegal dumping along the perimeter of the facility. The Hazardous Waste Emergency Response information was posted in the facility.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-07-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: RUR.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-24-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Consent to inspect was provided by Nicholas Chekmizoff. A walk through of the facility was conducted. The following Hazardous Substances were observed being stored at above the reporting threshold: HM - Super Blue Industrial Cleaner (55 gl) - Motor Oil HW - Waste oil - Waste Antifreeze This facility is responsible for identifying all hazardous materials and hazardous wastes, which are above the following disclosure thresholds: Solids > 500 pounds. Liquids > or = 55 gallons Gas > or = 200 cubic feet NOTE: The Super Blue Industrial Cleaner and the Motor Oil (5W 40) must be added to the CERS Hazardous Materials Inventory Disclosure (see

HIGHLINE EUROPEAN MOTORCARS (Continued) **S113062400**

violation). Also the CERS account was previously completed in the E Submit Portal and this agency has transfered the HMBEP information to CERS. We created an account in CERS today at http://cers.calepa.ca.gov/. The new submittal was [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-24-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. Consent to inspect and take photos at the facility was provided by Nicholas Chekmizoff. The hazardous waste labels were missing the required hazardous waste information (see violation). Municipal dumpster area does not contain any hazardous waste. The perimeter of the facility was also inspected; no signs of releases were noted. Emergency Response Information was complete. Hazardous waste containers were properly covered. Reviewed manifests, bills of lading and consolidated manifests for all hazardous waste streams. For further information about Hazardous Waste management, please refer to the Orange County CUPA website at www.occupainfo.com and open the PDF G Hazardous Waste the BasicsG .
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-31-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed the facility's CERS HMBEP Submission. All submittal elements have been accepted this date - left a comment for Emergency Response and Training Plan to update contingency plan.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-05-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This is an in-office inspection report. The facility has updated the CERS information. Violation I463 is corrected. Violation I292 was corrected on 8-31 -17 when the CERS review was conducted. Violation I169 was corrected on 8-31-17 when the CERS review was conducted. No outstanding Hazardous Materials Business Emergency Plan violations remain. Thank you for updating the CERS information. Remember to resubmit by 1-1-18.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-23-2016
Violations Found: Yes

HIGHLINE EUROPEAN MOTORCARS (Continued) **S113062400**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS: On site for a routine inspection. Met with Nick Chekmizoff and obtained consent The annual certification of the HMBP was not completed in 2015 and 2016. See the violation above.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-24-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine Hazardous Materials Business Plan (HMBP) inspection. Observed the following hazardous materials on site in reportable quantities (all sizes are approximate): - 3 x 55 gal drums of waste oil (165 gal total) - 1 x 55 gal drum of waste antifreeze - 1 x 55 gal of Super Blue industrial cleaner Per California Health & Safety Code Ch. 6.95, businesses that store and handle hazardous materials at or over reportable quantities (55 gal of a liquid, 500 lbs of a solid, 200 cubic ft of a compressed gas) must prepare and implement an HMBP. The HMBP must include the following elements: - Business Activities - Owner/Operator Information - Chemical Inventory - Site Map - Emergency Response Plan/Training Plan The HMBP must be submitted online through the California Environmental Reporting System (CERS) by March 1st of every year. The facility is responsible for identifying all hazardous materials, including hazardous wastes, which are at or above [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-24-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct hazardous waste inspection. Walked the interior and exterior areas of the facility. Observed hazardous waste storage area and containers. Contingency Plan and hazardous waste manifests were available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Enforcement Action:

Site ID:	411456
Site Name:	HIGHLINE EUROPEAN MOTORCARS
Site Address:	10562 WALKER ST
Site City:	CYPRESS
Site Zip:	90630
Enf Action Date:	02-11-2016
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:	Failure to electronically submit HMD/BEP.
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	UNSPEC
Enf Action Source:	CERS

HIGHLINE EUROPEAN MOTORCARS (Continued) **S113062400**

Coordinates:

Site ID:	411456
Facility Name:	HIGHLINE EUROPEAN MOTORCARS
Env Int Type Code:	HMBP
Program ID:	10521625
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.808910
Longitude:	-118.036500

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Nicholas Chekmizoff
Entity Title:	Not reported
Affiliation Address:	10562 WALKER ST
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	HIGHLINE EUROPEAN MOTORCARS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406

Affiliation Type Desc:	Document Preparer
Entity Name:	same
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	10562 WALKER ST
Affiliation City:	CYPRESS

HIGHLINE EUROPEAN MOTORCARS (Continued) **S113062400**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Nicholas Chekmizoff
Entity Title:	Managing Member
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Nicholas Chekmizoff
Entity Title:	Not reported
Affiliation Address:	10562 WALKER ST
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(714) 350-6060
Affiliation Type Desc:	Operator
Entity Name:	Highline European Motorcars LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 350-6060

HWTS:

Name:	HIGHLINE EUROPEAN MOTORCARS INC
Address:	10562 WALKER ST
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
EPA ID:	CAL000109991
Inactive Date:	06/30/2014
Create Date:	01/19/1993
Last Act Date:	11/14/2014
Mailing Name:	Not reported
Mailing Address:	10562 WALKER ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CYPRESS, CA 906300000
Owner Name:	HIGHLINE EUROPEAN MTRCARS
Owner Address:	10562 WALKER ST
Owner Address 2:	Not reported
Owner City,State,Zip:	CYPRESS, CA 906300000
Contact Name:	GIL HOVAV
Contact Address:	10562 WALKER ST
Contact Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 000000000

HIGHLINE EUROPEAN MOTORCARS (Continued) **S113062400**

NAICS:

EPA ID:	CAL000109991
Create Date:	2002-03-14 16:36:28.000
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	1993-01-19 00:00:00
Inactive Date:	2014-06-30 00:00:00
Facility Name:	HIGHLINE EUROPEAN MOTORCARS INC
Facility Address:	10562 WALKER ST
Facility Address 2:	Not reported
Facility City:	CYPRESS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	906300000

M60 **HIGHLINE EUROPEAN MOTORCARS** **RCRA NonGen / NLR** **1025875461**
NW **10562 WALKER ST** **CAL000448595**
1/8-1/4 **CYPRESS, CA 90630**
0.163 mi.
863 ft. **Site 4 of 4 in cluster M**

Relative: **Lower**

Actual: **37 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2019-08-30 00:00:00.0
Handler Name:	HIGHLINE EUROPEAN MOTORCARS
Handler Address:	10562 WALKER ST
Handler City,State,Zip:	CYPRESS, CA 90630
EPA ID:	CAL000448595
Contact Name:	NICHOLAS CHEKMIZOFF
Contact Address:	10562 WALKER ST
Contact City,State,Zip:	CYPRESS, CA 90630
Contact Telephone:	714-827-8850
Contact Fax:	714-827-8897
Contact Email:	NICK@HIGHLINEMOTORCARS.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:	10562 WALKER ST
Mailing City,State,Zip:	CYPRESS, CA 90630
Owner Name:	HIGHLINE EUROPEAN MOTORCARS LLC
Owner Type:	Other
Operator Name:	NICHOLAS CHEKMIZOFF
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

HIGHLINE EUROPEAN MOTORCARS (Continued) **1025875461**

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:	2019-09-10 12:41:10.0
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:	HIGHLINE EUROPEAN MOTORCARS LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	10562 WALKER ST

HIGHLINE EUROPEAN MOTORCARS (Continued) **1025875461**

Owner/Operator City,State,Zip: CYPRESS, CA 90630
Owner/Operator Telephone: 714-827-8850
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NICHOLAS CHEKMIZOFF
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 10562 WALKER ST
Owner/Operator City,State,Zip: CYPRESS, CA 90630
Owner/Operator Telephone: 714-827-8850
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2019-08-30 00:00:00.0
Handler Name: HIGHLINE EUROPEAN MOTORCARS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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61 **KAYABA CORP** **RCRA-SQG** **1004676965**
SSE **5790 KATELLA AVE** **FINDS** **CAR000091660**
1/8-1/4 **CYPRESS, CA 90630** **ECHO**
0.167 mi.
881 ft.

Relative: **Lower**
Actual: **37 ft.**

RCRA-SQG:
Date Form Received by Agency: 2001-02-09 00:00:00.0
Handler Name: KAYABA CORP
Handler Address: 5790 KATELLA AVE
Handler City,State,Zip: CYPRESS, CA 90630
EPA ID: CAR000091660
Contact Name: GLORIA ARELLANO

KAYABA CORP (Continued) **1004676965**

Contact Address:	5790 KATELLA AVE
Contact City,State,Zip:	CYPRESS, CA 90630
Contact Telephone:	714-897-9005
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	5790 KATELLA AVE
Mailing City,State,Zip:	CYPRESS, CA 90630
Owner Name:	KAYABA CORP
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

KAYABA CORP (Continued) **1004676965**

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:	2002-10-07 16:36:29.0
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:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D039
Waste Description:	TETRACHLOROETHYLENE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	KAYABA CORP
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5790 KATELLA AVE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-897-9005
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2001-02-09 00:00:00.0
Handler Name: KAYABA CORP	
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

KAYABA CORP (Continued) **1004676965**

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: 110012198264

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1004676965
Registry ID: 110012198264
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110012198264
Name: KAYABA CORP
Address: 5790 KATELLA AVE
City,State,Zip: CYPRESS, CA 90630

Q62 **CHRISTIE DIGITAL SYSTEMS USA INC** **RCRA-SQG** **1000886213**
NNE **10550 CAMDEN DR** **FINDS** **CA0000133512**
1/8-1/4 **CYPRESS, CA 90630** **ECHO**
0.173 mi.
913 ft. **Site 1 of 4 in cluster Q**

Relative:
Higher

Actual:
40 ft.

RCRA-SQG:
Date Form Received by Agency: 2007-06-11 00:00:00.0
Handler Name: CHRISTIE DIGITAL SYSTEMS USA INC
Handler Address: 10550 CAMDEN DR
Handler City,State,Zip: CYPRESS, CA 90630
EPA ID: CA0000133512
Contact Name: FLOYD HORTON
Contact Address: 10550 CAMDEN DR
Contact City,State,Zip: CYPRESS, CA 90630
Contact Telephone: 714-715-6075
Contact Fax: Not reported
Contact Email: FLOYD.HORTON@CHRISTIEDIGITAL.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Private
Federal Waste Generator Description: Small Quantity Generator
Non-Notifier: Not reported

CHRISTIE DIGITAL SYSTEMS USA INC (Continued) **1000886213**

Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	CAMDEN DR
Mailing City,State,Zip:	CYPRESS, CA 90630
Owner Name:	USHIO AMERICA INC
Owner Type:	Private
Operator Name:	CHRISTIE DIGITAL SYSTEMS USA INC
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:	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

CHRISTIE DIGITAL SYSTEMS USA INC (Continued) **1000886213**

Financial Assurance Required:	Not reported
Handler Date of Last Change:	2007-06-25 18:26:29.0
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

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D010
Waste Description:	SELENIUM
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 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.

CHRISTIE DIGITAL SYSTEMS USA INC (Continued) **1000886213**

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:	USHIO INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1194 BESSHOCHO SAZUCHI
Owner/Operator City,State,Zip:	HIMEJI CITY HYOGO
Owner/Operator Telephone:	32425121
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	USHIO AMERICA INC
Legal Status:	Private
Date Became Current:	1990-09-12 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	5440 CERRITOS AVE
Owner/Operator City,State,Zip:	CYPRESS, CA 92630
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CHRISTIE DIGITAL SYSTEMS USA INC
Legal Status:	Private
Date Became Current:	2000-12-18 00:00:00.
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

Historic Generators:

Receive Date:	1994-02-11 00:00:00.0
Handler Name: USHIO AMERICA INC	
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

CHRISTIE DIGITAL SYSTEMS USA INC (Continued) **1000886213**

Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2007-06-11 00:00:00.0
Handler Name: CHRISTIE DIGITAL SYSTEMS USA INC
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: 333315
NAICS Description: PHOTOGRAPHIC AND PHOTOCOPYING EQUIPMENT MANUFACTURING

NAICS Code: 339999
NAICS Description: ALL OTHER MISCELLANEOUS MANUFACTURING

NAICS Code: 71399
NAICS Description: ALL OTHER AMUSEMENT AND RECREATION INDUSTRIES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002613422

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
SSTS (Section Seven Tracking System) evolved from the FIFRA and TSCA Enforcement System (FATES). SSTS tracks the registration of all pesticide-producing establishments and tracks annually the types and amounts of pesticides, active ingredients, and related devices that are produced, sold, or distributed each year.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

CHRISTIE DIGITAL SYSTEMS USA INC (Continued) **1000886213**

Envid:	1000886213
Registry ID:	110002613422
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002613422
Name:	CHRISTIE DIGITAL SYSTEMS USA INC
Address:	10550 CAMDEN DR
City,State,Zip:	CYPRESS, CA 90630

Q63 **CHRISTIE DIGITAL SYSTEMS USA INC** **CERS HAZ WASTE** **S112937042**
NNE **10550 CAMDEN DR** **CERS** **N/A**
1/8-1/4 **CYPRESS, CA 90630**
0.173 mi.
913 ft. **Site 2 of 4 in cluster Q**

Relative: Higher

Actual: 40 ft.

CERS HAZ WASTE:

Name:	CHRISTIE DIGITAL SYSTEMS USA INC
Address:	10550 CAMDEN DR
City,State,Zip:	CYPRESS, CA 90630
Site ID:	410956
CERS ID:	10558804
CERS Description:	Hazardous Waste Generator

CERS:

Name:	CHRISTIE DIGITAL SYSTEMS USA INC
Address:	10550 CAMDEN DR
City,State,Zip:	CYPRESS, CA 90630
Site ID:	410956
CERS ID:	10558804
CERS Description:	Chemical Storage Facilities

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	02-14-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Denied. Reviewed HMBEP submission package on eSubmit Portal. Submission DENIED. Request for re-submittal.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-24-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Denied.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	06-23-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed facility's CERS HMBEP Submission. Hazardous Materials Inventory and Emergency Response & Training Plan accepted. Facility Information not accepted. Since the business is incorporated, under the ownership please edit from Christie Digital Systems to Christie Digital Systems USA Inc. RUR submitted to correct ownership in EC.

CHRISTIE DIGITAL SYSTEMS USA INC (Continued) **S112937042**

Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-27-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	7/27/16 Your submission has been reviewed and accepted. Thank you
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-18-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed HMBEP submission package on E-Submit Portal, DENIED. Request for resubmittal this date.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-20-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Contact is on vacation.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-20-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Approval. The following documents were received and ACCEPTED on the eSubmit Portal: Business Activities Form Business Owner/Operator Form Chemical Inventory for 2 chemicals. Facility Site Map
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-26-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Met with environmental manager Pamela Lothman, who provided consent to conduct inspection activities. Christie Digital Systems has disclosed their chemicals stored on site into the e-submit portal database. A walk through of the facility has verified eighteen (2) different chemicals above threshold quantities. After a review of the HMBEP submission, the following need to be corrected: Chemical Disclosure: - Diesel (pure) - max vol.= 660 gallons Facility Map: - Add the 2nd generator and diesel tank, and add the hazardous waste storage location. Within 30 days, if facility decides to discontinue

CHRISTIE DIGITAL SYSTEMS USA INC (Continued) **S112937042**

any of the above chemicals, proper disposal or removal of chemicals is required and maintenance of disposal records will be verified. In addition, the HMBEP will also need to be updated. An inspection will be conducted to verify hazardous material is no longer stored on and [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-26-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. Met with Pamela Lothman, who gave consent to enter and inspect the facility. Hazardous waste observed on site include: - Waste absorbent containing battery acid and Universal waste including aerosols, batteries, and fluorescent bulbs. All containers were labeled and properly closed. Hazardous waste manifests for all hazardous waste streams were available for review. Perimeter of the facility and the municipal dumpster was inspected. Did not observe any indication of a hazardous waste release or illegal dumping along the perimeter of the facility. The Hazardous Waste Emergency Response information was available in the facility.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-20-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Consent to inspect and take photos was provided by Pamela Lothman. A walk through of the facility was conducted. The following Hazardous Substances were observed being stored at above the reporting threshold: HM - Diesel - Lead Acid Batteries This facility is responsible for identifying all hazardous materials and hazardous wastes, which are above the following disclosure thresholds: Solids > 500 pounds. Liquids > or = 55 gallons Gas > or = 200 cubic feet Site map is available for review. Employee training is available for review. Ensure the HMBEP is resubmitted by March 1st every year.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-20-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. Consent to inspect and take photos at the facility was provided by Pamela Lothman. Municipal dumpster area does not contain any hazardous waste. The perimeter of the facility was also inspected; no signs of releases were noted. Emergency Response Information was complete. Hazardous waste containers were properly labeled and covered. Reviewed manifests, bills of lading and consolidated manifests for all

CHRISTIE DIGITAL SYSTEMS USA INC (Continued) **S112937042**

hazardous waste streams. For further information about Hazardous Waste management, please refer to the Orange County CUPA website at www.occupainfo.com and open the PDF G Hazardous Waste the BasicsG . No hazardous waste violations noted today.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-24-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBEP submission in review.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 410956
Facility Name: CHRISTIE DIGITAL SYSTEMS USA INC
Env Int Type Code: HMBP
Program ID: 10558804
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.809240
Longitude: -118.030500

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6406

Affiliation Type Desc: Legal Owner
Entity Name: Christie Digital Systems USA, Inc.
Entity Title: Not reported
Affiliation Address: 10550 CAMDEN DR
Affiliation City: CYPRESS
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90630
Affiliation Phone: (714) 236-8610

Affiliation Type Desc: Document Preparer
Entity Name: Pamela A Lothman
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported

CHRISTIE DIGITAL SYSTEMS USA INC (Continued) **S112937042**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Christie Digital Systems USA, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 236-8610
Affiliation Type Desc:	Parent Corporation
Entity Name:	CHRISTIE DIGITAL SYSTEMS USA INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Pamela A Lothman
Entity Title:	Not reported
Affiliation Address:	10550 Camden Drive
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	10550 CAMDEN DR
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Pamela A Lothman
Entity Title:	Sr. Mgr Corporate Governance and Compliance
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

64
SSW
1/8-1/4
0.190 mi.
1004 ft.

F C I USA INC
5700 WARLAND DR
CYPRESS, CA 90630

RCRA-SQG
HAZNET
HWTS

1004678453
CAR000109256

Relative:
Lower

Actual:
36 ft.

RCRA-SQG:

Date Form Received by Agency:		2001-11-19 00:00:00.0
Handler Name:	F C I USA INC	
Handler Address:		5700 WARLAND DR
Handler City,State,Zip:		CYPRESS, CA 90630
EPA ID:		CAR000109256
Contact Name:		ANTHONY BRISCO
Contact Address:		5700 WARLAND DR
Contact City,State,Zip:		CYPRESS, CA 90630
Contact Telephone:		562-356-2500
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		5700 WARLAND DR
Mailing City,State,Zip:		CYPRESS, CA 90630
Owner Name:		F C I USA INC
Owner Type:		Private
Operator Name:		Not reported
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

F C I USA INC (Continued) **1004678453**

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:	2002-10-07 16:36:09.0
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:	D039
Waste Description:	TETRACHLOROETHYLENE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	F C I USA INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5700 WARLAND DR
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	562-356-2500
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2001-11-19 00:00:00.0
Handler Name: F C I USA INC	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No

F C I USA INC (Continued) **1004678453**

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

HAZNET:
Name: F C I USA INC
Address: 5700 WARLAND DR
Address 2: Not reported
City,State,Zip: CYPRESS, CA 90630
Contact: Anthony Brisco
Telephone: 5623562500
Mailing Name: Not reported
Mailing Address: 5700 Warland Dr

Year: 2003
Gepaid: CAR000109256
TSD EPA ID: CAD059494310
CA Waste Code: -
Disposal Method: D99 - Disposal, Other
Tons: 0.225

Year: 2003
Gepaid: CAR000109256
TSD EPA ID: AZD049318009
CA Waste Code: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: T03 - Treatment, Incineration
Tons: 0.425

Year: 2003
Gepaid: CAR000109256
TSD EPA ID: AZD049318009
CA Waste Code: 551 - Laboratory waste chemicals
Disposal Method: T03 - Treatment, Incineration
Tons: 0.5275

Year: 2003
Gepaid: CAR000109256
TSD EPA ID: CAT000613893
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H01 - Transfer Station
Tons: 0.1428

F C I USA INC (Continued) **1004678453**

Year: 2002
Gepaid: CAR000109256
TSD EPA ID: CAD050806850
CA Waste Code: -
Disposal Method: H01 - Transfer Station
Tons: 0.34

Year: 2001
Gepaid: CAR000109256
TSD EPA ID: CAT000613893
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H01 - Transfer Station
Tons: 0.5124

Additional Info:
Year: 2003
Gen EPA ID: CAR000109256

Shipment Date: 20031003
Creation Date: 8/5/2004 10:13:32
Receipt Date: 20031009
Manifest ID: 22986515
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: AZD049318009
Trans Name: CLEAN HARBORS ARIZONA LLC
TSDF Alt EPA ID: 9040019999
TSDF Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D001
Meth Code: T03 - Treatment, Incineration
Quantity Tons: 0.4
Waste Quantity: 800
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: 20031003
Creation Date: 8/5/2004 10:13:32
Receipt Date: 20031009
Manifest ID: 22986515
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: AZD049318009
Trans Name: CLEAN HARBORS ARIZONA LLC
TSDF Alt EPA ID: 9040019999
TSDF Alt Name: Not reported
Waste Code Description: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.

F C I USA INC (Continued) **1004678453**

RCRA Code:	D001
Meth Code:	T03 - Treatment, Incineration
Quantity Tons:	0.425
Waste Quantity:	850
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:	20031003
Creation Date:	8/5/2004 10:13:32
Receipt Date:	20031009
Manifest ID:	22986515
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD049318009
Trans Name:	CLEAN HARBORS ARIZONA LLC
TSDF Alt EPA ID:	9040019999
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	T03 - Treatment, Incineration
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20031003
Creation Date:	8/5/2004 10:13:32
Receipt Date:	20031009
Manifest ID:	22986515
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD049318009
Trans Name:	CLEAN HARBORS ARIZONA LLC
TSDF Alt EPA ID:	9040019999
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	T03 - Treatment, Incineration
Quantity Tons:	0.0275
Waste Quantity:	55
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

F C I USA INC (Continued) **1004678453**

Additional Code 5:	Not reported
Shipment Date:	20031002
Creation Date:	8/5/2004 10:08:03
Receipt Date:	20031027
Manifest ID:	23030733
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LL
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	D008
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.225
Waste Quantity:	450
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:	20030521
Creation Date:	6/23/2004 9:59:25
Receipt Date:	20030527
Manifest ID:	22372233
Trans EPA ID:	TXR000050930
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613893
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1428
Waste Quantity:	34
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2001
Gen EPA ID:	CAR000109256
Shipment Date:	20011207
Creation Date:	1/29/2002 0:00:00
Receipt Date:	20011211

F C I USA INC (Continued) **1004678453**

Manifest ID:	21078338
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.5124
Waste Quantity:	122
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2002
Gen EPA ID:	CAR000109256
Shipment Date:	20020321
Creation Date:	1/8/2003 18:32:09
Receipt Date:	20020410
Manifest ID:	20349474
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050806850
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	D008
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.34
Waste Quantity:	680
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	F C I USA INC
Address:	5700 WARLAND DR
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 90630
EPA ID:	CAR000109256
Inactive Date:	06/30/2004

F C I USA INC (Continued) **1004678453**

Create Date:	03/04/2003
Last Act Date:	11/09/2004
Mailing Name:	Not reported
Mailing Address:	5700 Warland Dr
Mailing Address 2:	Not reported
Mailing City,State,Zip:	Cypress, CA 90630
Owner Name:	F C I Usa Inc
Owner Address:	5700 Warland Dr
Owner Address 2:	Not reported
Owner City,State,Zip:	Cypress, CA 90630
Contact Name:	Anthony Brisco
Contact Address:	5700 Warland Dr
Contact Address 2:	Not reported
City,State,Zip:	Cypress, CA 90630

NAICS:

EPA ID:	CAR000109256
Create Date:	2003-10-23 13:13:52.000
NAICS Code:	326121
NAICS Description:	Unsupported Plastics Profile Shape Manufacturing
Issued EPA ID Date:	2003-03-04 14:25:35.18700
Inactive Date:	2004-06-30 00:00:00
Facility Name:	F C I Usa Inc
Facility Address:	5700 Warland Dr
Facility Address 2:	Not reported
Facility City:	Cypress
Facility County:	Not reported
Facility State:	CA
Facility Zip:	90630

Q65 **ADVANEX AMERICAS INC** **RCRA NonGen / NLR** **1024794801**
NNE **5780 CERRITOS AVE** **CAL000153678**
1/8-1/4 **CYPRESS, CA 90630**
0.191 mi.
1006 ft. **Site 3 of 4 in cluster Q**

Relative:
Higher

Actual:
40 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		1999-11-16 00:00:00.0
Handler Name:	ADVANEX AMERICAS INC	
Handler Address:		5780 CERRITOS AVE
Handler City,State,Zip:		CYPRESS, CA 90630-0000
EPA ID:		CAL000153678
Contact Name:		VICTOR BAUTISTA
Contact Address:		5780 CERRITOS AVE
Contact City,State,Zip:		CYPRESS, CA 90630
Contact Telephone:		909-957-4918
Contact Fax:		714-995-7294
Contact Email:		VBAUTISTA@ADVANEXUSA.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

ADVANEX AMERICAS INC (Continued) **1024794801**

State District:	Not reported
Mailing Address:	5780 CERRITOS AVE
Mailing City,State,Zip:	CYPRESS, CA 90630-0000
Owner Name:	ADVANEX JAPAN
Owner Type:	Other
Operator Name:	VICTOR BAUTISTA
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:	2018-09-05 15:43:28.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No

ADVANEX AMERICAS INC (Continued) **1024794801**

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:	VICTOR BAUTISTA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5780 CERRITOS AVE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	909-957-4918
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ADVANEX JAPAN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5780 CERRITOS AVE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630-0000
Owner/Operator Telephone:	714-995-4519
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1999-11-16 00:00:00.0
Handler Name: ADVANEX AMERICAS 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:	334518
NAICS Description:	WATCH, CLOCK, AND PART MANUFACTURING

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

Q66
NNE
1/8-1/4
0.191 mi.
1006 ft.

Relative: Higher

Actual: 40 ft.

ADVANEX AMERICAS INC
5780 CERRITOS AVE
CYPRESS, CA 90630

Site 4 of 4 in cluster Q

CERS HAZ WASTE
HAZNET
NPDES
CIWQS
CERS
HWTS

S113083338
N/A

CERS HAZ WASTE:
Name: ADVANEX AMERICAS INC
Address: 5780 CERRITOS AVE
City,State,Zip: CYPRESS, CA 90630
Site ID: 374411
CERS ID: 10573174
CERS Description: Hazardous Waste Generator

HAZNET:
Name: ADVANEX AMERICAS INC
Address: 5780 CERRITOS AVE
Address 2: Not reported
City,State,Zip: CYPRESS, CA 906300000
Contact: JASON DAVIS
Telephone: 7146995525
Mailing Name: Not reported
Mailing Address: 5780 CERRITOS AVE

Year: 2019
Gepaid: CAL000153678
TSD EPA ID: CAD097030993
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: 2.90000

Year: 2019
Gepaid: CAL000153678
TSD EPA ID: CAT080013352
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: 0.00000

Year: 2018
Gepaid: CAL000153678
TSD EPA ID: CAD097030993
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: 1.05000

Year: 2018
Gepaid: CAL000153678
TSD EPA ID: CAT080013352
CA Waste Code: 222 - Oil/water separation sludge
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 6.25500

Year: 2018
Gepaid: CAL000153678

ADVANEX AMERICAS INC (Continued) **S113083338**

TSD EPA ID: AZR000520304
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: 2.20000

Year: 2018
Gepaid: CAL000153678
TSD EPA ID: CAD008252405
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: 0.10000

Year: 2018
Gepaid: CAL000153678
TSD EPA ID: CAD009007626
CA Waste Code: 151 - Asbestos containing waste
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.23000

Year: 2017
Gepaid: CAL000153678
TSD EPA ID: CAD097030993
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: 3.665

Year: 2017
Gepaid: CAL000153678
TSD EPA ID: CAD008252405
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: 0.075

Year: 2017
Gepaid: CAL000153678
TSD EPA ID: CAT080013352
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: 0.057

Click this hyperlink while viewing on your computer to access
27 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 1999
Gen EPA ID: CAL000153678

Shipment Date: 19991229
Creation Date: 2/15/2000 0:00:00
Receipt Date: 20000103

ADVANEX AMERICAS INC (Continued) **S113083338**

Manifest ID:	99537679
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0924
Waste Quantity:	22
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAL000153678
Shipment Date:	20131126
Creation Date:	5/14/2014 22:15:08
Receipt Date:	20131127
Manifest ID:	005788572FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
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:	20131107
Creation Date:	12/29/2013 22:15:24
Receipt Date:	20131114
Manifest ID:	011817761JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported

ADVANEX AMERICAS INC (Continued) **S113083338**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.834
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20130619
Creation Date:	11/16/2013 22:15:24
Receipt Date:	20130705
Manifest ID:	003840270SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MOR000501973
Trans 2 Name:	R&R TRUCKING INC
TSDF EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D007
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.35
Waste Quantity:	700
Quantity Unit:	P
Additional Code 1:	D006
Additional Code 2:	D005
Additional Code 3:	D004
Additional Code 4:	D001
Additional Code 5:	Not reported

Shipment Date:	20130619
Creation Date:	11/16/2013 22:15:24
Receipt Date:	20130705
Manifest ID:	003840270SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MOR000501973
Trans 2 Name:	R&R TRUCKING INC
TSDF EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D007
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel

ADVANEX AMERICAS INC (Continued) **S113083338**

Quantity Tons:	Not reported
Waste Quantity:	75
Quantity Unit:	Not reported
Additional Code 1:	D006
Additional Code 2:	D005
Additional Code 3:	D004
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20130619
Creation Date:	11/7/2013 22:15:14
Receipt Date:	20130721
Manifest ID:	003840269SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO
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:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2000
Gen EPA ID:	CAL000153678
Shipment Date:	20000905
Creation Date:	10/30/2000 0:00:00
Receipt Date:	20000907
Manifest ID:	20029396
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

ADVANEX AMERICAS INC (Continued) **S113083338**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000613
Creation Date:	8/2/2000 0:00:00
Receipt Date:	20000615
Manifest ID:	20012082
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.084
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:	20000501
Creation Date:	6/21/2000 0:00:00
Receipt Date:	20000503
Manifest ID:	20001443
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAL000153678
Shipment Date:	20151217

ADVANEX AMERICAS INC (Continued) **S113083338**

Creation Date:	3/3/2016 22:15:11
Receipt Date:	20151217
Manifest ID:	007611216FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20151013
Creation Date:	12/22/2015 22:15:21
Receipt Date:	20151013
Manifest ID:	008696620FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.15509
Waste Quantity:	277
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:	20150615
Creation Date:	9/10/2015 22:15:09
Receipt Date:	20150617
Manifest ID:	005788125FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

ADVANEX AMERICAS INC (Continued) **S113083338**

TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.72975
Waste Quantity:	175
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150603
Creation Date:	1/20/2016 22:15:43
Receipt Date:	20150605
Manifest ID:	005788167FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150602
Creation Date:	7/16/2015 22:15:31
Receipt Date:	20150604
Manifest ID:	005788166FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

ADVANEX AMERICAS INC (Continued) **S113083338**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.95
Waste Quantity:	1900
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:	20150601
Creation Date:	8/20/2015 22:15:10
Receipt Date:	20150603
Manifest ID:	005788346FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.06255
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150319
Creation Date:	6/26/2015 22:16:07
Receipt Date:	20150320
Manifest ID:	007611130FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	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:	0.133
Waste Quantity:	35
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

ADVANEX AMERICAS INC (Continued) **S113083338**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150312
Creation Date:	5/20/2015 22:15:07
Receipt Date:	20150312
Manifest ID:	005787914FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.825
Waste Quantity:	1650
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:	20150312
Creation Date:	8/21/2015 22:15:46
Receipt Date:	20150312
Manifest ID:	005787915FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.08
Waste Quantity:	160
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2017
Gen EPA ID:	CAL000153678

ADVANEX AMERICAS INC (Continued) **S113083338**

Shipment Date:	20171219
Creation Date:	8/3/2018 18:30:42
Receipt Date:	20171220
Manifest ID:	009719914FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.668
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

Shipment Date:	20171219
Creation Date:	8/3/2018 18:30:58
Receipt Date:	20171219
Manifest ID:	009719909FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
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:	20171114
Creation Date:	6/13/2018 18:31:07
Receipt Date:	20171114
Manifest ID:	009719759FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported

ADVANEX AMERICAS INC (Continued) **S113083338**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4
Waste Quantity:	800
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:	20171110
Creation Date:	6/13/2018 18:31:31
Receipt Date:	20171110
Manifest ID:	009719736FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.7931
Waste Quantity:	430
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:	20171011
Creation Date:	5/30/2018 18:33:51
Receipt Date:	20171011
Manifest ID:	009719595FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported

ADVANEX AMERICAS INC (Continued) **S113083338**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171011
Creation Date:	5/30/2018 18:33:51
Receipt Date:	20171011
Manifest ID:	009719595FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171011
Creation Date:	6/20/2018 18:31:51
Receipt Date:	20171012
Manifest ID:	009719594FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	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:	0.057
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

ADVANEX AMERICAS INC (Continued) **S113083338**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171006
Creation Date:	6/13/2018 18:31:14
Receipt Date:	20171006
Manifest ID:	009719568FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.8765
Waste Quantity:	450
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:	20170824
Creation Date:	6/20/2018 18:31:06
Receipt Date:	20170825
Manifest ID:	009719314FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.7931
Waste Quantity:	430
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:	20170726
Creation Date:	5/21/2018 18:32:48
Receipt Date:	20170726

ADVANEX AMERICAS INC (Continued) **S113083338**

Manifest ID:	009719131FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.95
Waste Quantity:	1900
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:	CAL000153678
Shipment Date:	20070508
Creation Date:	10/18/2007 18:30:07
Receipt Date:	20070516
Manifest ID:	002950289JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.034
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2001
Gen EPA ID:	CAL000153678
Shipment Date:	20010807

ADVANEX AMERICAS INC (Continued) **S113083338**

Creation Date:	10/3/2001 0:00:00
Receipt Date:	20010810
Manifest ID:	21109379
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.084
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:	20010625
Creation Date:	8/29/2001 0:00:00
Receipt Date:	20010627
Manifest ID:	20645433
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0924
Waste Quantity:	22
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:	20010515
Creation Date:	7/10/2001 0:00:00
Receipt Date:	20010517
Manifest ID:	20639585
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported

ADVANEX AMERICAS INC (Continued) **S113083338**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010402
Creation Date:	8/27/2002 18:31:31
Receipt Date:	Not reported
Manifest ID:	20625096
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.105
Waste Quantity:	25
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:	20010220
Creation Date:	8/27/2002 18:31:31
Receipt Date:	Not reported
Manifest ID:	20423541
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0924
Waste Quantity:	22
Quantity Unit:	G
Additional Code 1:	Not reported

ADVANEX AMERICAS INC (Continued) **S113083338**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010110
Creation Date:	8/27/2002 18:31:31
Receipt Date:	Not reported
Manifest ID:	20392480
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.084
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:	2002
Gen EPA ID:	CAL000153678
Shipment Date:	20020905
Creation Date:	8/27/2002 18:31:31
Receipt Date:	Not reported
Manifest ID:	20029396
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.084
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

ADVANEX AMERICAS INC (Continued) **S113083338**

Shipment Date:	20020821
Creation Date:	3/14/2003 18:31:30
Receipt Date:	20020827
Manifest ID:	21747575
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0504
Waste Quantity:	12
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:	20020307
Creation Date:	8/27/2002 18:31:31
Receipt Date:	20020312
Manifest ID:	21498778
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.084
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:	20020307
Creation Date:	8/27/2002 18:31:31
Receipt Date:	20020312
Manifest ID:	21498778
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893

ADVANEX AMERICAS INC (Continued) **S113083338**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.084
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:	2016
Gen EPA ID:	CAL000153678
Shipment Date:	20151217
Creation Date:	3/3/2016 22:15:11
Receipt Date:	20151217
Manifest ID:	007611216FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151013
Creation Date:	12/22/2015 22:15:21
Receipt Date:	20151013
Manifest ID:	008696620FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge

ADVANEX AMERICAS INC (Continued) **S113083338**

RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.15509
Waste Quantity:	277
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:	20150615
Creation Date:	9/10/2015 22:15:09
Receipt Date:	20150617
Manifest ID:	005788125FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.72975
Waste Quantity:	175
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150603
Creation Date:	1/20/2016 22:15:43
Receipt Date:	20150605
Manifest ID:	005788167FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported

ADVANEX AMERICAS INC (Continued) **S113083338**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150602
Creation Date:	7/16/2015 22:15:31
Receipt Date:	20150604
Manifest ID:	005788166FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.95
Waste Quantity:	1900
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:	20150601
Creation Date:	8/20/2015 22:15:10
Receipt Date:	20150603
Manifest ID:	005788346FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.06255
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150319
Creation Date:	6/26/2015 22:16:07

ADVANEX AMERICAS INC (Continued) **S113083338**

Receipt Date:	20150320
Manifest ID:	007611130FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	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:	0.133
Waste Quantity:	35
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150312
Creation Date:	8/21/2015 22:15:46
Receipt Date:	20150312
Manifest ID:	005787915FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.08
Waste Quantity:	160
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:	20150312
Creation Date:	5/20/2015 22:15:07
Receipt Date:	20150312
Manifest ID:	005787914FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993

ADVANEX AMERICAS INC (Continued) **S113083338**

Trans Name: EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 181 - Other inorganic solid waste Organics
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.825
Waste Quantity: 1650
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: 2014
Gen EPA ID: CAL000153678

Shipment Date: 20141230
Creation Date: 6/24/2015 22:15:41
Receipt Date: 20150107
Manifest ID: 007610804FLE
Trans EPA ID: CAL000264808
Trans Name: EXPRESS OIL CO
Trans 2 EPA ID: CAD980585293
Trans 2 Name: INDUSTRIAL WASTE UTILIZATION INC
TSDF EPA ID: AZR000501510
Trans Name: AA SYDCOL LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 181 - Other inorganic solid waste Organics
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.15
Waste Quantity: 300
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20141222
Creation Date: 3/3/2015 22:15:07
Receipt Date: 20141222
Manifest ID: 007610756FLE
Trans EPA ID: CAL000264806
Trans Name: EXPRESS OIL CO
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD097030993
Trans Name: EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported

ADVANEX AMERICAS INC (Continued) **S113083338**

Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.6
Waste Quantity:	1200
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:	20141222
Creation Date:	6/25/2015 22:16:11
Receipt Date:	20141222
Manifest ID:	007610758FLE
Trans EPA ID:	CAL000264808
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141121
Creation Date:	1/15/2015 22:15:01
Receipt Date:	20141121
Manifest ID:	007613159FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P

ADVANEX AMERICAS INC (Continued) **S113083338**

Additional 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:	20141121
Creation Date:	4/9/2015 22:15:05
Receipt Date:	20141124
Manifest ID:	007613158FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141118
Creation Date:	1/26/2015 22:15:24
Receipt Date:	20141119
Manifest ID:	007613198FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.87987
Waste Quantity:	211
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:	20141017

ADVANEX AMERICAS INC (Continued) **S113083338**

Creation Date:	1/8/2015 22:15:01
Receipt Date:	20141017
Manifest ID:	007613374FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.52125
Waste Quantity:	125
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:	20141006
Creation Date:	12/17/2014 22:14:47
Receipt Date:	20141008
Manifest ID:	009541902JJK
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	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:	0.133
Waste Quantity:	35
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20141002
Creation Date:	11/14/2014 22:15:04
Receipt Date:	20141003
Manifest ID:	007613428FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

ADVANEX AMERICAS INC (Continued) **S113083338**

TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140926
Creation Date:	11/14/2014 22:15:04
Receipt Date:	20140926
Manifest ID:	007613452FLE
Trans EPA ID:	CAL000264806
Trans Name:	EXPRESS OIL CO
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.6
Waste Quantity:	1200
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

NPDES:

Name:	ADVANEX AMERICAS
Address:	5780 CERRITOS AVENUE
City,State,Zip:	CYPRESS, CA 90630
Facility Status:	Terminated
NPDES Number:	CAS000001
Region:	8
Agency Number:	0
Regulatory Measure ID:	464623
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	8 30NEC001591
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported

ADVANEX AMERICAS INC (Continued) **S113083338**

Effective Date Of Regulatory Measure:	11/24/2015
Termination Date Of Regulatory Measure:	10/23/2019
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	5780 Cerritos Avenue
Discharge Name:	Advanex Americas
Discharge City:	Cypress
Discharge State:	California
Discharge Zip:	90630
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	464623
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 30NEC001591
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	11/17/2015
Processed Date:	11/24/2015
Status:	Active
Status Date:	11/24/2015
Place Size:	0
Place Size Unit:	SqFt
Contact:	Victor Bautista
Contact Title:	Plant Manager
Contact Phone:	714-995-4519
Contact Phone Ext:	360
Contact Email:	vbautista@advanexusa.com
Operator Name:	Advanex Americas
Operator Address:	5780 Cerritos Avenue
Operator City:	Cypress
Operator State:	California
Operator Zip:	90630
Operator Contact:	Victor Bautista
Operator Contact Title:	Plant Manager
Operator Contact Phone:	714-995-4519
Operator Contact Phone Ext:	360
Operator Contact Email:	vbautista@advanexusa.com
Operator Type:	Private Business

ADVANEX AMERICAS INC (Continued) **S113083338**

Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	714-995-4519
Emergency Phone Ext:	353
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Victor Bautista
Certifier Title:	Plant Manager
Certification Date:	23-SEP-16
Primary Sic:	3495-Wire Springs
Secondary Sic:	3496-Miscellaneous Fabricated Wire Products
Tertiary Sic:	3499-Fabricated Metal Products, NEC

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	464623
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 30NEC001591
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/24/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Advanex Americas
Discharge Address:	5780 Cerritos Avenue
Discharge City:	Cypress
Discharge State:	California
Discharge Zip:	90630
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported

ADVANEX AMERICAS INC (Continued) **S113083338**

Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	ADVANEX AMERICAS
Address:	5780 CERRITOS AVE

ADVANEX AMERICAS INC (Continued) **S113083338**

City,State,Zip:	CYPRESS, CA 90630
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:	8 30IN605930
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:	NOI Required
Status Date:	12/05/2019
Operator Name:	Advanex Americas
Operator Address:	5780 Cerritos Ave
Operator City:	Cypress
Operator State:	California
Operator Zip:	90630

Name:	ADVANEX AMERICAS
Address:	5780 CERRITOS AVE
City,State,Zip:	CYPRESS, CA 90630
Facility Status:	Active
NPDES Number:	CAS000001
Region:	8
Agency Number:	0
Regulatory Measure ID:	516140
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	8 30NEC005901
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	01/21/2020
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	5780 Cerritos Ave
Discharge Name:	Advanex Americas
Discharge City:	Cypress
Discharge State:	California
Discharge Zip:	90630
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

ADVANEX AMERICAS INC (Continued) **S113083338**

Name:	ADVANEX AMERICAS
Address:	5780 CERRITOS AVE
City,State,Zip:	CYPRESS, CA 90630
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:	8 30NEC005901
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:	Active
Status Date:	01/21/2020
Operator Name:	Advanex Americas
Operator Address:	5780 Cerritos Ave
Operator City:	Cypress
Operator State:	California
Operator Zip:	90630

Name:	ADVANEX AMERICAS
Address:	5780 CERRITOS AVENUE
City,State,Zip:	CYPRESS, CA 90630
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:	8 30NEC001591
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:	Terminated
Status Date:	11/24/2015
Operator Name:	Advanex Americas
Operator Address:	5780 Cerritos Avenue
Operator City:	Cypress

ADVANEX AMERICAS INC (Continued) **S113083338**

Operator State:	California
Operator Zip:	90630

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	464623
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 30NEC001591
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	11/17/2015
Processed Date:	11/24/2015
Status:	Active
Status Date:	11/24/2015
Place Size:	0
Place Size Unit:	SqFt
Contact:	Victor Bautista
Contact Title:	Plant Manager
Contact Phone:	714-995-4519
Contact Phone Ext:	360
Contact Email:	vbautista@advanexusa.com
Operator Name:	Advanex Americas
Operator Address:	5780 Cerritos Avenue
Operator City:	Cypress
Operator State:	California
Operator Zip:	90630
Operator Contact:	Victor Bautista
Operator Contact Title:	Plant Manager
Operator Contact Phone:	714-995-4519
Operator Contact Phone Ext:	360
Operator Contact Email:	vbautista@advanexusa.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	714-995-4519
Emergency Phone Ext:	353
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported

ADVANEX AMERICAS INC (Continued) **S113083338**

Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Victor Bautista
Certifier Title:	Plant Manager
Certification Date:	23-SEP-16
Primary Sic:	3495-Wire Springs
Secondary Sic:	3496-Miscellaneous Fabricated Wire Products
Tertiary Sic:	3499-Fabricated Metal Products, NEC
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	464623
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 30NEC001591
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/24/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Advanex Americas
Discharge Address:	5780 Cerritos Avenue
Discharge City:	Cypress
Discharge State:	California
Discharge Zip:	90630
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

ADVANEX AMERICAS INC (Continued) **S113083338**

Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Name:	ADVANEX AMERICAS
Address:	5780 CERRITOS AVENUE
City,State,Zip:	CYPRESS, CA 90630
Agency:	Advanex Americas
Agency Address:	5780 Cerritos Avenue, Cypress, CA 90630
Place/Project Type:	Industrial - Wire Springs
SIC/NAICS:	3495(+)
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 30NEC001591
NPDES Number:	CAS000001

ADVANEX AMERICAS INC (Continued) **S113083338**

Adoption Date:	01/01/1900
Effective Date:	11/24/2015
Termination Date:	10/23/2019
Expiration/Review Date:	01/01/1900
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	2
Violations within 5 years:	1
Latitude:	33.80946
Longitude:	-118.03189

Name:	ADVANEX AMERICAS
Address:	5780 CERRITOS AVE
City,State,Zip:	CYPRESS, CA 90630
Agency:	Advanex Americas
Agency Address:	5780 Cerritos Ave, Cypress, CA 90630
Place/Project Type:	Industrial - Wire Springs
SIC/NAICS:	3495(+)
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 30NEC005901
NPDES Number:	CAS000001
Adoption Date:	01/01/1900
Effective Date:	01/21/2020
Termination Date:	01/01/1900
Expiration/Review Date:	01/01/1900
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:	33.80946
Longitude:	-118.03189

CERS:

Name:	ADVANEX AMERICAS INC
Address:	5780 CERRITOS AVE
City,State,Zip:	CYPRESS, CA 90630
Site ID:	374411
CERS ID:	10573174
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	374411
Site Name:	ADVANEX AMERICAS INC
Violation Date:	10-27-2020
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	OBSERVATION: The site map in CERS is incomplete/inaccurate. Submit a

ADVANEX AMERICAS INC (Continued) **S113083338**

site map with all of the following applicable elements: north orientation, loading area, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shut offs, evacuation staging area, hazardous materials/waste storage areas and emergency response equipment. CORRECTIVE ACTION: Complete and electronically submit a site map with all required elements t in CERS within 30 days.

Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 374411
Site Name: ADVANEX AMERICAS INC
Violation Date: 10-27-2020
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: OBSERVATION: The Business Activities section and Hazardous Materials section require amendments. CORRECTIVE ACTION: Review comments in CERS, revise, and resubmit within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 374411
Site Name: ADVANEX AMERICAS INC
Violation Date: 10-27-2020
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: OBSERVATION: The Hazardous Materials Business Plan (HMBP) was last submitted on 2/28/18. CORRECTIVE ACTION: Review comments in CERS and update all applicable sections prior to resubmitting the HMBP. Revise and resubmit all section within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 374411
Site Name: ADVANEX AMERICAS INC
Violation Date: 10-27-2020
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: OBSERVATION: 1. The label on one 55 gallon container of metal shavings was missing the hazardous property, physical state, and accumulation

ADVANEX AMERICAS INC (Continued) **S113083338**

start date. The following containers were missing hazardous waste labels: 2. One 55 gallon container of metal shavings 3. One 55 gallon container of used oil 4. One 55 gallon container of paint waste CORRECTIVE ACTION: Properly label all containers of hazardous waste. Submit photos to this Agency within 30 days.

Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 374411
Site Name: ADVANEX AMERICAS INC
Violation Date: 10-27-2020
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
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: OBSERVATION: The business failed to establish and electronically submit adequate emergency response procedures for a release or threatened release of a hazardous material. CORRECTIVE ACTION: Complete the Consolidated Emergency Response Plan template and submit in CERS within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 374411
Site Name: ADVANEX AMERICAS INC
Violation Date: 06-20-2017
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 business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 03/27/2018. Submit your HMD/BEP to CERS immediately.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 374411
Site Name: ADVANEX AMERICAS INC
Violation Date: 10-27-2020
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes: OBSERVATION: The business failed to establish and electronically submit an adequate employee training plan, which is reasonable and appropriate for the size of the business and the nature of the hazardous material handled. CORRECTIVE ACTION: Establish and electronically submit an adequate employee training plan in CERS within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

ADVANEX AMERICAS INC (Continued) **S113083338**

Site ID:	374411
Site Name:	ADVANEX AMERICAS INC
Violation Date:	07-30-2019
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 inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	OBSERVATION: Chemical Inventory reported on CERS requires updates. CORRECTIVE ACTION: Please review regulator comments on CERS, make corrections/updates and resubmit within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	374411
Site Name:	ADVANEX AMERICAS INC
Violation Date:	10-27-2020
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	OBSERVATION: Annual employee training has not been conducted. CORRECTIVE ACTION: Provide all employees with required training that includes: safe handling of hazardous materials, emergency response procedures, and proper use of response equipment. Submit a copy of the training record with the following information documented: topic of training, date, employee name, employee signature. Submit documentation to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	374411
Site Name:	ADVANEX AMERICAS INC
Violation Date:	10-27-2020
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:	OBSERVATION: The following containers have been stored on site for over 180 days: - 55 gal container of used oil with an accumulation start date of 1/5/18 - 55 gal container of used oil with an accumulation start date of 1/29/19 CORRECTIVE ACTION: Immediately have the hazardous waste hauled by a registered hazardous waste hauler. Submit a copy of the manifest to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HW

ADVANEX AMERICAS INC (Continued) **S113083338**

Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 06-20-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed the facility's Hazardous Materials Disclosure and Business Emergency Plan to CERS (California Environmental Reporting System). The facility has only submitted their Business Activities and Business Owner/Operator Identification. After reviewing the inspection report from the inspection conducted 7/8/2016, it appears a violation to the facility for not submitting their business emergency plan was never issued. The facility is now being issued a violation for not submitting their Hazardous Materials Disclosure and Business Emergency Plan. Please disclose your Hazardous Materials Inventory. Hazardous materials are materials above the reportable thresholds of 55 gallons liquid, 500 pounds solid, 200 cubic feet compressed gas. Submit a site map consisting of the following information: north orientation, loading areas and internal roads if applicable, adjacent streets, storm drains and sewers, access and exit points, emergency gas/water/electric shutoffs, [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-08-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Disclosure Business Emergency Plan (HMD/BEP) inspection. Met with Plant Manager Victor Bautista from Advanex. Consent was provided to enter and conduct inspection activities. Advanex has not submitted the HMD/BEP into the California Environmental Reporting System (CERS) database (See violation I292 above). Disclosable chemicals verified include: - Lubricating oils G 325 gallons - Lead Acid Batteries/Sulfuric Acid Electrolyte G Unknown Quantity - Argon G 1,680 Cu.Ft. The contingency plan and training program was verified during this inspection. Please note that if the facility decides to discontinue any of the above chemicals, proper disposal or removal of chemicals is required and maintenance of disposal records will be verified. Within 30 days of removal, contact this agency to verify that the hazardous material is no longer stored on site and remove it from the facility's listed disclosable chemicals.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-08-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Waste inspection. Met with Plant Manager Victor Bautista from Advanex. Consent was provided to enter and conduct inspection activities. Hazardous waste was properly managed. All containers were properly labeled and stored closed.

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	Perimeter of the facility was inspected. Did not observe any indication of a hazardous waste release or illegal dumping along the perimeter of the facility. The Hazardous Waste Emergency Response information was available in the emergency response plan.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-08-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Marco
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-13-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS ID 10573174 HMBEP submittal was submitted 2/28/18 and reviewed 3/27/18. Violation I292 cited on 6/20/17 is corrected as of 3/27/18.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-19-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct an annual routine Hazardous Waste Inspection. Met with Victor and Joe who explained the process and escorted me through the site. Facility contains: 55 gallon drum of used hydraulic oil and universal waste Hazardous waste containers are properly labeled and covered. All containers storing hazardous waste must be labeled with the following information: 1. The words G HAZARDOUS WasteG 2. Waste (name) 3. Hazardous property of the waste (e.g. G toxic, flammable, corrosive, etc.) 4. Physical state of the waste (liquid or solid) 5. Name and address of the business. 6. Accumulation date (date the first drop of waste has been placed in container) Documents Available for review: 1. Hazardous waste Manifest/Receipts (keep a copy on site for three years). - Note: A copy of the federal manifest must be sent to DTSC. (Department of Toxic Substances Control, P.O. Box 400, Sacramento, CA 95812-0400). 2. Hazardous Waste Emergency Response [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-29-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct hazardous waste inspection. Walked the interior and exterior areas of the facility. Observed hazardous waste storage area and containers. Manifests, Contingency Plan and training records were

ADVANEX AMERICAS INC (Continued) **S113083338**

	available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-29-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine Hazardous Materials Business Plan (HMBP) inspection. Observed the following hazardous materials on site in reportable quantities (all sizes are approximate): - 1 x 55 gal of waste oil - 4 x 55 gal of metal shavings (3000 lbs total) - 12 x 8 gal propane cylinders - 2 x 55 gal of new oil - 6 x 280 cubic ft cylinders of argon (1680 cubic ft total) Per California Health & Safety Code Ch. 6.95, businesses that store and handle hazardous materials at or over reportable quantities (55 gal of a liquid, 500 lbs of a solid, 200 cubic ft of a compressed gas) must prepare and implement an HMBP. The HMBP must include the following elements: - Business Activities - Owner/Operator Information - Chemical Inventory - Site Map - Emergency Response Plan/Training Plan The HMBP must be submitted online through the California Environmental Reporting System (CERS) by March 1st of every year. The facility is responsible for identifying all hazardous [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-10-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The purpose of this offsite inspection is to follow up on violations that were noted on a previous inspection report. The following violations are outstanding and must be corrected IMMEDIATELY: - I169: Failure to complete and electronically submit hazardous material inventory forms information for all reportable hazardous materials on site at or above reportable quantities - I463: Failure to annually review and electronically submit the business plan on or before the annual due date and certify that it is complete, accurate, and in compliance An onsite inspection may be conducted within 30 days to assess compliance.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-27-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site inspection was conducted with Michael Polis, and Hossein Vatankhah (Quality Engineer) with Advanex Americas. Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure (volumes are approximate): - 6 x 55 gal lubricating oil - 3 x 55 gal hydraulic oil - 1 x 55 gal gear oil - 2 x 55 gal kerosene - 3 x 55 gal waste metal shavings - 3 x 55 gal

ADVANEX AMERICAS INC (Continued) **S113083338**

	used oil - 6 x 280 cf Argon
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-27-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site inspection was conducted with Michael Polis, and Hossein Vatankhah (Quality Engineer) with Advanex Americas. Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed. Manifests were available and reviewed. Employees are reported to be trained. Hazardous Materials Business Plan on site. No hazardous waste or universal waste observed in the dumpster/enclosure area.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	374411
Facility Name:	ADVANEX AMERICAS INC
Env Int Type Code:	HWG
Program ID:	10573174
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.809460
Longitude:	-118.031890

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406
Affiliation Type Desc:	Environmental Contact
Entity Name:	Victor Bautista
Entity Title:	Not reported
Affiliation Address:	5780 CERRITOS AVE
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	5780 Cerritos Ave.
Affiliation City:	Cypress
Affiliation State:	CA

ADVANEX AMERICAS INC (Continued) **S113083338**

Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Vicor Bautista‘
Entity Title:	Plant Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Victor Bautista
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) 957-4918
Affiliation Type Desc:	Legal Owner
Entity Name:	Advanex Americas, Inc.
Entity Title:	Not reported
Affiliation Address:	5780 CERRITOS AVE
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(714) 995-4519
Affiliation Type Desc:	Parent Corporation
Entity Name:	ADVANEX AMERICAS INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Advanex Amerias, Inc.
Entity Title:	Not reported
Affiliation Address:	5780 CERRITOS AVE
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(714) 995-4519
Affiliation Type Desc:	Document Preparer
Entity Name:	Vicor Bautista‘
Entity Title:	Not reported

ADVANEX AMERICAS INC (Continued) **S113083338**

Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

HWTS:

Name:	ADVANEX AMERICAS INC
Address:	5780 CERRITOS AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
EPA ID:	CAL000153678
Inactive Date:	Not reported
Create Date:	11/16/1999
Last Act Date:	08/25/2020
Mailing Name:	Not reported
Mailing Address:	5780 CERRITOS AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CYPRESS, CA 906300000
Owner Name:	ADVANEX JAPAN
Owner Address:	5780 CERRITOS AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	CYPRESS, CA 906300000
Contact Name:	JASON DAVIS
Contact Address:	5780 CERRITOS AVE
Contact Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 90630

NAICS:

EPA ID:	CAL000153678
Create Date:	2011-04-05 10:18:11.997
NAICS Code:	334518
NAICS Description:	Watch, Clock, and Part Manufacturing
Issued EPA ID Date:	1999-11-16 00:00:00
Inactive Date:	Not reported
Facility Name:	ADVANEX AMERICAS INC
Facility Address:	5780 CERRITOS AVE
Facility Address 2:	Not reported
Facility City:	CYPRESS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	906300000

R67 **CLEVELAND GOLF** **RCRA NonGen / NLR** **1004676661**
North **5630 CERRITOS AVE** **FINDS** **CAR000087973**
1/8-1/4 **CYPRESS, CA 90630** **ECHO**
0.193 mi. **HAZNET**
1021 ft. **Site 1 of 2 in cluster R** **HWTS**

Relative:
Higher

Actual:
39 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		2000-12-07 00:00:00.0
Handler Name:	CLEVELAND GOLF	
Handler Address:		5630 CERRITOS AVE
Handler City,State,Zip:		CYPRESS, CA 90630
EPA ID:		CAR000087973

CLEVELAND GOLF (Continued) **1004676661**

Contact Name:	CARL CROTTEAU
Contact Address:	5601 SKYLAB RD
Contact City,State,Zip:	HUNTINGTON BEACH, CA 92649
Contact Telephone:	714-821-4200 155
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
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	5601 SKYLAB RD
Mailing City,State,Zip:	HUNTINGTON BEACH, CA 92649
Owner Name:	CLEVELAND GOLF
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

CLEVELAND GOLF (Continued) **1004676661**

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:	2004-10-19 18:39:43.0
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:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CLEVELAND GOLF
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5630 CERRITOS AVE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-821-4200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2000-12-07 00:00:00.0
Handler Name: CLEVELAND GOLF	
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 Codes:	No NAICS Codes Found

CLEVELAND GOLF (Continued) **1004676661**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110012204408

Click Here:

Environmental Interest/Information System:
AIR EMISSIONS CLASSIFICATION UNKNOWN
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) 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.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1004676661
Registry ID:	110012204408
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110012204408
Name:	ROGER CLEVELAND GOLF INC
Address:	5630 CERRITOS AVENUE
City,State,Zip:	CYPRESS, CA 90630

HAZNET:

Name:	CLEVELAND GOLF
Address:	5630 CERRITOS AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
Contact:	CARL CROTTEAU/FAC MGR
Telephone:	7148214200
Mailing Name:	Not reported
Mailing Address:	5601 SKYLAB RD
Year:	2004
Gepaid:	CAR000087973
TSD EPA ID:	AZD009015389
CA Waste Code:	352 - Other organic solids
Disposal Method:	R01 - Recycler
Tons:	2.9225
Year:	2004
Gepaid:	CAR000087973
TSD EPA ID:	AZD081705402

CLEVELAND GOLF (Continued) **1004676661**

CA Waste Code: 352 - Other organic solids
Disposal Method: -
Tons: 0.6175

Year: 2004
Gepaid: CAR000087973
TSD EPA ID: AZD009015389
CA Waste Code: 352 - Other organic solids
Disposal Method: -
Tons: 2.072

Year: 2004
Gepaid: CAR000087973
TSD EPA ID: IND000646943
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: D80 - Disposal, Land Fill
Tons: 0.594

Year: 2004
Gepaid: CAR000087973
TSD EPA ID: AZD081705402
CA Waste Code: 352 - Other organic solids
Disposal Method: R01 - Recycler
Tons: 0.45

Year: 2004
Gepaid: CAR000087973
TSD EPA ID: IND000646943
CA Waste Code: 181 - Other inorganic solid waste
Disposal Method: D80 - Disposal, Land Fill
Tons: 4.1225

Year: 2004
Gepaid: CAR000087973
TSD EPA ID: IND000646943
CA Waste Code: 181 - Other inorganic solid waste
Disposal Method: -
Tons: 0.688

Year: 2004
Gepaid: CAR000087973
TSD EPA ID: CAD097030993
CA Waste Code: 135 - Unspecified aqueous solution
Disposal Method: R01 - Recycler
Tons: 0.672

Year: 2004
Gepaid: CAR000087973
TSD EPA ID: AZD009015389
CA Waste Code: 352 - Other organic solids
Disposal Method: H01 - Transfer Station
Tons: 1.0805

Year: 2004
Gepaid: CAR000087973
TSD EPA ID: AZD081705402
CA Waste Code: 181 - Other inorganic solid waste

CLEVELAND GOLF (Continued) **1004676661**

Disposal Method: -
Tons: 0.686

Click this hyperlink while viewing on your computer to access
18 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2002
Gen EPA ID: CAR000087973

Shipment Date: 20021018
Creation Date: 9/3/2003 11:53:37
Receipt Date: 20021024
Manifest ID: 22026674
Trans EPA ID: CAR000047696
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD097030993
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 135 - Unspecified aqueous solution
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 0.231
Waste Quantity: 55
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20021018
Creation Date: 9/3/2003 11:54:31
Receipt Date: 20021029
Manifest ID: 22026675
Trans EPA ID: CAR000047696
Trans Name: Not reported
Trans 2 EPA ID: AZD982403586
Trans 2 Name: Not reported
TSDF EPA ID: AZD009015389
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: D001
Meth Code: R01 - Recycler
Quantity Tons: 0.657
Waste Quantity: 1314
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported

CLEVELAND GOLF (Continued) **1004676661**

Additional Code 5:	Not reported
Shipment Date:	20020930
Creation Date:	2/11/2003 18:31:24
Receipt Date:	20021003
Manifest ID:	21607088
Trans EPA ID:	IND058484114
Trans Name:	Not reported
Trans 2 EPA ID:	UTD981552425
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD081705402
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	1.102
Waste Quantity:	2204
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:	20020812
Creation Date:	3/17/2003 18:31:23
Receipt Date:	20020819
Manifest ID:	21026362
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD009015389
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.627
Waste Quantity:	1254
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:	20020812
Creation Date:	9/3/2003 11:52:42
Receipt Date:	20020816
Manifest ID:	21340102
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported

CLEVELAND GOLF (Continued) **1004676661**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.22
Waste Quantity:	440
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:	20020617
Creation Date:	9/3/2002 18:32:13
Receipt Date:	20020617
Manifest ID:	21343986
Trans EPA ID:	CAT000624247
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	8.428
Waste Quantity:	10
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20020613
Creation Date:	9/3/2003 11:51:50
Receipt Date:	20020614
Manifest ID:	21805184
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.231

CLEVELAND GOLF (Continued) **1004676661**

Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020613
Creation Date:	9/5/2002 18:30:37
Receipt Date:	20020621
Manifest ID:	21805185
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD009015389
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.744
Waste Quantity:	1488
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:	20020415
Creation Date:	1/8/2003 18:32:09
Receipt Date:	20020417
Manifest ID:	20331382
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050806850
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.9035
Waste Quantity:	1807
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:	20020125

CLEVELAND GOLF (Continued) **1004676661**

Creation Date:	7/8/2002 18:31:16
Receipt Date:	20020131
Manifest ID:	21446690
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050806850
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.7495
Waste Quantity:	1499
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2003
Gen EPA ID:	CAR000087973
Shipment Date:	20031107
Creation Date:	8/9/2004 8:47:21
Receipt Date:	20031120
Manifest ID:	22764605
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT
TSDF EPA ID:	AZD009015389
Trans Name:	ROMIC ENVIRONMENTAL TECHNOLOGIES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	1
Waste Quantity:	2000
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:	20030814
Creation Date:	7/29/2004 15:04:11
Receipt Date:	20030827
Manifest ID:	22859564
Trans EPA ID:	CAR000047696
Trans Name:	Not reported

CLEVELAND GOLF (Continued) **1004676661**

Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD009015389
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.78
Waste Quantity:	1560
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:	20030806
Creation Date:	7/28/2004 10:45:53
Receipt Date:	20030808
Manifest ID:	22741826
Trans EPA ID:	IND058484114
Trans Name:	Not reported
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD081705402
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.115
Waste Quantity:	230
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:	20030626
Creation Date:	5/18/2004 10:58:44
Receipt Date:	Not reported
Manifest ID:	22410931
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	CAR000088732
Trans 2 Name:	Not reported
TSDF EPA ID:	IND000646943
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	- Not reported

CLEVELAND GOLF (Continued) **1004676661**

Quantity Tons:	0.2335
Waste Quantity:	467
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:	20030626
Creation Date:	5/18/2004 10:58:44
Receipt Date:	Not reported
Manifest ID:	22410938
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD009015389
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.968
Waste Quantity:	1936
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:	20030626
Creation Date:	7/22/2004 7:51:02
Receipt Date:	20030627
Manifest ID:	22410945
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.231
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CLEVELAND GOLF (Continued) **1004676661**

Shipment Date:	20030625
Creation Date:	7/22/2004 7:52:06
Receipt Date:	20030627
Manifest ID:	22741661
Trans EPA ID:	IND058484114
Trans Name:	Not reported
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD081705402
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.431
Waste Quantity:	862
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:	20030512
Creation Date:	7/20/2004 12:51:42
Receipt Date:	20030604
Manifest ID:	22414172
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	CAD010925576
Trans 2 Name:	Not reported
TSDF EPA ID:	IND000646943
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.206
Waste Quantity:	412
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:	20030506
Creation Date:	6/23/2004 9:59:25
Receipt Date:	20030509
Manifest ID:	22014700
Trans EPA ID:	IND058484114
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD081705402

CLEVELAND GOLF (Continued) **1004676661**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	1.2005
Waste Quantity:	2401
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:	20030407
Creation Date:	6/21/2003 18:30:56
Receipt Date:	20030411
Manifest ID:	22690168
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.231
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2004
Gen EPA ID:	CAR000087973

Shipment Date:	20041222
Creation Date:	4/2/2005 18:30:21
Receipt Date:	20050113
Manifest ID:	24076607
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	CAR000075424
Trans 2 Name:	ENVIRO-GAURD
TSDF EPA ID:	IND000646943
Trans Name:	POLLUTION CONTROL INDUSTRIES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	NONE

CLEVELAND GOLF (Continued) **1004676661**

Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.594
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041222
Creation Date:	4/2/2005 18:30:21
Receipt Date:	20050105
Manifest ID:	24076609
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	AZD009015389
Trans Name:	ROMIC ENVIRONMENTAL TECHNOLOGIES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.45
Waste Quantity:	900
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:	20041115
Creation Date:	2/17/2005 18:32:51
Receipt Date:	20041130
Manifest ID:	24182323
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	AZD009015389
Trans Name:	ROMIC ENVIRONMENTAL TECHNOLOGIES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.6305
Waste Quantity:	1261
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

CLEVELAND GOLF (Continued) **1004676661**

Shipment Date:	20041115
Creation Date:	1/20/2005 18:31:32
Receipt Date:	20041119
Manifest ID:	24182325
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES CA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	0.231
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20041115
Creation Date:	2/17/2005 18:32:51
Receipt Date:	20041201
Manifest ID:	24182324
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	CAR000075424
Trans 2 Name:	ENVIRO-GUARD
TSDF EPA ID:	IND000646943
Trans Name:	POLLUTION CONTROL INDUSTRIES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D007
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.3395
Waste Quantity:	679
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:	20040929
Creation Date:	1/11/2005 18:31:27
Receipt Date:	20041015
Manifest ID:	24076052
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	CAR000075424
Trans 2 Name:	ENVIRO-GUARD
TSDF EPA ID:	IND000646943

CLEVELAND GOLF (Continued) **1004676661**

Trans Name:	POLLUTION CONTROL INDUSTRIES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D007
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.35
Waste Quantity:	700
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:	20040929
Creation Date:	1/11/2005 18:31:27
Receipt Date:	20041014
Manifest ID:	24076053
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	AZD009015389
Trans Name:	ROMIC ENVIRONMENTAL TECHNOLOGIES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.8485
Waste Quantity:	1697
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:	20040805
Creation Date:	11/5/2004 18:32:00
Receipt Date:	20040806
Manifest ID:	23826830
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES CA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	0.21
Waste Quantity:	50
Quantity Unit:	G

CLEVELAND GOLF (Continued) **1004676661**

Additional 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:	20040805
Creation Date:	1/11/2005 18:31:27
Receipt Date:	20040819
Manifest ID:	23826832
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	AZD009015389
Trans Name:	ROMIC ENVIRONMENTAL TECHNOLOGIES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.627
Waste Quantity:	1254
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:	20040625
Creation Date:	11/1/2004 12:36:11
Receipt Date:	20040706
Manifest ID:	23542631
Trans EPA ID:	IND058484114
Trans Name:	HERITAGE TRANSPORT LLC / SIGNAL HI
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT
TSDF EPA ID:	AZD081705402
Trans Name:	HERITAGE ENVIRONMENTAL SERVICES LL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	NONE
Meth Code:	- Not reported
Quantity Tons:	0.686
Waste Quantity:	1372
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:	2001
Gen EPA ID:	CAR000087973

CLEVELAND GOLF (Continued) **1004676661**

Shipment Date:	20011227
Creation Date:	3/7/2002 0:00:00
Receipt Date:	20020104
Manifest ID:	21466594
Trans EPA ID:	CAT000624247
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	8.428
Waste Quantity:	10
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20011102
Creation Date:	2/20/2002 0:00:00
Receipt Date:	20011107
Manifest ID:	21468176
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050806850
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD050806850
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.188
Waste Quantity:	376
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:	20011005
Creation Date:	1/16/2002 0:00:00
Receipt Date:	20011024
Manifest ID:	20350791
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050806850

CLEVELAND GOLF (Continued) **1004676661**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.705
Waste Quantity:	1410
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:	20010731
Creation Date:	11/1/2001 0:00:00
Receipt Date:	20010808
Manifest ID:	20349374
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050806850
Trans Name:	Not reported
TSDF Alt EPA ID:	65124
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.8
Waste Quantity:	1600
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:	20010621
Creation Date:	10/1/2001 0:00:00
Receipt Date:	20010625
Manifest ID:	20346597
Trans EPA ID:	CAT000624247
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	8.428
Waste Quantity:	10
Quantity Unit:	Y

CLEVELAND GOLF (Continued) **1004676661**

Additional 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:	20010606
Creation Date:	8/24/2001 0:00:00
Receipt Date:	20010613
Manifest ID:	20354390
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050806850
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD050806850
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.376
Waste Quantity:	752
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:	20010420
Creation Date:	8/14/2001 0:00:00
Receipt Date:	20010508
Manifest ID:	20354028
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050806850
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD050806850
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.188
Waste Quantity:	376
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:	20010321
Creation Date:	6/12/2001 0:00:00
Receipt Date:	20010327

CLEVELAND GOLF (Continued) **1004676661**

Manifest ID:	20350941
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050806850
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD050806850
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.282
Waste Quantity:	564
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:	20010321
Creation Date:	6/12/2001 0:00:00
Receipt Date:	20010327
Manifest ID:	20350941
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050806850
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD050806850
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0
Waste Quantity:	0
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010321
Creation Date:	6/12/2001 0:00:00
Receipt Date:	20010327
Manifest ID:	20350941
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD050806850
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD050806850
TSDF Alt Name:	Not reported

CLEVELAND GOLF (Continued) **1004676661**

Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0
Waste Quantity:	0
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	CLEVELAND GOLF
Address:	5630 CERRITOS AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
EPA ID:	CAR000087973
Inactive Date:	06/30/2005
Create Date:	04/03/2001
Last Act Date:	07/06/2010
Mailing Name:	STELLA DELGADO
Mailing Address:	5601 SKYLAB RD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HUNTINGTON BEACH, CA 926470000
Owner Name:	ROSSIGNOL SKI
Owner Address:	5630 CERRITOS AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	CYPRESS, CA 906300000
Contact Name:	CARL CROTTEAU/FAC MGR
Contact Address:	5630 CERRITOS
Contact Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000

NAICS:

EPA ID:	CAR000087973
Create Date:	2002-03-14 16:36:30.000
NAICS Code:	33992
NAICS Description:	Sporting and Athletic Goods Manufacturing
Issued EPA ID Date:	2001-04-03 00:00:00
Inactive Date:	2005-06-30 15:01:00
Facility Name:	CLEVELAND GOLF
Facility Address:	5630 CERRITOS AVE
Facility Address 2:	Not reported
Facility City:	CYPRESS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	906300000

R68 **WCCT GLOBAL LLC** **RCRA NonGen / NLR** **1024847719**
North **5630 CERRITOS AVE** **CAL000402850**
1/8-1/4 **CYPRESS, CA 90630**
0.193 mi.
1021 ft. **Site 2 of 2 in cluster R**

Relative: **Higher**

Actual: **39 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2014-12-11 00:00:00.0
Handler Name:	WCCT GLOBAL LLC	
Handler Address:		5630 CERRITOS AVE
Handler City,State,Zip:		CYPRESS, CA 90630
EPA ID:		CAL000402850
Contact Name:		ANDY PHAM
Contact Address:		5630 CERRITOS AVE
Contact City,State,Zip:		CYPRESS, CA 90630
Contact Telephone:		714-252-0700
Contact Fax:		714-276-6572
Contact Email:		ANDY.PHAM@WCCT.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:		5630 CERRITOS AVE
Mailing City,State,Zip:		CYPRESS, CA 90630
Owner Name:		KENNETH T. KIM, M.D.
Owner Type:		Other
Operator Name:		ANDY PHAM
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

WCCT GLOBAL LLC (Continued) **1024847719**

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:	2018-09-06 17:05:27.0
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:	ANDY PHAM
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5630 CERRITOS AVE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-252-0700
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	KENNETH T. KIM, M.D.
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5630 CERRITOS AVE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-252-0700
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

WCCT GLOBAL LLC (Continued) **1024847719**

Historic Generators:
Receive Date: 2014-12-11 00:00:00.0
Handler Name: WCCT GLOBAL LLC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

O69 **WIRE TECH EDM INC** **RCRA NonGen / NLR** **1024790208**
SW **5450 KATELLA** **CAL000079694**
1/8-1/4 **LOS ALAMITOS, CA 90720**
0.198 mi.
1048 ft. **Site 4 of 4 in cluster O**

Relative: **Lower**
Actual: **34 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 1993-07-15 00:00:00.0
Handler Name: WIRE TECH EDM INC
Handler Address: 5450 KATELLA
Handler City,State,Zip: LOS ALAMITOS, CA 90720-0000
EPA ID: CAL000079694
Contact Name: JACK BEGGS
Contact Address: 5450 KATELLA AVE #110
Contact City,State,Zip: LOS ALAMITOS, CA 90720
Contact Telephone: 562-596-2784
Contact Fax: 562-596-2077
Contact Email: JBEGGS@WIRETECHEDM.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: 5450 KATELLA AVE STE 110
Mailing City,State,Zip: LOS ALAMITOS, CA 90720-0000
Owner Name: JACK E BEGGS

WIRE TECH EDM INC (Continued) **1024790208**

Owner Type:	Other
Operator Name:	JACK BEGGS
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:	2018-09-05 15:42:07.0
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

WIRE TECH EDM INC (Continued) **1024790208**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: JACK BEGGS
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 5450 KATELLA AVE #110
Owner/Operator City,State,Zip: LOS ALAMITOS, CA 90720
Owner/Operator Telephone: 562-596-2784
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: JACK E BEGGS
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 5450 KATELLA AVE #110
Owner/Operator City,State,Zip: LOS ALAMITOS, CA 90720-0000
Owner/Operator Telephone: 562-596-2784
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 1993-07-15 00:00:00.0
Handler Name: WIRE TECH EDM 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

S70 **COSTCO WHOLESALE #748** **UST** **U004263286**
WSW **5401 KATELLA AVE** **N/A**
1/8-1/4 **CYPRESS, CA 90630**
0.199 mi.
1051 ft. **Site 1 of 2 in cluster S**

Relative: **Lower**

Actual: **33 ft.**

UST:

Name:	COSTCO WHOLESALE #748
Address:	5401 KATELLA AVE
City,State,Zip:	CYPRESS, CA 90630
Facility ID:	FA0064582
Permitting Agency:	Orange County Environmental Health
Latitude:	33.80311
Longitude:	-118.03848

S71 **COSTCO WHOLESALE NO 748** **RCRA-LQG** **1007989088**
WSW **5401 KATELLA AVE** **SWRCY** **CAR000160200**
1/8-1/4 **CYPRESS, CA 90630** **CERS HAZ WASTE**
0.199 mi. **HAZNET**
1051 ft. **Site 2 of 2 in cluster S** **CERS**
HWTS

Relative: **Lower**

Actual: **33 ft.**

RCRA-LQG:

Date Form Received by Agency:	2018-03-01 00:00:00.0
Handler Name:	COSTCO WHOLESALE NO 748
Handler Address:	5401 KATELLA AVE
Handler City,State,Zip:	CYPRESS, CA 90630-0000
EPA ID:	CAR000160200
Contact Name:	ROSE THOMPSON
Contact Address:	LAKE DR
Contact City,State,Zip:	ISSAQUAH, WA 98027
Contact Telephone:	425-313-6674
Contact Fax:	Not reported
Contact Email:	RTHOMPSON@COSTCO.COM
Contact Title:	MANAGER, ENVIRONMENTAL SERVICES
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2017
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	GREY HAWK CT, SUITE 200
Mailing City,State,Zip:	CARLSBAD, CA 92010
Owner Name:	COSTCO WHOLESALE CORPORATION
Owner Type:	Private
Operator Name:	COSTCO WHOLESALE CORPORATION
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

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

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:	2018-11-26 18:57:03.0
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: 2017

Click Here for Biennial Reporting System Data:
Year: 2015

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D003
Waste Description:	REACTIVE WASTE
Waste Code:	D004
Waste Description:	ARSENIC
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D006
Waste Description:	CADMIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	D010
Waste Description:	SELENIUM
Waste Code:	D011
Waste Description:	SILVER
Waste Code:	D013
Waste Description:	LINDANE (1,2,3,4,5,6-HEXA-CHLOROCYCLOHEXANE, GAMMA ISOMER)
Waste Code:	D016
Waste Description:	2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)
Waste Code:	D018
Waste Description:	BENZENE
Waste Code:	D022
Waste Description:	CHLOROFORM
Waste Code:	D024
Waste Description:	M-CRESOL
Waste Code:	D026
Waste Description:	CRESOL
Waste Code:	D035
Waste Description:	METHYL ETHYL KETONE
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

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

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: P001
Waste Description: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

Waste Code: P075
Waste Description: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

Waste Code: U010
Waste Description: AZIRINO [2',3':3,4]PYRROLO[1,2-A]INDOLE-4,7-DIONE, 6-AMINO-8-[[(AMINOCARBONYL)OXY]METHYL]-1,1A,2,8,8A,8B-HEXAHYDRO-8A-METHOXY-5-METHYL-, [1AS-(1AALPHA, 8BETA, 8AALPHA, 8BALPHA)]- (OR) MITOMYCIN C

Waste Code: U015
Waste Description: AZASERINE (OR) L-SERINE, DIAZOACETATE (ESTER)

Waste Code: U034
Waste Description: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

Waste Code: U035
Waste Description: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL

Waste Code: U044
Waste Description: CHLOROFORM (OR) METHANE, TRICHLORO-

Waste Code: U057
Waste Description: CYCLOHEXANONE (I)

Waste Code: U058
Waste Description: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE

Waste Code: U059
Waste Description: 5,12-NAPHTHACENEDIONE, 8-ACETYL-10-[(3-AMINO-2,3,6-TRIDEOXY)-ALPHA-L-LYXO-HEXOPYRANOSYL)OXY]-7,8,9,10-TETRAHYDRO-6,8,11-TRIHYDROXY-1-METHOXY-, (8S-CIS)- (OR) DAUNOMYCIN

Waste Code: U075
Waste Description: DICHLORODIFLUOROMETHANE (OR) METHANE, DICHLORODIFLUORO-

Waste Code: U089
Waste Description: DIETHYLSTILBESTEROL (OR) PHENOL, 4,4'-(1,2-DIETHYL-1,2-ETHENEDIYL)BIS, (E)-

Waste Code: U150
Waste Description: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Waste Code: U200
Waste Description: RESERPINE (OR) YOHIMBAN-16-CARBOXYLIC ACID, 11,17-DIMETHOXY-18-[(3,4,5-TRIMETHOXYBENZOYL)OXY]-, METHYL ESTER, (3BETA, 16BETA, 17ALPHA, 18BETA, 20ALPHA)-

Waste Code: U279
Waste Description: U279

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: COSTCO WHOLESALE CORP
Legal Status: Private
Date Became Current: 2005-07-14 00:00:00.
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: Operator
Owner/Operator Name: COSTCO WHOLESALE CORPORATION
Legal Status: Private
Date Became Current: 2004-09-03 00:00:00.
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: COSTCO WHOLESALE CORP
Legal Status: Private
Date Became Current: 2004-09-03 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 999 LAKE DR
Owner/Operator City,State,Zip: ISSAQUAH, WA 98027
Owner/Operator Telephone: 425-313-8100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: COSTCO WHOLESALE CORPORATION
Legal Status: Private
Date Became Current: 2005-07-14 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 999 LAKE DR
Owner/Operator City,State,Zip: ISSAQUAH, WA 98027
Owner/Operator Telephone: 425-313-8100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GREG GARDNER
Legal Status:	Private
Date Became Current:	2004-12-03 00:00:00.
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:	COSTCO WHOLESALE CORPORATION
Legal Status:	Private
Date Became Current:	2005-07-14 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	999 LAKE DR
Owner/Operator City,State,Zip:	ISSAQUAH, WA 98027
Owner/Operator Telephone:	425-313-8100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	RTHOMPSON@COSTCO.COM

Owner/Operator Indicator:	Owner
Owner/Operator Name:	COSTCO WHOLESALE CORP
Legal Status:	Private
Date Became Current:	2004-05-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	999 LAKE DR
Owner/Operator City,State,Zip:	ISSAQUAH, WA 98027
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	COSTCO WHOLESALE CORPORATION
Legal Status:	Private
Date Became Current:	2004-09-03 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	999 LAKE
Owner/Operator City,State,Zip:	ISSAQUAH, WA 98027
Owner/Operator Telephone:	425-313-8100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	RTHOMPSON@COSTCO.COM

Historic Generators:

Receive Date:	2016-08-08 00:00:00.0
Handler Name:	COSTCO WHOLESALE # 748
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

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2018-03-01 00:00:00.0
Handler Name: COSTCO WHOLESALE NO 748
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: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 2005-02-04 00:00:00.0
Handler Name: COSTCO WHOLESALE NO 748
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: 2014-05-05 00:00:00.0
Handler Name: COSTCO WHOLESALE NO 748
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

List of NAICS Codes and Descriptions:
NAICS Code: 44611
NAICS Description: PHARMACIES AND DRUG STORES

NAICS Code: 446110
NAICS Description: PHARMACIES AND DRUG STORES

NAICS Code: 44719
NAICS Description: OTHER GASOLINE STATIONS

NAICS Code: 447190
NAICS Description: OTHER GASOLINE STATIONS

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

NAICS Code: 452311
NAICS Description: WAREHOUSE CLUBS AND SUPERCENTERS

NAICS Code: 45291
NAICS Description: WAREHOUSE CLUBS AND SUPERCENTERS

NAICS Code: 812922
NAICS Description: ONE-HOUR PHOTOFINISHING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

SWRCY:
Name: SUNSET RECYCLING CENTER
Address: 5401 KATELLA AVE
City,State,Zip: CYPRESS, CA 90720
Reg Id: Not reported
Cert Id: RC292816.001
Mailing Address: 13523 Gilmore St
Mailing City: Van Nuys
Mailing State: CA
Mailing Zip Code: 91401
Website: Not reported
Email: Not reported
Phone Number: (818) 661-7387
Rural: N
Operation Begin Date: 09/23/2019
Aluminium: Not reported
Glass: Not reported
Plastic: Not reported
Bimetal: Not reported
Hours of Operation: Mon - Fri 9:00 am - 5:00 pm, Closed 12:00 pm - 12:30 pm; Sat - Sun 9:00 am - 4:00 pm, Closed 12:00 pm - 12:30 pm
Organization ID: Not reported
Organization Name: Sunset Recycling Center

CERS HAZ WASTE:
Name: COSTCO WHOLESALE #748
Address: 5401 KATELLA AVE
City,State,Zip: CYPRESS, CA 90630
Site ID: 108323
CERS ID: 10146305
CERS Description: Hazardous Waste Generator

Name: COSTCO WHOLESALE #748
Address: 5401 KATELLA AVE
City,State,Zip: CYPRESS, CA 90630
Site ID: 108323
CERS ID: 10146305
CERS Description: RCRA LQ HW Generator

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

HAZNET:

Name:	COSTCO WHOLESALE #748
Address:	5401 KATELLA AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 92010
Contact:	MELISSA VALES
Telephone:	7606028700
Mailing Name:	Not reported
Mailing Address:	3207 GREY HAWK CT STE 200
Year:	2019
Gepaid:	CAR000160200
TSD EPA ID:	CAT080013352
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.26880
Year:	2019
Gepaid:	CAR000160200
TSD EPA ID:	AZR000515924
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:	2.04550
Year:	2019
Gepaid:	CAR000160200
TSD EPA ID:	INR000110197
CA Waste Code:	311 - Pharmaceutical waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.00400
Year:	2019
Gepaid:	CAR000160200
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:	0.19550
Year:	2019
Gepaid:	CAR000160200
TSD EPA ID:	CAD008364432
CA Waste Code:	311 - Pharmaceutical waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.01800
Year:	2019
Gepaid:	CAR000160200
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)

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Tons: 0.00250

Year: 2019
Gepaid: CAR000160200
TSD EPA ID: NVD980895338
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: 0.01700

Year: 2019
Gepaid: CAR000160200
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: 0.19200

Year: 2019
Gepaid: CAR000160200
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: 0.01650

Year: 2019
Gepaid: CAR000160200
TSD EPA ID: NVT330010000
CA Waste Code: 352 - Other organic solids
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.27500

Click this hyperlink while viewing on your computer to access
111 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2008
Gen EPA ID: CAR000160200

Shipment Date: 20080821
Creation Date: 1/7/2009 18:30:08
Receipt Date: 20080829
Manifest ID: 001293125SKS
Trans EPA ID: TXR000050930
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: OKD981588791
Trans 2 Name: TRIAD TRANSPORT INC
TSDF EPA ID: TXD077603371
Trans Name: SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code: D018
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Quantity Tons:	0.05
Waste Quantity:	100
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:	20080425
Creation Date:	7/3/2008 18:30:14
Receipt Date:	20080429
Manifest ID:	000654526SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	2.04747
Waste Quantity:	491
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:	20080423
Creation Date:	9/10/2008 18:30:32
Receipt Date:	20080502
Manifest ID:	000654527SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D018
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.075
Waste Quantity:	150
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

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Additional Info:

Year:	2010
Gen EPA ID:	CAR000160200
Shipment Date:	20101218
Creation Date:	2/23/2011 18:30:25
Receipt Date:	20101230
Manifest ID:	006054407JJK
Trans EPA ID:	CAD003963592
Trans Name:	ECS REFINING
Trans 2 EPA ID:	CAR000188201
Trans 2 Name:	ENVIRONMENTAL RECOVERY SERVICES
TSDF EPA ID:	CAD003963592
Trans Name:	ECS REFINING TEXAS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101216
Creation Date:	6/20/2011 18:30:31
Receipt Date:	20101217
Manifest ID:	007429234JJK
Trans EPA ID:	OKD987096328
Trans Name:	JANUARY TRANSPORT INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D018
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101214
Creation Date:	3/30/2011 18:30:55
Receipt Date:	20101223

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Manifest ID:	006054404JJK
Trans EPA ID:	CAD003963592
Trans Name:	ECS REFINING
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD003963592
Trans Name:	ECS REFINING TEXAS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20101019
Creation Date:	3/30/2011 18:30:29
Receipt Date:	20101029
Manifest ID:	005755769JJK
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	OHD083377010
Trans Name:	ENVIRONMENTAL ENTERPRISES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0265
Waste Quantity:	53
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:	20100915
Creation Date:	2/18/2011 18:30:17
Receipt Date:	20100917
Manifest ID:	007429038JJK
Trans EPA ID:	OKD987096328
Trans Name:	JANUARY TRANSPORT INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D018
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100915
Creation Date:	2/18/2011 18:30:17
Receipt Date:	20100917
Manifest ID:	007429038JJK
Trans EPA ID:	OKD987096328
Trans Name:	JANUARY TRANSPORT INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D018
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.2085
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100722
Creation Date:	1/27/2011 18:30:23
Receipt Date:	20100811
Manifest ID:	007402365JJK
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	SCR000770073
Trans Name:	KILN DIRECT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100722
Creation Date:	1/27/2011 18:30:23
Receipt Date:	20100811
Manifest ID:	007402365JJK
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	SCR000770073
Trans Name:	KILN DIRECT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	Not reported
Meth Code:	- Not reported
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
Shipment Date:	20100722
Creation Date:	1/26/2011 18:30:24
Receipt Date:	20100819
Manifest ID:	007402364JJK
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:	OHD083377010
Trans Name:	ENVIRONMENTAL ENTERPRISES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H050 - Energy Recovery At This Site--Use As Fuel(Includes On-Site Fuel Blending)
Quantity Tons:	0.0045
Waste Quantity:	9
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:	20100625
Creation Date:	1/24/2011 18:30:44
Receipt Date:	20100702

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Manifest ID:	006355701JJK
Trans EPA ID:	OKD987096328
Trans Name:	JANUARY TRANSPORT INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D018
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2014
Gen EPA ID:	CAR000160200
Shipment Date:	20141125
Creation Date:	6/26/2015 22:15:41
Receipt Date:	20141203
Manifest ID:	007639408FLE
Trans EPA ID:	CAR000183913
Trans Name:	BELSHIRE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA OPERATIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141105
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007319941FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Trans 2 EPA ID:	CAR000216770
Trans 2 Name:	CATRANS
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.007
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:	20141105
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007319941FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000216770
Trans 2 Name:	CATRANS
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0065
Waste Quantity:	13
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:	20141105
Creation Date:	1/15/2015 22:14:55
Receipt Date:	20141107
Manifest ID:	007319941FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000216770
Trans 2 Name:	CATRANS
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

RCRA Code:	P075
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:	20141105
Creation Date:	1/15/2015 22:14:55
Receipt Date:	20141107
Manifest ID:	007319941FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000216770
Trans 2 Name:	CATRANS
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141105
Creation Date:	1/15/2015 22:14:55
Receipt Date:	20141107
Manifest ID:	007319941FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000216770
Trans 2 Name:	CATRANS
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
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
Additional Code 1:	Not reported

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141105
Creation Date:	1/15/2015 22:14:55
Receipt Date:	20141107
Manifest ID:	007319941FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000216770
Trans 2 Name:	CATRANS
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	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:	20141105
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007319941FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000216770
Trans 2 Name:	CATRANS
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:	0.106
Waste Quantity:	212
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:	20141105
Creation Date:	Not reported

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Receipt Date:	Not reported
Manifest ID:	007319941FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000216770
Trans 2 Name:	CATRANS
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.022
Waste Quantity:	44
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:	20141105
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007319941FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000216770
Trans 2 Name:	CATRANS
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
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0645
Waste Quantity:	129
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:	2006
Gen EPA ID:	CAR000160200

Shipment Date:	20061024
Creation Date:	3/30/2007 13:32:20
Receipt Date:	20061024
Manifest ID:	000100299CEX
Trans EPA ID:	TXR000050930

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080013352
Trans Name: DEMENNO / KERDOON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 222 - Oil/water separation sludge
RCRA Code: Not reported
Meth Code: H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Quantity Tons: 1.32189
Waste Quantity: 317
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2017
Gen EPA ID: CAR000160200

Shipment Date: 20171208
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 010142104FLE
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: 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: 0.082
Waste Quantity: 164
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: 20171208
Creation Date: 7/5/2018 18:32:15
Receipt Date: 20171218
Manifest ID: 010142104FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: CAR000217554
Trans 2 Name: CRUZ CONTAINERS LOGISTICS INC

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

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
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171208
Creation Date:	7/5/2018 18:32:15
Receipt Date:	20171218
Manifest ID:	010142104FLE
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:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0055
Waste Quantity:	11
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:	20171208
Creation Date:	7/5/2018 18:32:15
Receipt Date:	20171218
Manifest ID:	010142104FLE
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:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0165
Waste Quantity:	33
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:	20171208
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	010142104FLE
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:	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:	0.0495
Waste Quantity:	99
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171208
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	010142104FLE
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:	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:	0.0895
Waste Quantity:	179
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171208
Creation Date:	7/5/2018 18:32:15
Receipt Date:	20171218
Manifest ID:	010142104FLE
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:	331 - Off-specification, aged, or surplus organics
RCRA Code:	U057
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:	D016
Additional Code 2:	D011
Additional Code 3:	D010
Additional Code 4:	D007
Additional Code 5:	Not reported
Shipment Date:	20171208
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	010142104FLE
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:	311 - Pharmaceutical waste
RCRA Code:	D026
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
Additional Code 1:	D011
Additional Code 2:	D010
Additional Code 3:	D005
Additional Code 4:	D004
Additional Code 5:	Not reported
Shipment Date:	20171208
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	010142104FLE

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

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: 311 - Pharmaceutical waste
RCRA Code: P001
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
Additional 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: 20171208
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 010142104FLE
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: 311 - Pharmaceutical waste
RCRA Code: P075
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
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2011
Gen EPA ID: CAR000160200

Shipment Date: 20111223
Creation Date: 3/28/2012 20:30:34
Receipt Date: 20120105
Manifest ID: 008780435JJK
Trans EPA ID: CAD003963592
Trans Name: ECS REFINING
Trans 2 EPA ID: CAR000188201

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Trans 2 Name:	ENVIRONMENTAL RECOVERY SERVICES
TSDF EPA ID:	CAD003963592
Trans Name:	ECS REFINING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.35445
Waste Quantity:	85
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:	20111216
Creation Date:	3/16/2012 20:30:17
Receipt Date:	20111222
Manifest ID:	008780569JJK
Trans EPA ID:	CAD003963592
Trans Name:	ECS REFINING
Trans 2 EPA ID:	CAR000188201
Trans 2 Name:	ENVIRONMENTAL RECOVERY SERVICES
TSDF EPA ID:	CAD003963592
Trans Name:	ECS REFINING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	D011
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111210
Creation Date:	4/26/2012 20:30:19
Receipt Date:	20111227
Manifest ID:	004706259FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0325
Waste Quantity:	65
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:	20111210
Creation Date:	4/26/2012 20:30:19
Receipt Date:	20111227
Manifest ID:	004706259FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0055
Waste Quantity:	11
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111210
Creation Date:	4/26/2012 20:30:19
Receipt Date:	20111227
Manifest ID:	004706259FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	561 - Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.012
Waste Quantity:	24
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111116
Creation Date:	6/15/2012 20:30:07
Receipt Date:	20111118
Manifest ID:	008657875JJK
Trans EPA ID:	OKD987096328
Trans Name:	JANUARY TRANSPORT INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D018
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110913
Creation Date:	3/22/2012 20:30:23
Receipt Date:	20110929
Manifest ID:	004969213FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
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:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110913
Creation Date:	3/22/2012 20:30:23
Receipt Date:	20110929
Manifest ID:	004969213FLE

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0415
Waste Quantity:	83
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20110913
Creation Date:	3/22/2012 20:30:23
Receipt Date:	20110929
Manifest ID:	004969213FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	561 - Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
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:	20110912
Creation Date:	11/28/2012 22:15:25
Receipt Date:	20110929
Manifest ID:	004790950FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT EXPRESSWAY
TSDF EPA ID:	UTD991301748
Trans Name:	CLEAN HARBORS GRASSY MOUNTAIN LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.04
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

Additional Info:

Year:	2009
Gen EPA ID:	CAR000160200
Shipment Date:	20090921
Creation Date:	3/5/2010 18:31:00
Receipt Date:	20090929
Manifest ID:	002137619SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	241 - Tank bottom waste 251 Still bottoms with halogenated organics
RCRA Code:	D018
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.458
Waste Quantity:	916
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:	20090921
Creation Date:	3/5/2010 18:31:00
Receipt Date:	20090929
Manifest ID:	002137619SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D018
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.125

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Waste Quantity:	250
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:	20090609
Creation Date:	10/13/2009 18:30:21
Receipt Date:	20090622
Manifest ID:	001720379SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D018
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.05
Waste Quantity:	100
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:	20090507
Creation Date:	6/30/2009 18:30:19
Receipt Date:	20090511
Manifest ID:	001943058SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	2.502
Waste Quantity:	600
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Shipment Date:	20090204
Creation Date:	6/4/2009 18:30:08
Receipt Date:	20090216
Manifest ID:	001720105SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D018
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.05
Waste Quantity:	100
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:	20090204
Creation Date:	6/4/2009 18:30:08
Receipt Date:	20090216
Manifest ID:	001720105SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	241 - Tank bottom waste 251 Still bottoms with halogenated organics
RCRA Code:	D018
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2016
Gen EPA ID:	CAR000160200

Shipment Date:	20151222
Creation Date:	3/22/2016 22:15:58
Receipt Date:	20151230
Manifest ID:	008444286FLE
Trans EPA ID:	MNS000110924

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

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:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0165
Waste Quantity:	33
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:	20151222
Creation Date:	3/22/2016 22:15:58
Receipt Date:	20151230
Manifest ID:	008444286FLE
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:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.006
Waste Quantity:	12
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:	20151222
Creation Date:	3/22/2016 22:15:58
Receipt Date:	20151230
Manifest ID:	008444286FLE
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

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0595
Waste Quantity:	119
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:	20151222
Creation Date:	3/22/2016 22:15:58
Receipt Date:	20151230
Manifest ID:	008444286FLE
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:	311 - Pharmaceutical waste
RCRA Code:	P001
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
Additional 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:	20151222
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008444286FLE
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:	311 - Pharmaceutical waste
RCRA Code:	D011
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

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Additional Code 1:	D010
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151222
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008444286FLE
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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004
Waste Quantity:	8
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:	20151222
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008444286FLE
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:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151222

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008444286FLE
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:	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:	0.2615
Waste Quantity:	523
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:	20151222
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008444286FLE
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:	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:	0.21
Waste Quantity:	420
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:	20151222
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008444286FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

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: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.0155
Waste Quantity: 31
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: CAR000160200

Shipment Date: 20151222
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 008444286FLE
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: 0.0075
Waste Quantity: 15
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151222
Creation Date: 3/22/2016 22:15:58
Receipt Date: 20151230
Manifest ID: 008444286FLE
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

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.006
Waste Quantity:	12
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:	20151222
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008444286FLE
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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004
Waste Quantity:	8
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:	20151222
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008444286FLE
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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0155
Waste Quantity:	31

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

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:	20151222
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008444286FLE
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:	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:	0.21
Waste Quantity:	420
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:	20151222
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008444286FLE
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:	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:	0.2615
Waste Quantity:	523
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

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Shipment Date:	20151222
Creation Date:	3/22/2016 22:15:58
Receipt Date:	20151230
Manifest ID:	008444286FLE
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:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0165
Waste Quantity:	33
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:	20151222
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008444286FLE
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:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0215
Waste Quantity:	43
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:	20151222
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008444286FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

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: 311 - Pharmaceutical waste
RCRA Code: D011
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
Additional Code 1: D010
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151222
Creation Date: 3/22/2016 22:15:58
Receipt Date: 20151230
Manifest ID: 008444286FLE
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: 311 - Pharmaceutical waste
RCRA Code: P001
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
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2012
Gen EPA ID: CAR000160200

Shipment Date: 20121114
Creation Date: 4/17/2013 22:15:43
Receipt Date: 20121121
Manifest ID: 005774991FLE
Trans EPA ID: CAR000183913
Trans Name: BELSHIRE
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: NVT330010000
Trans Name: US ECOLOGY NEVADA OPERATIONS

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
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:	20121102
Creation Date:	1/5/2013 22:15:31
Receipt Date:	20121113
Manifest ID:	000398924PSC
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:	181 - Other inorganic solid waste Organics
RCRA Code:	D011
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:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121026
Creation Date:	4/3/2013 22:15:15
Receipt Date:	20121109
Manifest ID:	005509788FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0055

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Waste Quantity:	11
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:	20121026
Creation Date:	4/3/2013 22:15:15
Receipt Date:	20121109
Manifest ID:	005509788FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
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:	0.0135
Waste Quantity:	27
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:	20121026
Creation Date:	4/3/2013 22:15:15
Receipt Date:	20121109
Manifest ID:	005509788FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0275
Waste Quantity:	55
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Shipment Date:	20121026
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	005509788FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	P001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20121026
Creation Date:	4/3/2013 22:15:15
Receipt Date:	20121109
Manifest ID:	005509788FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1015
Waste Quantity:	203
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:	20121026
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	005509788FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	561 - Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.152
Waste Quantity:	304
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:	20120904
Creation Date:	11/22/2012 22:15:21
Receipt Date:	20120913
Manifest ID:	004664942FLE
Trans EPA ID:	CAR000183913
Trans Name:	BELSHIRE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.021
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120904
Creation Date:	2/3/2013 22:15:07
Receipt Date:	20120905
Manifest ID:	004664941FLE
Trans EPA ID:	CAR000183913
Trans Name:	BELSHIRE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA OPERATIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

	Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAR000160200
Shipment Date:	20131203
Creation Date:	4/24/2014 22:14:56
Receipt Date:	20131219
Manifest ID:	006268408FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	D011
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
Additional Code 1:	D010
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131203
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006268408FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.1305
Waste Quantity:	261
Quantity Unit:	P

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Additional 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:	20131203
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006268408FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.0775
Waste Quantity:	155
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:	20131203
Creation Date:	4/24/2014 22:14:56
Receipt Date:	20131219
Manifest ID:	006268408FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
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
Shipment Date:	20131203
Creation Date:	4/24/2014 22:14:56

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Receipt Date:	20131219
Manifest ID:	006268408FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	U034
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
Additional 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:	20131203
Creation Date:	4/24/2014 22:14:56
Receipt Date:	20131219
Manifest ID:	006268408FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	P001
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
Additional 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:	20131203
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006268408FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131203
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006268408FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.007
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:	20131203
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006268408FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0515

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Waste Quantity:	103
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:	20131203
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006268408FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0405
Waste Quantity:	81
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:	CAR000160200
Shipment Date:	20071210
Creation Date:	5/15/2008 18:30:08
Receipt Date:	20071226
Manifest ID:	000653242SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	241 - Tank bottom waste 251 Still bottoms with halogenated organics
RCRA Code:	D018
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	D001
Additional Code 2:	Not reported

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071210
Creation Date:	5/15/2008 18:30:08
Receipt Date:	20071226
Manifest ID:	000653242SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D018
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.1
Waste Quantity:	200
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:	20070919
Creation Date:	3/4/2008 18:31:02
Receipt Date:	20070925
Manifest ID:	000574539SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D018
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	Not reported
Waste Quantity:	100
Quantity Unit:	X
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:	20070919
Creation Date:	3/4/2008 18:31:02
Receipt Date:	20070925
Manifest ID:	000574539SKS
Trans EPA ID:	TXR000050930

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	241 - Tank bottom waste 251 Still bottoms with halogenated organics
RCRA Code:	D018
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.05
Waste Quantity:	100
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:	20070305
Creation Date:	6/4/2008 18:30:36
Receipt Date:	20070313
Manifest ID:	000220503SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D018
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.05
Waste Quantity:	100
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

CERS:

Name:	COSTCO WHOLESALE #748
Address:	5401 KATELLA AVE
City,State,Zip:	CYPRESS, CA 90630
Site ID:	108323
CERS ID:	10146305
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	108323
Site Name:	Costco Wholesale #748
Violation Date:	09-21-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

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 12/27/2017. The following hazardous materials and wastes were reported in the Hazardous Materials Inventory and were not observed at a volume above which is required to be reported (see violation). Please remove them from the Hazardous Materials Inventory: - Liquid Petroleum Gas - Waste Absorbent - Waste State Regulated Liquids - Waste State Regulated Solids Resubmit the Hazardous Materials Inventory within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 09-17-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Accepted: HMBEP Approval. The following documents were received and ACCEPTED on CERS: Business Activities Form Business Owner/Operator Form Chemical Inventory (for 12 chemicals) Facility Site Map Emergency Response/Contingency Plan Employee Training Plan
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-21-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. Consent to inspect was provided by Brenda Simmons. Hazardous waste disposals are conducted monthly. Municipal dumpster area does not contain any hazardous waste. The perimeter of the facility was also inspected; no signs of releases were noted. Emergency Response Information was complete. Hazardous waste containers were properly labeled and covered. Reviewed manifests, bills of lading and consolidated manifests for all hazardous waste streams. For further information about Hazardous Waste management, please refer to the Orange County CUPA website at www.occupainfo.com and open the PDF G Hazardous Waste the BasicsG . No hazardous waste violations noted today.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-21-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Consent to inspect was provided by Brenda Simmmons. A walk through of the facility was conducted. The following Hazardous Substances were observed being stored at above the reporting threshold: HM - CO2 - R-22 - Oven Cleaner and other Cleaning Solutions - R/ O Free Rinse Additive - Diesel Fuel - Lead Acid Batteries This facility is responsible for identifying all hazardous materials and

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

hazardous wastes, which are above the following disclosure thresholds: Solids > 500 pounds. Liquids > or = 55 gallons Gas > or = 200 cubic feet The following hazardous materials and wastes were reported in the Hazardous Materials Inventory and were not observed at a volume above which is required to be reported (see violation). Please remove them from the Hazardous Materials Inventory: - Liquid Petroleum Gas - Waste Absorbent - Waste State Regulated Liquids - Waste State Regulated [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-03-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and accepted the CERs disclosure.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-27-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The facility has disclosed the following Hazardous Materials at above the reportable volume for disclosure in CERS. - Liquid Petroleum Gas - Waste Absorbent - Waste State Regulated Liquids - Waste State Regulated Solids It is no longer a violation for reporting these components if the facility reports above the reportable volume but does not store this volume at the time of the inspection. Violation I169 is corrected.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-28-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Submission under review.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-03-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Disclosure Business Emergency Plan (HMBEP) inspection. Met with Store Manager on duty Sal Reyes of Costco. Consent was provided to enter and conduct inspection activities. Costco has submitted the HMBEP into the California Environmental Reporting System (CERS) database and was accepted. The following were verified: - Chemical Disclosure - Contingency plan/BEP, and; - Training program. Please note that if the facility decides to discontinue any of the above chemicals, proper disposal or removal of

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

chemicals is required and maintenance of disposal records will be verified. Within 30 days of removal, contact this agency to verify that the hazardous material is no longer stored on site and remove it from the facility's listed disclosable chemicals.

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-01-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed facility's CERS HMBEP Submission. All submittal elements have been accepted.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-23-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed facility's CERS HMBEP Submission. All submittal elements have been accepted.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-21-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. Met with facility supervisor Donnie Gentry, who gave consent to enter and inspect the facility. Hazardous waste observed on site include: - Waste products that exhibit corrosive, acidic, flammable, and toxic properties. In addition, waste pharmaceuticals and waste silver columns were observed. All containers used to store hazardous waste were labeled and properly closed. Hazardous waste manifests for all hazardous waste streams were available for review. Perimeter of the facility and the municipal dumpster was inspected. Did not observe any indication of a hazardous waste release or illegal dumping along the perimeter of the facility. The Hazardous Waste Emergency Response information was available in the business emergency plan.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-12-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Diana, of San Diego's Western Pump, called for modification "permit" info to install Veeder-Root "BIR" enhancement software; project expected to involve a "cold start" of the UST monitoring system. I reviewed the EHD Modification listing, and confirmed with Supervisor Terry Carrier, that no plan check is required. I contacted Diana with

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

the info; post software monitoring certification report to be sent to EHD. other Costco sites to receive BIR on this project: (La Habra, Cypress, Huntington Beach, Irvine). - - GZ email reply to Diana Hello- I reviewed our listing of UST plan check G permitG items on our (www.occupainfo.com) website. I also confirmed with Terry Carrier, an inspection supervisor. No permit/plan check required for the BIR work and subsequent G cold startG . Please send a copy of the post software install monitoring certification report to this agency. From: Diana Duarte [mailto:dianad@westernpump.com] Sent: Thursday, September 12, 2013 11:07 [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Affiliation:

Affiliation Type Desc: Document Preparer
Entity Name: John Koning, Agent for Costco Wholesale Corporation
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Global Sustainability and Compliance Attn: Sharon Saknit
Entity Title: Not reported
Affiliation Address: 1045 Lake Drive
Affiliation City: Issaquah
Affiliation State: WA
Affiliation Country: Not reported
Affiliation Zip: 98027
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: John Koning, Agent for Costco Wholesale Corporation
Entity Title: Regulatory Compliance Specialist, Verisk 3E
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Costco Wholesale Corporation
Entity Title: Not reported
Affiliation Address: 999 Lake Drive
Affiliation City: Issaquah
Affiliation State: WA
Affiliation Country: United States
Affiliation Zip: 98027
Affiliation Phone: (425) 313-8100

Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6406

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: Costco Licensing, PO Box 35005
Affiliation City: Seattle
Affiliation State: WA
Affiliation Country: Not reported
Affiliation Zip: 98124-3405
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: Costco
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Costco Wholesale Corporation
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: (425) 313-8100

HWTS:
Name: COSTCO WHOLESALE #748
Address: 5401 KATELLA AVE
Address 2: Not reported
City,State,Zip: CYPRESS, CA 906300000
EPA ID: CAR000160200
Inactive Date: Not reported
Create Date: 04/14/2005
Last Act Date: 08/06/2020
Mailing Name: Not reported
Mailing Address: 3207 GREY HAWK CT STE 200
Mailing Address 2: Not reported
Mailing City,State,Zip: CARLSBAD, CA 92010
Owner Name: COSTCO
Owner Address: 999 LAKE DR
Owner Address 2: Not reported
Owner City,State,Zip: ISSAQUAH, WA 980270000
Contact Name: JOHN KONING

COSTCO WHOLESALE NO 748 (Continued) **1007989088**

Contact Address: 3207 GREY HAWK CT., SUITE 200
Contact Address 2: Not reported
City,State,Zip: CARLSBAD, CA 920100000

NAICS:
EPA ID: CAR000160200
Create Date: 2005-09-27 15:01:35.000
NAICS Code: 45299
NAICS Description: All Other General Merchandise Stores
Issued EPA ID Date: 2005-04-14 15:01:00
Inactive Date: Not reported
Facility Name: COSTCO WHOLESALE #748
Facility Address: 5401 KATELLA AVE
Facility Address 2: Not reported
Facility City: CYPRESS
Facility County: Not reported
Facility State: CA
Facility Zip: 906300000

T72 **TEXACO STATION #61-106-0029** **LUST U003721221**
NE **6000 CERRITOS AVE** **UST N/A**
1/8-1/4 **CYPRESS, CA 90630** **HIST UST**
0.203 mi. **CERS**
1070 ft. **Site 1 of 14 in cluster T**

Relative: Higher
Actual: 42 ft.

ORANGE CO. LUST:
Name: TEXACO
Address: 6000 CERRITOS AVE
City,State,Zip: CYPRESS, CA 90630
Region: ORANGE
Facility Id: 87UT200
Released Substance: Waste oil/Used oil; Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 09/28/1992
Record ID: RO0000985

Name: TEXACO
Address: 6000 CERRITOS AVE
City,State,Zip: CYPRESS, CA 90630
Region: ORANGE
Facility Id: 03UT029
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 03/30/2005
Record ID: RO0003211

LUST:
Name: TEXACO
Address: 6000 CERRITOS
City,State,Zip: CYPRESS, CA 90630
Lead Agency: ORANGE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605948555
Global Id: T0605948555
Latitude: 33.809478
Longitude: -118.027665
Status: Completed - Case Closed
Status Date: 12/21/2004

TEXACO STATION #61-106-0029 (Continued) **U003721221**

Case Worker: TE
RB Case Number: Not reported
Local Agency: ORANGE COUNTY LOP
File Location: Local Agency Warehouse
Local Case Number: 03UT029
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0605948555
Contact Type: Regional Board Caseworker
Contact Name: MIGUEL OVIEDO
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 Main Street, Suite 500
City: RIVERSIDE
Email: miguel.oviedo@waterboards.ca.gov
Phone Number: 9517823238

Global Id: T0605948555
Contact Type: Local Agency Caseworker
Contact Name: TAMARA ESCOBEDO
Organization Name: ORANGE COUNTY LOP
Address: 1241 EAST DYER ROAD SUITE 120
City: SANTA ANA
Email: tescobedo@ochca.com
Phone Number: 7144336251

LUST:
Global Id: T0605948555
Action Type: ENFORCEMENT
Date: 08/10/2020
Action: Historic Files

Global Id: T0605948555
Action Type: ENFORCEMENT
Date: 03/30/2005
Action: Closure/No Further Action Letter

Global Id: T0605948555
Action Type: ENFORCEMENT
Date: 07/16/2003
Action: Notice of Responsibility

Global Id: T0605948555
Action Type: ENFORCEMENT
Date: 12/19/2003
Action: Staff Letter

Global Id: T0605948555
Action Type: ENFORCEMENT
Date: 03/22/2004
Action: Staff Letter

Global Id: T0605948555
Action Type: ENFORCEMENT
Date: 11/10/2004

TEXACO STATION #61-106-0029 (Continued) **U003721221**

Action: Staff Letter

Global Id: T0605948555
Action Type: Other
Date: 06/20/2003
Action: Leak Discovery

Global Id: T0605948555
Action Type: Other
Date: 07/16/2003
Action: Leak Reported

Global Id: T0605948555
Action Type: ENFORCEMENT
Date: 12/22/2004
Action: LOP Case Closure Summary to RB

LUST:
Global Id: T0605948555
Status: Open - Case Begin Date
Status Date: 06/20/2003

Global Id: T0605948555
Status: Open - Site Assessment
Status Date: 06/20/2003

Global Id: T0605948555
Status: Open - Site Assessment
Status Date: 10/31/2003

Global Id: T0605948555
Status: Completed - Case Closed
Status Date: 12/21/2004

Name: TEXACO
Address: 6000 CERRITOS
City,State,Zip: CYPRESS, CA 90630
Lead Agency: ORANGE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900568
Global Id: T0605900568
Latitude: 33.809494
Longitude: -118.027659
Status: Completed - Case Closed
Status Date: 09/28/1992
Case Worker: TE
RB Case Number: 083000718T
Local Agency: ORANGE COUNTY LOP
File Location: Local Agency
Local Case Number: 87UT200
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating, Gasoline
Site History: Not reported

LUST:
Global Id: T0605900568

TEXACO STATION #61-106-0029 (Continued) **U003721221**

Contact Type: Regional Board Caseworker
Contact Name: ROSE SCOTT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: rose.scott@waterboards.ca.gov
Phone Number: 9513206375

Global Id: T0605900568
Contact Type: Local Agency Caseworker
Contact Name: TAMARA ESCOBEDO
Organization Name: ORANGE COUNTY LOP
Address: 1241 EAST DYER ROAD SUITE 120
City: SANTA ANA
Email: tescobedo@ochca.com
Phone Number: 7144336251

LUST:
Global Id: T0605900568
Action Type: ENFORCEMENT
Date: 08/10/2020
Action: Historic Files

Global Id: T0605900568
Action Type: Other
Date: 09/25/1987
Action: Leak Discovery

Global Id: T0605900568
Action Type: Other
Date: 09/25/1987
Action: Leak Reported

LUST:
Global Id: T0605900568
Status: Open - Case Begin Date
Status Date: 09/25/1987

Global Id: T0605900568
Status: Completed - Case Closed
Status Date: 09/28/1992

UST:
Name: TEXACO STATION #61-106-0029
Address: 6000 CERRITOS AVE
City,State,Zip: CYPRESS, CA 90630
Facility ID: 2045
Permitting Agency: ORANGE COUNTY
Latitude: 33.810846
Longitude: -118.026316

HIST UST:
Name: TEXACO
Address: 6000 CERRITOS AND VALLEY VIEW

TEXACO STATION #61-106-0029 (Continued) **U003721221**

City,State,Zip:	CYPRESS, CA 90603
File Number:	0002EEEE
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002EEEE.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:

CERS:

Name:	TEXACO
Address:	6000 CERRITOS
City,State,Zip:	CYPRESS, CA 90630
Site ID:	187389
CERS ID:	T0605948555
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	ROSE SCOTT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9513206375
Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	TAMARA ESCOBEDO - ORANGE COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1241 EAST DYER ROAD SUITE 120
Affiliation City:	SANTA ANA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7144336251
Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	MIGUEL OVIEDO - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported

TEXACO STATION #61-106-0029 (Continued) **U003721221**

Affiliation Address: 3737 Main Street, Suite 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517823238

Name: TEXACO
Address: 6000 CERRITOS
City,State,Zip: CYPRESS, CA 90630
Site ID: 187389
CERS ID: T0605900568
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: ROSE SCOTT - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9513206375

Affiliation Type Desc: Local Agency Caseworker
Entity Name: TAMARA ESCOBEDO - ORANGE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1241 EAST DYER ROAD SUITE 120
Affiliation City: SANTA ANA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7144336251

Affiliation Type Desc: Regional Board Caseworker
Entity Name: MIGUEL OVIEDO - 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: 9517823238

T73 **SEMAAN TEXACO** **HIST UST** **1000143755**
NE **6000 CERRITOS AV** **N/A**
1/8-1/4 **CYPRESS, CA 90630**
0.203 mi.
1070 ft. **Site 2 of 14 in cluster T**

Relative:
Higher

Actual:
42 ft.

HIST UST:
Name: SEMAAN TEXACO
Address: 6000 CERRITOS AV
City,State,Zip: CYPRESS, CA 90630
File Number: 0002EC00

SEMAAN TEXACO (Continued) **1000143755**

URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002EC00.pdf
Region:	STATE
Facility ID:	00000056449
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	NASR SEMAAN
Telephone:	7148219060
Owner Name:	NASR I. SEMAAN
Owner Address:	6063 CERRITOS AV.
Owner City,St,Zip:	BUENA PARK, CA 90620
Total Tanks:	0005
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test
Tank Num:	004
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test
Tank Num:	005
Container Num:	5
Year Installed:	Not reported
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test

SEMAAN TEXACO (Continued) **1000143755**

Click here for Geo Tracker PDF:

T74 **TEXACO SERVICE STATION** **HIST CORTESE** **S103666308**
NE **6000 CERRITOS** **N/A**
1/8-1/4 **CYPRESS, CA 90603**
0.203 mi.
1070 ft. **Site 3 of 14 in cluster T**

Relative: HIST CORTESE:
Higher
Actual: edr_fname: TEXACO SERVICE STATION
42 ft. edr_fadd1: 6000 CERRITOS
City,State,Zip: CYPRESS, CA 90603
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083000718T

T75 **TEXACO STATION #61-106-0029** **CA FID UST** **S101609620**
NE **6000 CERRITOS AVE** **N/A**
1/8-1/4 **CYPRESS, CA 90630**
0.203 mi.
1070 ft. **Site 4 of 14 in cluster T**

Relative: CA FID UST:
Higher
Actual: Facility ID: 30000724
42 ft. Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7144348617
Mail To: Not reported
Mailing Address: 3631 HBR BLVD STE 225 PAU
Mailing Address 2: Not reported
Mailing City,St,Zip: CYPRESS 90630
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

T76 **TEXACO SERVICE STATION** **LUST** **1004676854**
NE **6000 CERRITOS AVENUE** **RCRA NonGen / NLR** **CAR000090340**
1/8-1/4 **CYPRESS, CA 90630** **FINDS**
0.203 mi. **ECHO**
1070 ft. **Site 5 of 14 in cluster T**

Relative: LUST REG 8:
Higher
Actual: Name: TEXACO
42 ft. Address: 6000 CERRITOS AVE
City: CYPRESS
Region: 8
County: Orange
Regional Board: Santa Ana Region

TEXACO SERVICE STATION (Continued) **1004676854**

Facility Status:	Pollution Characterization
Case Number:	Not reported
Local Case Num:	03UT029
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	SEL
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Close Tank
Leak Cause:	Unknown
Leak Source:	Piping
Global ID:	T0605948555
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	6/20/2003
Date Preliminary Assessment Began:	Not reported
Discover Date:	6/20/2003
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	10/31/2003
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:	=
Soil Qualifies:	=
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	0
Longitude:	0
MTBE Date:	6/1/2004
Max MTBE GW:	35
MTBE Concentration:	0
Max MTBE Soil:	45
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	TME
Staff Initials:	AR
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

RCRA NonGen / NLR:

Date Form Received by Agency:	2018-12-17 00:00:00.0
Handler Name:	TEXACO SERVICE STATION

TEXACO SERVICE STATION (Continued) **1004676854**

Handler Address:	6000 CERRITOS AVENUE
Handler City,State,Zip:	CYPRESS, CA 90630
EPA ID:	CAR000090340
Contact Name:	TESSA BEMIS
Contact Address:	285 DELAWARE AVE STE 500
Contact City,State,Zip:	BUFFALO, NY 14202
Contact Telephone:	716-362-8847
Contact Fax:	Not reported
Contact Email:	TESSA.BEMIS@GHD.COM
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
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	SHELL OIL PRODUCTS US
Mailing City,State,Zip:	HOUSTON, TX 77067-2508
Owner Name:	EQUILON ENTERPRISES LLC
Owner Type:	Private
Operator Name:	SHELL OIL PRODUCTS US
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

TEXACO SERVICE STATION (Continued) **1004676854**

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:	2019-01-08 17:15:56.0
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: 2003

Click Here for Biennial Reporting System Data:

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 LLC
Legal Status:	Private
Date Became Current:	1998-08-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 2648
Owner/Operator City,State,Zip:	HOUSTON, TX 77252
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SHELL OIL PRODUCTS US
Legal Status:	Private
Date Became Current:	1998-08-01 00:00:00.

TEXACO SERVICE STATION (Continued) **1004676854**

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:	Operator
Owner/Operator Name:	SHELL OIL PRODUCTS US
Legal Status:	Private
Date Became Current:	1998-08-01 00:00:00.
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 LLC
Legal Status:	Private
Date Became Current:	1998-08-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 2648
Owner/Operator City,State,Zip:	HOUSTON, TX 77252
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
Owner/Operator Indicator:	Owner
Owner/Operator Name:	EQUILON ENTERPRISES LLC
Legal Status:	Private
Date Became Current:	1998-08-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 2648
Owner/Operator City,State,Zip:	HOUSTON, TX 77252
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator

TEXACO SERVICE STATION (Continued) **1004676854**

Owner/Operator Name: SHELL OIL PRODUCTS US
Legal Status: Private
Date Became Current: 1998-08-01 00:00:00.
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

Historic Generators:

Receive Date: 2018-12-17 00:00:00.0
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: No
Electronic Manifest Broker: No

Receive Date: 2004-02-26 00:00:00.0
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: 2001-01-19 00:00:00.0
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: 2004-02-26 00:00:00.0
Handler Name: TEXACO SERVICE STATION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No

TEXACO SERVICE STATION (Continued) **1004676854**

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 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

FINDS:
Registry ID: 110065466784

Click Here:

Environmental Interest/Information System:
STATE MASTER
Registry ID: 110012211775

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1004676854
Registry ID: 110012211775
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110012211775
Name: TEXACO SERVICE STATION
Address: 6000 CERRITOS AVENUE
City,State,Zip: CYPRESS, CA 90630

T77
NE
1/8-1/4
0.203 mi.
1070 ft.

TEXACO STATION #61-106-0029
6000 CERRITOS AVE
CYPRESS, CA 90630

Site 6 of 14 in cluster T

SWEEPS UST **U003877193**
N/A

Relative:
Higher

Actual:
42 ft.

SWEEPS UST:

Name:	TEXACO STATION #61-106-0029
Address:	6000 CERRITOS AVE
City:	CYPRESS
Status:	Not reported
Comp Number:	2045
Number:	Not reported
Board Of Equalization:	44-000217
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002045-000001
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	5

Name:	TEXACO STATION #61-106-0029
Address:	6000 CERRITOS AVE
City:	CYPRESS
Status:	Not reported
Comp Number:	2045
Number:	Not reported
Board Of Equalization:	44-000217
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002045-000002
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Name:	TEXACO STATION #61-106-0029
Address:	6000 CERRITOS AVE
City:	CYPRESS
Status:	Not reported
Comp Number:	2045
Number:	Not reported
Board Of Equalization:	44-000217
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002045-000003

TEXACO STATION #61-106-0029 (Continued) **U003877193**

Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Name:	TEXACO STATION #61-106-0029
Address:	6000 CERRITOS AVE
City:	CYPRESS
Status:	Not reported
Comp Number:	2045
Number:	Not reported
Board Of Equalization:	44-000217
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002045-000004
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Name:	TEXACO STATION #61-106-0029
Address:	6000 CERRITOS AVE
City:	CYPRESS
Status:	Not reported
Comp Number:	2045
Number:	Not reported
Board Of Equalization:	44-000217
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002045-000005
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Name:	TEXACO STATION #61-106-0029
Address:	6000 CERRITOS AVE
City:	CYPRESS
Status:	Active
Comp Number:	2045
Number:	9
Board Of Equalization:	44-000217
Referral Date:	09-30-92
Action Date:	09-15-92

TEXACO STATION #61-106-0029 (Continued) **U003877193**

Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002045-000006
Tank Status:	A
Capacity:	9741
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	4

Name:	TEXACO STATION #61-106-0029
Address:	6000 CERRITOS AVE
City:	CYPRESS
Status:	Active
Comp Number:	2045
Number:	9
Board Of Equalization:	44-000217
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002045-000007
Tank Status:	A
Capacity:	9741
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	Not reported

Name:	TEXACO STATION #61-106-0029
Address:	6000 CERRITOS AVE
City:	CYPRESS
Status:	Active
Comp Number:	2045
Number:	9
Board Of Equalization:	44-000217
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002045-000008
Tank Status:	A
Capacity:	9741
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	Not reported

Name:	TEXACO STATION #61-106-0029
Address:	6000 CERRITOS AVE
City:	CYPRESS
Status:	Active
Comp Number:	2045
Number:	9

TEXACO STATION #61-106-0029 (Continued) **U003877193**

Board Of Equalization:	44-000217
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-002045-000009
Tank Status:	A
Capacity:	9741
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	Not reported

T78 **TEXACO** **LUST** **U001564332**
NE **6000 CERRITOS** **HIST UST** **N/A**
1/8-1/4 **CYPRESS, CA 90630** **Cortese**
0.203 mi.
1070 ft. **Site 7 of 14 in cluster T**

Relative: **Higher**
Actual: **42 ft.**

LUST REG 8:

Name:	TEXACO
Address:	6000 CERRITOS
City:	CYPRESS
Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083000718T
Local Case Num:	87UT200
Case Type:	Other ground water affected
Substance:	12035,800661
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Close Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605900568
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	9/25/1987
Enforcement Date:	Not reported
Close Date:	9/28/1992
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported

TEXACO (Continued) **U001564332**

Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.8099646
Longitude:	-118.0273037
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:	AR
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

HIST UST:

Name:	TEXACO
Address:	6000 CERRITOS & VALLEY VIEW
City,State,Zip:	CYPRESS, CA 90603
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000016042
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	NASR I. SIMAAN
Telephone:	7148219060
Owner Name:	TEXACO U.S.A.
Owner Address:	3350 WILSHIRE BLVD.
Owner City,St,Zip:	LOS ANGELES, CA 90010
Total Tanks:	0005
Tank Num:	001
Container Num:	1
Year Installed:	1965
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	2
Year Installed:	1965
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10

TEXACO (Continued) **U001564332**

Tank Num:	003
Container Num:	3
Year Installed:	1965
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10

Tank Num:	004
Container Num:	4
Year Installed:	1965
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10

Tank Num:	005
Container Num:	5
Year Installed:	1965
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10

CORTESE:

Name:	TEXACO
Address:	6000 CERRITOS
City,State,Zip:	CYPRESS, CA 90630
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0605948555
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

Name:	TEXACO
Address:	6000 CERRITOS
City,State,Zip:	CYPRESS, CA 90630
Region:	CORTESE

TEXACO (Continued) **U001564332**

Envirostor Id:	Not reported
Global ID:	T0605900568
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

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79 **ADCRAFT SIGNS INC** **RCRA-SQG** **1000596469**
NNW **10533 PROGRESS WY UNIT E** **FINDS** **CAD983604414**
1/8-1/4 **CYPRESS, CA 90630** **ECHO**
0.207 mi.
1095 ft.

Relative: **Lower**

Actual: **37 ft.**

RCRA-SQG:

Date Form Received by Agency:		1991-09-04 00:00:00.0
Handler Name:	ADCRAFT SIGNS INC	
Handler Address:		10533 PROGRESS WY UNIT E
Handler City,State,Zip:		CYPRESS, CA 90630
EPA ID:		CAD983604414
Contact Name:		JON HARL
Contact Address:		10533 PROGRESS WY UNIT E
Contact City,State,Zip:		CYPRESS, CA 90630
Contact Telephone:		714-220-0504
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		PROGRESS WY UNIT E
Mailing City,State,Zip:		CYPRESS, CA 90630
Owner Name:		JON MORRISON HARL
Owner Type:		Private
Operator Name:		Not reported
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No

ADCRAFT SIGNS INC (Continued) **1000596469**

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2000-09-15 17:30:36.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JON MORRISON HARL

ADCRAFT SIGNS INC (Continued) **1000596469**

Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	10533 PROGRESS WY UNIT E
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-220-0504
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1991-09-04 00:00:00.0
Handler Name: ADCRAFT SIGNS INC	
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 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: 110002859782

Click Here:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000596469
Registry ID:	110002859782
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002859782
Name:	ADCRAFT SIGNS INC
Address:	10533 PROGRESS WY UNIT E

ADCRAFT SIGNS INC (Continued) **1000596469**

City,State,Zip: CYPRESS, CA 90630

U80 **DMG/MORISEIKI USA** **RCRA NonGen / NLR** **1024827123**
South **5740 WARLAND DR** **CAL000356106**
1/8-1/4 **CYPRESS, CA 90630**
0.218 mi.
1149 ft. **Site 1 of 2 in cluster U**

Relative: RCRA NonGen / NLR:
Lower

Date Form Received by Agency:		2010-08-25 00:00:00.0
Handler Name:	DMG/MORISEIKI USA	
Handler Address:		5740 WARLAND DR
Handler City,State,Zip:		CYPRESS, CA 90630-5030
EPA ID:		CAL000356106
Contact Name:		KURT NISHIMURA
Contact Address:		5740 WARLAND DR
Contact City,State,Zip:		CYPRESS, CA 90630
Contact Telephone:		562-430-3800
Contact Fax:		562-430-5570
Contact Email:		EMURILLO@DMGMORI-USA.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:		5740 WARLAND DR
Mailing City,State,Zip:		CYPRESS, CA 90630-5030
Owner Name:		DMG/MORI SEIKI USA
Owner Type:		Other
Operator Name:		KURT NISHIMURA
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

Actual:
36 ft.

DMG/MORISEIKI USA (Continued) **1024827123**

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:	2018-09-05 20:33:30.0
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:	DMG/MORI SEIKI USA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2400 HUNTINGTON BLVD
Owner/Operator City,State,Zip:	HOFFMAN ESTATES, IL 60192-1564
Owner/Operator Telephone:	847-746-7400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	KURT NISHIMURA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5740 WARLAND DR
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	562-430-3800
Owner/Operator Telephone Ext:	Not reported

DMG/MORISEIKI USA (Continued) **1024827123**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2010-08-25 00:00:00.0
Handler Name: DMG/MORISEIKI USA
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

U81 **DMG/MORISEIKI USA** **CERS HAZ WASTE** **S113468301**
South **5740 WARLAND DR** **HAZNET** **N/A**
1/8-1/4 **CYPRESS, CA 90630** **CERS**
0.218 mi. **HWTS**
1149 ft. **Site 2 of 2 in cluster U**

Relative:
Lower

Actual:
36 ft.

CERS HAZ WASTE:
Name: DMG/MORISEIKI USA
Address: 5740 WARLAND DR
City,State,Zip: CYPRESS, CA 90630
Site ID: 426786
CERS ID: 10568515
CERS Description: Hazardous Waste Generator

HAZNET:
Name: DMG/MORISEIKI USA
Address: 5740 WARLAND DR
Address 2: Not reported
City,State,Zip: CYPRESS, CA 906305030
Contact: KURT NISHIMURA
Telephone: 5624303800
Mailing Name: Not reported
Mailing Address: 5740 WARLAND DR

Year: 2018
Gepaid: CAL000356106
TSD EPA ID: CAT080013352

DMG/MORISEIKI USA (Continued) **S113468301**

CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	3.78000
Year:	2018
Gepaid:	CAL000356106
TSD EPA ID:	CAT000613976
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.23100
Year:	2017
Gepaid:	CAL000356106
TSD EPA ID:	CAT080013352
CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	2.562
Year:	2017
Gepaid:	CAL000356106
TSD EPA ID:	CAT000613976
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.189
Year:	2017
Gepaid:	CAL000356106
TSD EPA ID:	CAT000613976
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.063
Year:	2016
Gepaid:	CAL000356106
TSD EPA ID:	CAT080013352
CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	4.41
Year:	2016
Gepaid:	CAL000356106
TSD EPA ID:	CAT000613976
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.1386

DMG/MORISEIKI USA (Continued) **S113468301**

Year:	2015
Gepaid:	CAL000356106
TSD EPA ID:	CAT000613976
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.3234
Year:	2015
Gepaid:	CAL000356106
TSD EPA ID:	CAT080013352
CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	6.09
Year:	2014
Gepaid:	CAL000356106
TSD EPA ID:	CAT000613976
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.2184

Click this hyperlink while viewing on your computer to access
10 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2016
Gen EPA ID:	CAL000356106
Shipment Date:	20151223
Creation Date:	10/10/2016 18:30:40
Receipt Date:	20151223
Manifest ID:	005180240SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

DMG/MORISEIKI USA (Continued) **S113468301**

Additional Code 5:	Not reported
Shipment Date:	20151005
Creation Date:	2/26/2016 22:15:47
Receipt Date:	20151005
Manifest ID:	005075052SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.084
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:	20150717
Creation Date:	2/4/2016 22:15:46
Receipt Date:	20150717
Manifest ID:	004948826SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150422
Creation Date:	9/22/2015 22:15:43
Receipt Date:	20150422
Manifest ID:	004913980SKS
Trans EPA ID:	TXR000081205

DMG/MORISEIKI USA (Continued) **S113468301**

Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0924
Waste Quantity:	22
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:	20150413
Creation Date:	7/8/2015 22:15:08
Receipt Date:	20150413
Manifest ID:	014064853JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.47
Waste Quantity:	350
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:	20150327
Creation Date:	8/21/2015 22:15:28
Receipt Date:	20150327
Manifest ID:	014063893JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

DMG/MORISEIKI USA (Continued) **S113468301**

Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	3.36
Waste Quantity:	800
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:	20150206
Creation Date:	8/20/2015 22:15:27
Receipt Date:	20150206
Manifest ID:	004735484SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.084
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:	20150126
Creation Date:	4/16/2015 22:14:42
Receipt Date:	20150126
Manifest ID:	013814753JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.26
Waste Quantity:	300
Quantity Unit:	G

DMG/MORISEIKI USA (Continued) **S113468301**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2014
Gen EPA ID:	CAL000356106
Shipment Date:	20141117
Creation Date:	3/31/2015 22:15:12
Receipt Date:	20141117
Manifest ID:	004503249SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.084
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:	20140731
Creation Date:	12/13/2014 22:15:07
Receipt Date:	20140731
Manifest ID:	004316129SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

DMG/MORISEIKI USA (Continued) **S113468301**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140730
Creation Date:	11/2/2014 22:15:11
Receipt Date:	20140806
Manifest ID:	013090311JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.126
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140730
Creation Date:	11/2/2014 22:15:11
Receipt Date:	20140806
Manifest ID:	013090311JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.21
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140725
Creation Date:	7/20/2015 13:31:09
Receipt Date:	20140725
Manifest ID:	013152352JJK

DMG/MORISEIKI USA (Continued) **S113468301**

Trans EPA ID: CAD028277036
Trans Name: ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080013352
Trans Name: DEMENNO / KERDOON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 135 - Unspecified aqueous solution
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 4.2
Waste Quantity: 1000
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: 20140402
Creation Date: 8/14/2014 22:15:24
Receipt Date: 20140402
Manifest ID: 004244619SKS
Trans EPA ID: TXR000081205
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT000613976
Trans Name: SAFETY-KLEEN SYSTEMS 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: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.0504
Waste Quantity: 12
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: 2011
Gen EPA ID: CAL000356106

Shipment Date: 20111019
Creation Date: 8/15/2012 15:35:45
Receipt Date: 20111019
Manifest ID: 002707839SKS
Trans EPA ID: TXR000050930
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: Not reported

DMG/MORISEIKI USA (Continued) **S113468301**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0714
Waste Quantity:	17
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:	20110628
Creation Date:	8/15/2012 15:36:30
Receipt Date:	20110701
Manifest ID:	004252019FLE
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.042
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110309
Creation Date:	8/15/2012 15:36:05
Receipt Date:	20110311
Manifest ID:	003581118FLE
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported

DMG/MORISEIKI USA (Continued) **S113468301**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2017
Gen EPA ID:	CAL000356106
Shipment Date:	20171020
Creation Date:	7/10/2018 18:30:24
Receipt Date:	20171020
Manifest ID:	006361638SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170919
Creation Date:	5/30/2018 18:33:46
Receipt Date:	20170919
Manifest ID:	017729084JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	2.562

DMG/MORISEIKI USA (Continued) **S113468301**

Waste Quantity:	610
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:	20170731
Creation Date:	7/24/2018 18:30:51
Receipt Date:	20170731
Manifest ID:	006052258SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170508
Creation Date:	5/12/2018 18:31:53
Receipt Date:	20170508
Manifest ID:	005803086SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

DMG/MORISEIKI USA (Continued) **S113468301**

Shipment Date:	20170213
Creation Date:	5/10/2018 18:30:43
Receipt Date:	20170213
Manifest ID:	005776814SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2010
Gen EPA ID:	CAL000356106
Shipment Date:	20101115
Creation Date:	8/15/2012 15:36:59
Receipt Date:	20101116
Manifest ID:	003662313FLE
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.042
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101015
Creation Date:	1/3/2011 18:30:18
Receipt Date:	20101015

DMG/MORISEIKI USA (Continued) **S113468301**

Manifest ID:	008036239JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	3.753
Waste Quantity:	900
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAL000356106
Shipment Date:	20131212
Creation Date:	5/14/2014 22:14:54
Receipt Date:	20131212
Manifest ID:	004062145SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.1008
Waste Quantity:	24
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:	20130822
Creation Date:	1/6/2014 22:15:06
Receipt Date:	20130822
Manifest ID:	003906175SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported

DMG/MORISEIKI USA (Continued) **S113468301**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0714
Waste Quantity:	17
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:	20130226
Creation Date:	4/29/2013 22:15:06
Receipt Date:	20130226
Manifest ID:	010881991JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	4.2
Waste Quantity:	1000
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:	20130111
Creation Date:	5/8/2013 22:15:17
Receipt Date:	20130111
Manifest ID:	003680234SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported

DMG/MORISEIKI USA (Continued) **S113468301**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0756
Waste Quantity:	18
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAL000356106
Shipment Date:	20151223
Creation Date:	10/10/2016 18:30:40
Receipt Date:	20151223
Manifest ID:	005180240SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151005
Creation Date:	2/26/2016 22:15:47
Receipt Date:	20151005
Manifest ID:	005075052SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.084

DMG/MORISEIKI USA (Continued) **S113468301**

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:	20150717
Creation Date:	2/4/2016 22:15:46
Receipt Date:	20150717
Manifest ID:	004948826SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150422
Creation Date:	9/22/2015 22:15:43
Receipt Date:	20150422
Manifest ID:	004913980SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0924
Waste Quantity:	22
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

DMG/MORISEIKI USA (Continued) **S113468301**

Shipment Date:	20150413
Creation Date:	7/8/2015 22:15:08
Receipt Date:	20150413
Manifest ID:	014064853JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.47
Waste Quantity:	350
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:	20150327
Creation Date:	8/21/2015 22:15:28
Receipt Date:	20150327
Manifest ID:	014063893JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	3.36
Waste Quantity:	800
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:	20150206
Creation Date:	8/20/2015 22:15:27
Receipt Date:	20150206
Manifest ID:	004735484SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported

DMG/MORISEIKI USA (Continued) **S113468301**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.084
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:	20150126
Creation Date:	4/16/2015 22:14:42
Receipt Date:	20150126
Manifest ID:	013814753JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.26
Waste Quantity:	300
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2012
Gen EPA ID:	CAL000356106
Shipment Date:	20120627
Creation Date:	10/15/2012 22:15:12
Receipt Date:	20120627
Manifest ID:	009573602JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON

DMG/MORISEIKI USA (Continued) **S113468301**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	2.73
Waste Quantity:	650
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:	20120209
Creation Date:	8/15/2012 15:34:49
Receipt Date:	20120209
Manifest ID:	003037165SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS 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:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.084
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

CERS:

Name:	DMG/MORISEIKI USA
Address:	5740 WARLAND DR
City,State,Zip:	CYPRESS, CA 90630
Site ID:	426786
CERS ID:	10568515
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	426786
Site Name:	DMG/MORISEIKI USA
Violation Date:	09-20-2017
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.

DMG/MORISEIKI USA (Continued) **S113468301**

Violation Notes: The facility has not submitted the Hazardous Materials Inventory Chemical Description page for the Machine Coolant, Waste Machine Coolant and the Propane to the CUPA. Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS) within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 426786
Site Name: DMG/MORISEIKI USA
Violation Date: 08-20-2014
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 10/19/2014. The HMBEP must be prepared and submitted within 30 days from receipt of this report. Once your username and password are received, please go to www.esubmit.ocgov.com and log in. Complete and submit all necessary information within 30 days from receipt of this report.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 426786
Site Name: DMG/MORISEIKI USA
Violation Date: 09-20-2017
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 business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Not reported
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 03-30-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The HMBEP has been declined due to inadequate chemical description, BEP, and Facility Map.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-20-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. Met with environmental contact Kurt Nishimura, who gave consent to enter and

DMG/MORISEIKI USA (Continued) **S113468301**

inspect the facility. The facility warehouse is undergoing remodeling and all hazardous waste has been removed (7/25/2014). NO Hazardous waste was observed on this date. Hazardous waste manifests were available for review. Perimeter of the facility and the municipal dumpster was inspected. Did not observe any indication of a hazardous waste release or illegal dumping along the perimeter of the facility. The Hazardous Waste Emergency Response information was posted in the facility.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-20-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Met with Environmental contact Kurt Nishimura, who provided consent to enter and inspect the facility. A walk through of the facility has verified (2) different chemicals above threshold quantities. - Used cooling oil - New cooling oil To date, the facility has not prepared or submitted a hazardous materials business emergency plan via the Orange County E-Submit portal (See violations I292 above). A username and password were requested during this inspection. Facility has 30-days to submit a hazardous materials business emergency plan on the Orange County e-submit portal.

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-20-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. Consent to inspect and take photos at the facility was provided by the Mike Avey. Municipal dumpster area does not contain any hazardous waste. The perimeter of the facility was also inspected; no signs of releases were noted. Emergency Response Informational Sticker was complete. Hazardous waste containers were properly labeled and covered. Reviewed manifests, bills of lading and consolidated manifests for all hazardous waste streams. For further information about Hazardous Waste management, please refer to the Orange County CUPA website at www.occupainfo.com and open the PDF G Hazardous Waste the BasicsG . No hazardous waste violations noted today.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-20-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Consent to inspect and take photos was provided by Mike Avey. A walk through of the facility was conducted. The following Hazardous Substances were observed being stored at above the reporting

DMG/MORISEIKI USA (Continued) **S113468301**

threshold: HM - Machine Coolant Concentrate. - Propane HW - Waste Machine Coolant This facility is responsible for identifying all hazardous materials and hazardous wastes, which are above the following disclosure thresholds: Solids > 500 pounds. Liquids > or = 55 gallons Gas > or = 200 cubic feet The HMBEP documents can be electronically submitted by going to the CERS website at http://cers.calepa.ca.gov/ and create an account. The following HMBEP documents that must be electronically submitted: - Business Activities form - Owner/Operator Identification form - Hazardous Material Chemical Inventory forms - Facility Site Map - Business Emergency Plan The Hazardous [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-30-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBEP Denied.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-16-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and declined HMBEP submittal. Facility inventory and site map are missing. In addition, the Emergency Response/Contingency Plan that was submitted is blank. Please add your chemical inventory, site map and a completed contingency plan and resubmit within 30 days.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 426786
Facility Name: DMG/MORISEIKI USA
Env Int Type Code: HMBP
Program ID: 10568515
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.801680
Longitude: -118.033770

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 5740 Warland Drive
Affiliation City: Cypress
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90630
Affiliation Phone: Not reported

DMG/MORISEIKI USA (Continued) **S113468301**

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406

Affiliation Type Desc:	Document Preparer
Entity Name:	Ericca Murillo
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Ericca Murillo
Entity Title:	Not reported
Affiliation Address:	5740 Warland Drive
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Ericca Murillo
Entity Title:	Office Administrator
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	DMG/MORISEIKI USA
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	DMG MORI USA, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

DMG/MORISEIKI USA (Continued) **S113468301**

Affiliation Zip: Not reported
Affiliation Phone: (562) 430-3800

Affiliation Type Desc: Legal Owner
Entity Name: DMG MORI USA, Inc.
Entity Title: Not reported
Affiliation Address: 5740 Warland Drive
Affiliation City: Cypress
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90630
Affiliation Phone: (562) 430-3800

HWTS:
Name: DMG/MORISEIKI USA
Address: 5740 WARLAND DR
Address 2: Not reported
City,State,Zip: CYPRESS, CA 906305030
EPA ID: CAL000356106
Inactive Date: Not reported
Create Date: 08/25/2010
Last Act Date: 10/21/2020
Mailing Name: Not reported
Mailing Address: 5740 WARLAND DR
Mailing Address 2: Not reported
Mailing City,State,Zip: CYPRESS, CA 906305030
Owner Name: DMG/MORI SEIKI USA
Owner Address: 2400 HUNTINGTON BLVD
Owner Address 2: Not reported
Owner City,State,Zip: HOFFMAN ESTATES, IL 601921564
Contact Name: KURT NISHIMURA
Contact Address: 5740 WARLAND DR
Contact Address 2: Not reported
City,State,Zip: CYPRESS, CA 90630

NAICS:
EPA ID: CAL000356106
Create Date: 2010-08-25 09:42:42.747
NAICS Code: 336399
NAICS Description: All Other Motor Vehicle Parts Manufacturing
Issued EPA ID Date: 2010-08-25 09:42:42.73000
Inactive Date: Not reported
Facility Name: DMG/MORISEIKI USA
Facility Address: 5740 WARLAND DR
Facility Address 2: Not reported
Facility City: CYPRESS
Facility County: Not reported
Facility State: CA
Facility Zip: 906305030

V82 **COMTECH SPACE & COMPONENT TECHNOLOGY DBA TELECOMMU** **RCRA NonGen / NLR** **1024868843**
East **6181 CHIP AVE** **CAL000437449**
1/8-1/4 **CYPRESS, CA 90630**
0.232 mi.
1227 ft. **Site 1 of 2 in cluster V**

Relative:
Higher

Actual:
42 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2018-07-13 00:00:00.0
Handler Name:	COMTECH SPACE & COMPONENT TECHNOLOGY DBA TELECOMMUNICATIONS SYSTEMS IN
Handler Address:	6181 CHIP AVE
Handler City,State,Zip:	CYPRESS, CA 90630
EPA ID:	CAL000437449
Contact Name:	KEITH WATANABE
Contact Address:	6181 CHIP AVE
Contact City,State,Zip:	CYPRESS, CA 90630
Contact Telephone:	310-214-5500
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	6181 CHIP AVE
Mailing City,State,Zip:	CYPRESS, CA 90630
Owner Name:	TELECOMMUNICATIONS SYSTEMS INC
Owner Type:	Other
Operator Name:	KEITH WATANABE
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

COMTECH SPACE & COMPONENT TECHNOLOGY DBA TELECOMMUNICATIONS (Continued) **1024868843**

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:	2018-09-07 19:38:34.0
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:	KEITH WATANABE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6181 CHIP AVE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	310-214-5500
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	TELECOMMUNICATIONS SYSTEMS INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	68 S SERVICE RD STE 230
Owner/Operator City,State,Zip:	MELVILLE, NY 11747
Owner/Operator Telephone:	310-214-5500
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

COMTECH SPACE & COMPONENT TECHNOLOGY DBA TELECOMMUNICATIONS (Continued) **1024868843**

Historic Generators:
- Receive Date: 2018-07-13 00:00:00.0
- Handler Name: COMTECH SPACE & COMPONENT TECHNOLOGY DBA TELECOMMUNICATIONS SYSTEMS IN
- 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

V83 **TELECOMMUNICATION SYSTEMS INC DBA COMTECH SPACE &** **RCRA NonGen / NLR** **1025876294**
East **6181 CHIP AVE** **CAL000449430**
1/8-1/4 **CYPRESS, CA 90630**
0.232 mi.
1227 ft. **Site 2 of 2 in cluster V**

Relative: **Higher**

Actual: **42 ft.**

RCRA NonGen / NLR:
- Date Form Received by Agency: 2019-09-26 00:00:00.0
- Handler Name: TELECOMMUNICATION SYSTEMS INC DBA COMTECH SPACE & COMPONENT TECHNOLOGY
- Handler Address: 6181 CHIP AVE
- Handler City,State,Zip: CYPRESS, CA 90630
- EPA ID: CAL000449430
- Contact Name: KEITH WATANABE
- Contact Address: 6181 CHIP AVE
- Contact City,State,Zip: CYPRESS, CA 90630
- Contact Telephone: 310-214-5525
- Contact Fax: Not reported
- Contact Email: KEITH.WATANABE@COMTECHTEL.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: 6181 CHIP AVE
- Mailing City,State,Zip: CYPRESS, CA 90630
- Owner Name: TELECOMMUNICATION SYSTEMS INC

TELECOMMUNICATION SYSTEMS INC DBA COMTECH SPACE & COMPONENT (Continued) **1025876294**

Owner Type:	Other
Operator Name:	KEITH WATANABE
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:	2019-09-27 16:24:03.0
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

TELECOMMUNICATION SYSTEMS INC DBA COMTECH SPACE & COMPONENT (Continued) **1025876294**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: TELECOMMUNICATION SYSTEMS INC
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 68 SERVICE RD #230
Owner/Operator City,State,Zip: MELVILLE, NY 11747
Owner/Operator Telephone: 631-962-7000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: KEITH WATANABE
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 6181 CHIP AVE
Owner/Operator City,State,Zip: CYPRESS, CA 90630
Owner/Operator Telephone: 310-214-5525
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2019-09-26 00:00:00.0
Handler Name: TELECOMMUNICATION SYSTEMS INC DBA COMTECH SPACE & COMPONENT TECHNOLOGY
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: 517911
NAICS Description: TELECOMMUNICATIONS RESELLERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

T84 **PURRFECT AUTO SERVICE** **RCRA-SQG** **1004677224**
NE **6026 CERRITOS AVE** **FINDS** **CAR000094672**
1/8-1/4 **CYPRESS, CA 90630** **ECHO**
0.236 mi. **HAZNET**
1245 ft. **Site 8 of 14 in cluster T** **HWTS**

Relative: **Higher**
Actual: **43 ft.**

RCRA-SQG:

Date Form Received by Agency:		2001-04-10 00:00:00.0
Handler Name:	PURRFECT AUTO SERVICE	
Handler Address:		6026 CERRITOS AVE
Handler City,State,Zip:		CYPRESS, CA 90630
EPA ID:		CAR000094672
Contact Name:		ALBERTO EVANGELIO
Contact Address:		6026 CERRITOS AVE
Contact City,State,Zip:		CYPRESS, CA 90630
Contact Telephone:		714-761-7197
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		6026 CERRITOS AVE
Mailing City,State,Zip:		CYPRESS, CA 90630
Owner Name:		PURRFECT AUTO SERVICE
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

PURRFECT AUTO SERVICE (Continued) **1004677224**

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:	2002-10-07 16:36:26.0
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:	D039
Waste Description:	TETRACHLOROETHYLENE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PURRFECT AUTO SERVICE
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6026 CERRITOS AVE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-761-7197
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2001-04-10 00:00:00.0
Handler Name: PURRFECT AUTO SERVICE	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No

PURRFECT AUTO SERVICE (Continued) **1004677224**

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: 110012228534

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1004677224
Registry ID: 110012228534
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110012228534
Name: PURRFECT AUTO SERVICE
Address: 6026 CERRITOS AVE
City,State,Zip: CYPRESS, CA 90630

HAZNET:
Name: PURRFECT AUTO SERVICE
Address: 6026 CERRITOS AVE
Address 2: Not reported
City,State,Zip: CYPRESS, CA 90630
Contact: Alberto Evangelio
Telephone: 7147617197
Mailing Name: Not reported
Mailing Address: 6026 Cerritos Ave

Year: 2002
Gepaid: CAR000094672
TSD EPA ID: CAT000613893
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent

PURRFECT AUTO SERVICE (Continued) **1004677224**

Disposal Method:	H01 - Transfer Station
Tons:	0.084
Year:	2001
Gepaid:	CAR000094672
TSD EPA ID:	CAT000613893
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H01 - Transfer Station
Tons:	0.2688

Additional Info:

Year:	2002
Gen EPA ID:	CAR000094672
Shipment Date:	20020307
Creation Date:	7/17/2002 18:31:10
Receipt Date:	20020312
Manifest ID:	21498652
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.084
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:	2001
Gen EPA ID:	CAR000094672
Shipment Date:	20011213
Creation Date:	2/13/2002 0:00:00
Receipt Date:	20011218
Manifest ID:	21321415
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613893
TSDF Alt Name:	Not reported

PURRFECT AUTO SERVICE (Continued) **1004677224**

Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1008
Waste Quantity:	24
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:	20011019
Creation Date:	1/16/2002 0:00:00
Receipt Date:	20011024
Manifest ID:	21377275
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.168
Waste Quantity:	40
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	PURRFECT AUTO SERVICE
Address:	6026 CERRITOS AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 90630
EPA ID:	CAR000094672
Inactive Date:	06/30/2003
Create Date:	03/04/2003
Last Act Date:	04/19/2004
Mailing Name:	Not reported
Mailing Address:	6026 Cerritos Ave
Mailing Address 2:	Not reported
Mailing City,State,Zip:	Cypress, CA 90630
Owner Name:	Purrfect Auto Service
Owner Address:	6026 Cerritos Ave
Owner Address 2:	Not reported
Owner City,State,Zip:	Cypress, CA 90630
Contact Name:	Alberto Evangelio
Contact Address:	6026 Cerritos Ave
Contact Address 2:	Not reported
City,State,Zip:	Cypress, CA 90630

T85 **CWAC INC DBA CITYWIDE AUTO CARE** **RCRA NonGen / NLR** **1024869722**
NE **6026 CERRITOS AVE** **CAL000438341**
1/8-1/4 **CYPRESS, CA 90630**
0.236 mi.
1245 ft. **Site 9 of 14 in cluster T**

Relative:
Higher

Actual:
43 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2018-08-14 00:00:00.0
Handler Name:	CWAC INC DBA CITYWIDE AUTO CARE
Handler Address:	6026 CERRITOS AVE
Handler City,State,Zip:	CYPRESS, CA 90630
EPA ID:	CAL000438341
Contact Name:	ROBYNE HINDS
Contact Address:	6026 CERRITOS AVE
Contact City,State,Zip:	CYPRESS, CA 90630
Contact Telephone:	714-761-8330
Contact Fax:	714-761-8383
Contact Email:	CITYWIDEAUTOCARE@OUTLOOK.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:	6026 CERRITOS AVE
Mailing City,State,Zip:	CYPRESS, CA 90630
Owner Name:	ROBYNE HINDS
Owner Type:	Other
Operator Name:	ROBYNE HINDS
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

CWAC INC DBA CITYWIDE AUTO CARE (Continued) **1024869722**

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:	2018-09-07 19:38:49.0
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:	ROBYNE HINDS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6026 CERRITOS AVE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-761-8330
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ROBYNE HINDS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6026 CERRITOS AVE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-761-8330
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

CWAC INC DBA CITYWIDE AUTO CARE (Continued) **1024869722**

Historic Generators:
- Receive Date: 2018-08-14 00:00:00.0
- Handler Name: CWAC INC DBA CITYWIDE AUTO CARE
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 811111
- NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

T86 **PURRFECT AUTO SERVICE #13** **CERS HAZ WASTE** **S124869367**
NE **6026 CERRITOS AVE** **CERS** **N/A**
1/8-1/4 **CYPRESS, CA 90630** **HWTS**
0.236 mi.
1245 ft. **Site 10 of 14 in cluster T**

Relative: Higher

Actual: 43 ft.

CERS HAZ WASTE:
- Name: CITYWIDE AUTO CARE
- Address: 6026 CERRITOS AVE
- City,State,Zip: CYPRESS, CA 90630
- Site ID: 559416
- CERS ID: 10709143
- CERS Description: Hazardous Waste Generator

CERS:
- Name: CITYWIDE AUTO CARE
- Address: 6026 CERRITOS AVE
- City,State,Zip: CYPRESS, CA 90630
- Site ID: 559416
- CERS ID: 10709143
- CERS Description: Chemical Storage Facilities

Violations:
- Site ID: 559416
- Site Name: Citywide Auto Care
- Violation Date: 08-05-2014
- 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.

PURRFECT AUTO SERVICE #13 (Continued) **S124869367**

Violation Notes:	Returned to compliance on 10/04/2014. The HMBEP must be prepared and submitted within 30 days from receipt of this report. Please go to www.esubmit.ocgov.com and log in using the credentials that were provided to you. Complete and submit all necessary information within 30 days from receipt of this report in order to abate this violation.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	559416
Site Name:	Citywide Auto Care
Violation Date:	02-06-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 02/06/2017. The waste antifreeze drums and the waste oil tanks were missing the Hazardous waste labeling information. Mr. Dunaway completed the Hazardous waste labels during this inspection. Therefore violation I400 is abated today.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-05-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Met with facility mechanic Gary McMann, who provided consent to enter and inspect the facility. A walk through of the facility has verified (6) chemicals above threshold quantities. - Used Oil - max volume= 220 gallons - Used Antifreeze - max volume = 165 gallons - New antifreeze - max volume = 100 gallons - New motor oil 5W-30 - max volume = 250 gallons - New motor oil 15w40- max volume = 100 gallons - Automatic transmission fluid - max volume = 100 gallons To date, the facility has not prepared or submitted a hazardous materials business emergency plan via the Orange County E-Submit portal (See violations I292 above). A username and password were requested during this inspection. Once your credentials are received, visit www.esubmit.ocgov.com and log in to complete the HMBEP. Facility has 30-days to submit a hazardous materials business emergency plan [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-04-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS: on-site for a follow up inspection. Assisted in completing and submitting the HMBP on the CERS database. Verified the

PURRFECT AUTO SERVICE #13 (Continued) **S124869367**

map and the inventory.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-13-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: INSPECTOR COMMENTS: Reviewed and accepted the CERS disclosure.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-22-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine Hazardous Materials Business Plan (HMBP) inspection. Observed the following hazardous materials on site in reportable quantities (all sizes are approximate): - 200 gal total of new oil - 120 gal tank of waste oil - 55 gal of new antifreeze - 55 gal of waste antifreeze Per California Health & Safety Code Ch. 6.95, businesses that store and handle hazardous materials at or over reportable quantities (55 gal of a liquid, 500 lbs of a solid, 200 cubic ft of a compressed gas) must prepare and implement an HMBP. The HMBP must include the following elements: - Business Activities - Owner/Operator Information - Chemical Inventory - Site Map - Emergency Response Plan/Training Plan The HMBP must be submitted online through the California Environmental Reporting System (CERS) by March 1st of every year. The facility is responsible for identifying all hazardous materials, including hazardous wastes, which are at or above disclosure [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-22-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: One site to conduct hazardous waste inspection. Walked the interior and exterior areas of the facility. Observed hazardous waste storage area and containers. Contingency Plan and manifests were available for review.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-06-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Citywide Auto Care 6026 Cerritos Ave. Cypress CA, 90630 Owner: Benchmark Mechanical Services Inc. Vice President : William Dunaway (714-761-8330 email citywideautocare@live.com) On site to conduct a change of ownership inspection with regards to the Hazardous Materials

PURRFECT AUTO SERVICE #13 (Continued) **S124869367**

Business Emergency Program. Consent to inspect and take photos of the facility was provided by the Vice President William Dunaway. This facility is responsible and has identified all hazardous materials and hazardous wastes, which are above the disclosure thresholds. Reporting thresholds for hazardous substances stored at the facility are 500 pounds of solids or 55 gallons of liquid or 200 cubic feet of gas. The facility was observed with the following Hazardous Materials and Hazardous Wastes being stored at the site. Hazardous Materials - Propane (please add this to the CERS sumbittal) - Motor oil - Antifreeze Hazardous Wastes - Waste oil - Waste Antifreeze The HMBEP documents [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-06-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Inspection however the ownership has changed. The new owner is William Dunaway. A new facility form will be completed to reflect the change in ownership.

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-06-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Waste Inspection however the ownership has changed. The new owner is William Dunaway. A new facility form will be completed to reflect the change in ownership.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-06-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Citywide Auto Care. 6026 Cerritos Ave. Cypress, CA 90630 Owner is Benchmark Mechanical Services Vice President is William Dunaway. (714-761-8330; citywideautocare@live.com) On site to conduct a change of ownership for the hazardous waste generator program. Consent to enter, inspect and take photographs was given by William Dunaway. Hazardous wastes generated include: waste oil, waste antifreeze and drained used oil filters. Facility will be routinely inspected for the following hazardous waste management practices: -All hazardous waste containers must be properly labeled with the words "hazardous waste", waste name, owner information, hazardous property, physical state and accumulation date. -All hazardous waste containers must be closed at all times. -All hazardous waste must be properly disposed using a State registered hauler. -Facility has obtained an EPA ID #: CAL000415040 -Facility's EPA ID # must be used on all hazardous waste disposal [Truncated]

Eval Division: Orange County Environmental Health

PURRFECT AUTO SERVICE #13 (Continued) **S124869367**

Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-05-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. Met with lead mechanic Gary McMann, who gave consent to enter and inspect the facility. Hazardous waste observed on site include: - (2) 150-gallon tanks containing waste motor oil, (3) 55-gallon drums containing waste antifreeze, and (1) 55-gallon drum for used oil filters. All containers were labeled and properly closed. Hazardous waste manifests for all hazardous waste streams were available for review. Perimeter of the facility and the municipal dumpster was inspected. Did not observe any indication of a hazardous waste release or illegal dumping along the perimeter of the facility. The Hazardous Waste Emergency Response information was posted in the facility.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	William Dunaway
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	William Dunaway
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 761-8330
Affiliation Type Desc:	Environmental Contact
Entity Name:	William Dunaway
Entity Title:	Not reported
Affiliation Address:	6026 Cerritos Ave
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	6026 Cerritos Ave

PURRFECT AUTO SERVICE #13 (Continued) **S124869367**

Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Benchmark Mechanical Services
Entity Title:	Not reported
Affiliation Address:	6026 Cerritos Ave
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(714) 761-8330
Affiliation Type Desc:	Identification Signer
Entity Name:	William Dunaway
Entity Title:	VP
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	CWAC Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406

HWTS:

Name:	PURRFECT AUTO SERVICE #13
Address:	6026 CERRITOS AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906304828
EPA ID:	CAL000327343
Inactive Date:	06/30/2008
Create Date:	11/30/2007
Last Act Date:	04/23/2009
Mailing Name:	Not reported

PURRFECT AUTO SERVICE #13 (Continued) **S124869367**

Mailing Address:	6026 CERRITOS AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CYPRESS, CA 906304828
Owner Name:	AKA CAPITAL INC
Owner Address:	1912 NEW YORK DR
Owner Address 2:	Not reported
Owner City,State,Zip:	ALTADENA, CA 910013426
Contact Name:	ARMAN SOULTANIAN
Contact Address:	6026 CERRITOS AVE
Contact Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906304828

NAICS:

EPA ID:	CAL000327343
Create Date:	2007-11-30 15:53:49.727
NAICS Code:	99999
NAICS Description:	Not Otherwise Specified
Issued EPA ID Date:	2007-11-30 15:53:49.69700
Inactive Date:	2008-06-30 00:00:00
Facility Name:	PURRFECT AUTO SERVICE #13
Facility Address:	6026 CERRITOS AVE
Facility Address 2:	Not reported
Facility City:	CYPRESS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	906304828

T87 **AST** **A100340755**
NE **6026 CERRITOS AVE** **N/A**
1/8-1/4 **CYPRESS, CA**
0.236 mi.
1245 ft. **Site 11 of 14 in cluster T**

Relative:
Higher

Actual:
43 ft.

AST:

Name:	Not reported
Address:	6026 CERRITOS AVE
City/Zip:	CYPRESS,
Certified Unified Program Agencies:	Orange
Owner:	PURRFECT AUTO SERVICE #13
Total Gallons:	1,320
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported

(Continued) **A100340755**

Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

T88 **CYPRESS AUTO REPAIR & SMOG** **CERS HAZ WASTE** **S113121968**
NE **6036 CERRITOS AVE** **HAZNET** **N/A**
1/8-1/4 **CYPRESS, CA 90630** **CERS**
0.240 mi. **HWTS**
1266 ft. **Site 12 of 14 in cluster T**

Relative: **Higher**

Actual: **43 ft.**

CERS HAZ WASTE:

Name:	CYPRESS AUTO REPAIR & SMOG
Address:	6036 CERRITOS AVE
City,State,Zip:	CYPRESS, CA 90630
Site ID:	411088
CERS ID:	10548211
CERS Description:	Hazardous Waste Generator

HAZNET:

Name:	CYPRESS AUTO REPAIR & SMOG
Address:	6036 CERRITOS AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906304828
Contact:	DEAN STINSON/OWNER
Telephone:	7148265555
Mailing Name:	Not reported
Mailing Address:	6036 CERRITOS AVENUE
Year:	2019
Gepaid:	CAL000258862
TSD EPA ID:	ILR000130062
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.00000
Year:	2018
Gepaid:	CAL000258862
TSD EPA ID:	ILR000130062
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.00000
Year:	2018
Gepaid:	CAL000258862
TSD EPA ID:	ILR000130062
CA Waste Code:	133 - Aqueous solution with total organic residues 10 percent or more
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.08340
Year:	2016

CYPRESS AUTO REPAIR & SMOG (Continued) **S113121968**

Gepaid: CAL000258862
TSD EPA ID: CAD099452708
CA Waste Code: 133 - Aqueous solution with total organic residues 10 percent or more
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.2502

Year: 2015
Gepaid: CAL000258862
TSD EPA ID: CAD099452708
CA Waste Code: 133 - Aqueous solution with total organic residues 10 percent or more
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.417

Year: 2012
Gepaid: CAL000258862
TSD EPA ID: CAD981696420
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.315

Year: 2011
Gepaid: CAL000258862
TSD EPA ID: CAD981427669
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: 0.627

Year: 2011
Gepaid: CAL000258862
TSD EPA ID: CAD008302903
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.684

Year: 2010
Gepaid: CAL000258862
TSD EPA ID: UTD982589459
CA Waste Code: 133 - Aqueous solution with total organic residues 10 percent or more
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.2085

Additional Info:
Year: 2012
Gen EPA ID: CAL000258862

Shipment Date: 20120816
Creation Date: 10/10/2012 22:15:20
Receipt Date: 20120816
Manifest ID: 010444523JJK

CYPRESS AUTO REPAIR & SMOG (Continued) **S113121968**

Trans EPA ID:	AZR000003681
Trans Name:	THERMO FLUIDS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.084
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:	20120711
Creation Date:	10/15/2012 22:15:23
Receipt Date:	20120711
Manifest ID:	009736967JJK
Trans EPA ID:	AZR000003681
Trans Name:	THERMO FLUIDS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.231
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAL000258862

Shipment Date:	20151218
Creation Date:	6/8/2016 18:32:50
Receipt Date:	20151221
Manifest ID:	002994116GBF
Trans EPA ID:	ILR000130062
Trans Name:	HERITAGE-CRYSTAL CLEAN LLC
Trans 2 EPA ID:	Not reported

CYPRESS AUTO REPAIR & SMOG (Continued) **S113121968**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL COMPANY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
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:	20151001
Creation Date:	1/11/2016 22:16:05
Receipt Date:	20151002
Manifest ID:	002962615GBF
Trans EPA ID:	ILR000130062
Trans Name:	HERITAGE-CRYSTAL CLEAN LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL COMPANY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
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:	20150702
Creation Date:	10/5/2015 22:15:07
Receipt Date:	20150706
Manifest ID:	002870896GBF
Trans EPA ID:	ILR000130062
Trans Name:	HERITAGE-CRYSTAL CLEAN LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL COMPANY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
RCRA Code:	Not reported

CYPRESS AUTO REPAIR & SMOG (Continued) **S113121968**

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:	20150415
Creation Date:	8/21/2015 22:15:14
Receipt Date:	20150416
Manifest ID:	002775359GBF
Trans EPA ID:	ILR000130062
Trans Name:	HERITAGE-CRYSTAL CLEAN LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL COMPANY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
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:	20150130
Creation Date:	5/17/2015 22:15:06
Receipt Date:	20150202
Manifest ID:	002755662GBF
Trans EPA ID:	ILR000130062
Trans Name:	HERITAGE-CRYSTAL CLEAN LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL COMPANY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
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

CYPRESS AUTO REPAIR & SMOG (Continued) **S113121968**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2011
Gen EPA ID:	CAL000258862
Shipment Date:	20111229
Creation Date:	3/16/2012 20:30:17
Receipt Date:	20120105
Manifest ID:	008858452JJK
Trans EPA ID:	CAL000360685
Trans Name:	MOVEEL FUEL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981427669
Trans Name:	AMERICAN OIL COMPANY
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:	0.627
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111119
Creation Date:	1/20/2012 20:31:22
Receipt Date:	20111128
Manifest ID:	008858382JJK
Trans EPA ID:	CAL000360685
Trans Name:	MOVEEL FUEL
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:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.684
Waste Quantity:	180
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

CYPRESS AUTO REPAIR & SMOG (Continued) **S113121968**

Additional Info:

Year:	2016
Gen EPA ID:	CAL000258862
Shipment Date:	20151218
Creation Date:	6/8/2016 18:32:50
Receipt Date:	20151221
Manifest ID:	002994116GBF
Trans EPA ID:	ILR000130062
Trans Name:	HERITAGE-CRYSTAL CLEAN LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL COMPANY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
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:	20151001
Creation Date:	1/11/2016 22:16:05
Receipt Date:	20151002
Manifest ID:	002962615GBF
Trans EPA ID:	ILR000130062
Trans Name:	HERITAGE-CRYSTAL CLEAN LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL COMPANY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
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:	20150702
Creation Date:	10/5/2015 22:15:07
Receipt Date:	20150706

CYPRESS AUTO REPAIR & SMOG (Continued) **S113121968**

Manifest ID:	002870896GBF
Trans EPA ID:	ILR000130062
Trans Name:	HERITAGE-CRYSTAL CLEAN LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL COMPANY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
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:	20150415
Creation Date:	8/21/2015 22:15:14
Receipt Date:	20150416
Manifest ID:	002775359GBF
Trans EPA ID:	ILR000130062
Trans Name:	HERITAGE-CRYSTAL CLEAN LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL COMPANY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
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:	20150130
Creation Date:	5/17/2015 22:15:06
Receipt Date:	20150202
Manifest ID:	002755662GBF
Trans EPA ID:	ILR000130062
Trans Name:	HERITAGE-CRYSTAL CLEAN LLC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL COMPANY INC

CYPRESS AUTO REPAIR & SMOG (Continued) **S113121968**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
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:	2010
Gen EPA ID:	CAL000258862
Shipment Date:	20100518
Creation Date:	1/14/2011 18:30:08
Receipt Date:	20100519
Manifest ID:	002574451JJK
Trans EPA ID:	CAR000202077
Trans Name:	LEO'S ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	ORD980975692
Trans 2 Name:	ORRCO
TSDF EPA ID:	UTD982589459
Trans Name:	NUSET
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.2085
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	CYPRESS AUTO REPAIR & SMOG
Address:	6036 CERRITOS AVE
City,State,Zip:	CYPRESS, CA 90630
Site ID:	411088
CERS ID:	10548211
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	411088
Site Name:	CYPRESS AUTO REPAIR & SMOG
Violation Date:	08-05-2014
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22,

CYPRESS AUTO REPAIR & SMOG (Continued) **S113121968**

	Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 08/05/2014. Hazardous waste labels were observed illegible. In order to ensure compliance, please routinely inspect labels to ensure that the information required on the label is legible. This violation was corrected during this inspection.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	411088
Site Name:	CYPRESS AUTO REPAIR & SMOG
Violation Date:	08-05-2014
Citation:	22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description:	Failure to properly close hazardous waste containers when not in active use.
Violation Notes:	Returned to compliance on 08/05/2014. All containers storing liquid must be closed properly. All lids or bung caps must be sealed closed. This violation was corrected during this inspection.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	411088
Site Name:	CYPRESS AUTO REPAIR & SMOG
Violation Date:	05-02-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 05/02/2017. The waste oil tote was missing the hazardous waste labeling information on the HW label. The waste antifreeze container was missing the hazardous waste label. All hazardous waste storage containers must be labeled with the following: "Hazardous Waste", name and address of the generator, the physical and chemical characteristics of the hazardous waste, and the starting accumulation date. The Hazardous Waste Labeling information was completed on the waste oil tote and the a hazardous waste label was completed and posted on the waste antifreeze drum during this inspection, therefore this violation was corrected.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	01-04-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	E-Submit 2016 HMBEP Annual Certification declined 1/4/2016 The HMBEP

CYPRESS AUTO REPAIR & SMOG (Continued) **S113121968**

has been reviewed and declined. Please correct the following and resubmit: CHEMICAL DESCRIPTION // -- Verify the CAS # for ethylene glycol (107-21-1). -- Transmission oil: Please verify the CAS # with the Safety Data Sheets (SDS) for this chemical. -- General comments: Double check CAS numbers listed. Please verify the days on site; if a chemical is on site for the whole year, please update Days on Site to 365. FACILITY MAPS // -- Please upload the site map as a PDF file. ANY MAP MISSING THE FOLLOWING REQUIRED ITEMS, WILL BE REJECTED: Site Layout: Site Orientation (North, South, etc.) Loading Areas Internal Roads Adjacent Streets Storm Drains and Sewers Access and Exit Points Emergency Shutoffs Evacuation Staging Areas Hazardous Material Storage Areas Hazardous Material Handling Areas Emergency Response Equipment The labels and writing should be readable from [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-07-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBEP declined in E-Submit. The following notes were included in the review: "Provide a properly formatted CAS# with dashes for all materials. Indicate the appropriate federal hazard categories for all materials. You have different CAS#G s for waste and pure ethylene glycol. Please use 107-21-1 for both. Mark new ethylene glycol, lubricating oil, and engine oil as pure materials and remove the hazardous components. Provide a state waste code for waste oil. Provide more details about the training program, specifically addressing the training of new employees. Label the following on the site map: -Adjacent streets and internal roads -Loading docks -Evacuation staging area -Storm drains and sewers"

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: 2016 HMBEP Annual Certification Approval. The following documents were received and ACCEPTED on E-Submit: Business Activities Business Owner Information Chemical Inventory for 5 material(s) Facility Site Map Emergency Plan A copy of the report was sent to the facility.

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-22-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous materials inspection. Inspected facility with Dean (facility owner), who granted me consent to inspect the facility. Hazardous materials and waste observed on site that were in quantities greater than the disclosure threshold include: - Waste oil, waste Anti-freeze, new antifreeze, and new motor oil (10W-30).

CYPRESS AUTO REPAIR & SMOG (Continued) **S113121968**

The hazardous materials business emergency plan is in the process of being transferred electronically via the e-submit portal. Hazardous Emergency Response information exists in the Business Emergency Plan.

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-23-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received notification from business that owner information was incorrect. The correct owner is MJK Stinson Inc; owner for the past 6 years. Corrected ownership information in database.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-23-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received notification from business that owner information was incorrect. The correct owner is MJK Stinson Inc; owner for the past 6 years. Corrected ownership information in database.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-02-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Consent to inspect and take photos was provided by Brian O'Leary. A walk through of the facility was conducted. The following Hazardous Substances were observed being stored at above the reporting threshold: HM -Motor Oil -Antifreeze Coolant -Automatic Transmission Fluid -Oxygen gas HW -Waste Oil -Waste antifreeze This facility is responsible for identifying all hazardous materials and hazardous wastes, which are above the following disclosure thresholds: Solids > 500 pounds. Liquids > or = 55 gallons Gas > or = 200 cubic feet Site map is available for review. Employee training is available for review. Ensure the HMBEP is resubmitted by March 1st every year.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-02-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. Consent to inspect and take photos at the facility was provided by Brian O'Leary. The waste oil tote was missing the Hazardous Waste labeling information and the waste antifreeze container was missing the Hazardous Waste Label (see violation). The Hazardous Waste Labeling

CYPRESS AUTO REPAIR & SMOG (Continued) **S113121968**

information was completed on the waste oil tote and the a hazardous waste label was completed and posted on the waste antifreeze drum during this inspection and the violation corrected. Municipal dumpster area does not contain any hazardous waste. The perimeter of the facility was also inspected; no signs of releases were noted. Emergency Response Informational Sticker was complete. Reviewed manifests, bills of lading and consolidated manifests for all hazardous waste streams. For further information about Hazardous Waste management, please refer to the Orange County CUPA website at www.occupainfo.com and open the PDF G Hazardous Waste [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-04-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS Review 10548211 NOT Accepted The 2017 HMBEP was reviewed by Brian Erdman. Please update the following and resubmit with-in 30 days. The Waste Coolant G Remove the CAS number. Add the Fire Hazard Class. Change the number days stored on site to 365. Coolant G Add the Fire Hazard Class, also increase the Maximum Daily amount to 110 gallon (2 drums onsite). Engine Oil G Add the Fire Hazard Class, Transmission Fluid G Add the Fire Hazard Class, Change the Maximum Daily Amount to 120 gallons Waste Oil G Remove the CAS number, Add the Fire Hazard Class, Change the number of days stored on site to 365 The Site map overview is complete Thank you The site resubmitted today and the 2017 HMBEP submittal is accepted.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-03-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct an annual routine Hazardous Waste Inspection. Met with Brian who explained the process and escorted me through the site. Facility contains: waste oil, filters, coolant and parts washer. Hazardous waste containers are properly labeled and covered. Documents Available for review: 1. Hazardous waste Manifest/Receipts (keep a copy on site for three years). - Note: A copy of the federal manifest must be sent to DTSC. (Department of Toxic Substances Control, P.O. Box 400, Sacramento, CA 95812-0400). 2. Hazardous Waste Emergency Response information. Verified contact and owner information.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-05-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. Met with the mechanic on duty who gave consent to enter and inspect the facility. Hazardous waste observed on site include: - (1) 275 gallon tote

CYPRESS AUTO REPAIR & SMOG (Continued) **S113121968**

containing waste motor oil, (1) 55-gallon poly drum containing waste antifreeze, and (1) 55-gallon drum for used oil filters. The Oil and antifreeze containers were not properly closed and the hazardous waste labels were illegible (see violations I617 and I400 above). Hazardous waste manifests for all hazardous waste streams were available for review. Perimeter of the facility and the municipal dumpster was inspected. Did not observe any indication of a hazardous waste release or illegal dumping along the perimeter of the facility. The Hazardous Waste Emergency Response information was posted in the facility.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-10-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine Hazardous Materials Business Plan (HMBP) inspection. Observed the following hazardous materials on site in reportable quantities (all sizes are approximate): - 1 x 55 gal waste antifreeze - 250 gal tote of waste oil - 70 gal ATF - 330 gal total of lube oil Per California Health & Safety Code Ch. 6.95, businesses that store and handle hazardous materials at or over reportable quantities (55 gal of a liquid, 500 lbs of a solid, 200 cubic ft of a compressed gas) must prepare and implement an HMBP. The HMBP must include the following elements: - Business Activities - Owner/Operator Information - Chemical Inventory - Site Map - Emergency Response Plan/Training Plan The HMBP must be submitted online through the California Environmental Reporting System (CERS) by March 1st of every year. The facility is responsible for identifying all hazardous materials, including hazardous wastes, which are at or above disclosure thresholds. If there [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-10-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct hazardous waste inspection. Walked the interior and exterior areas of the facility. Inspected hazardous waste storage area and containers. Contingency Plan and hazardous waste manifests were available for review.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-29-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBEP Denied.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

CYPRESS AUTO REPAIR & SMOG (Continued) **S113121968**

Eval General Type:	Other/Unknown
Eval Date:	11-26-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following documents were received and ACCEPTED on the eSubmit Portal: Business Activities Form Business Owner/Operator Form Chemical Inventory for (# of chemicals) Facility Site Map
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Coordinates:

Site ID:	411088
Facility Name:	CYPRESS AUTO REPAIR & SMOG
Env Int Type Code:	HMBP
Program ID:	10548211
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.809840
Longitude:	-118.026150

Affiliation:

Affiliation Type Desc:	Operator
Entity Name:	dean stinson
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 826-5555

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406

Affiliation Type Desc:	Document Preparer
Entity Name:	Dean Stinson
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Brian O'Leary
Entity Title:	Not reported
Affiliation Address:	6036 Cerritos Ave

CYPRESS AUTO REPAIR & SMOG (Continued) **S113121968**

Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	6036 CERRITOS AVE
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Dean Stinson
Entity Title:	President
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	MJK STINSON INC
Entity Title:	Not reported
Affiliation Address:	6036 CERRITOS AVE
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(714) 826-5555
Affiliation Type Desc:	Parent Corporation
Entity Name:	CYPRESS AUTO REPAIR & SMOG
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

HWTS:

Name:	CYPRESS AUTO REPAIR & SMOG
Address:	6036 CERRITOS AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906304828
EPA ID:	CAL000258862
Inactive Date:	Not reported
Create Date:	09/09/2002
Last Act Date:	07/14/2020
Mailing Name:	Not reported

CYPRESS AUTO REPAIR & SMOG (Continued) **S113121968**

Mailing Address:	6036 CERRITOS AVENUE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CYPRESS, CA 906304828
Owner Name:	DEAN STINSON
Owner Address:	6861 VAN GUARD ST
Owner Address 2:	Not reported
Owner City,State,Zip:	GARDEN GROVE, CA 92845
Contact Name:	DEAN STINSON/OWNER
Contact Address:	6861 VANGUARD AVE
Contact Address 2:	Not reported
City,State,Zip:	GARDEN GROVE, CA 928452587

NAICS:

EPA ID:	CAL000258862
Create Date:	2002-09-09 08:36:05.060
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	2002-09-09 08:36:05.01300
Inactive Date:	Not reported
Facility Name:	CYPRESS AUTO REPAIR & SMOG
Facility Address:	6036 CERRITOS AVE
Facility Address 2:	Not reported
Facility City:	CYPRESS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	906304828

T89 **CYPRESS AUTO REPAIR & SMOG** **RCRA NonGen / NLR** **1024804572**
NE **6036 CERRITOS AVE** **CAL000258862**
1/8-1/4 **CYPRESS, CA 90630**
0.240 mi.
1266 ft. **Site 13 of 14 in cluster T**

Relative: **Higher**
Actual: **43 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2002-09-09 00:00:00.0
Handler Name:	CYPRESS AUTO REPAIR & SMOG
Handler Address:	6036 CERRITOS AVE
Handler City,State,Zip:	CYPRESS, CA 90630-4828
EPA ID:	CAL000258862
Contact Name:	DEAN STINSON/OWNER
Contact Address:	6861 VANGUARD AVE
Contact City,State,Zip:	GARDEN GROVE, CA 92845-2587
Contact Telephone:	714-826-5555
Contact Fax:	714-826-6353
Contact Email:	CYPRESSAUTOREPAIR@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:	6036 CERRITOS AVE
Mailing City,State,Zip:	CYPRESS, CA 90630-4828

CYPRESS AUTO REPAIR & SMOG (Continued) **1024804572**

Owner Name:	DEAN STINSON
Owner Type:	Other
Operator Name:	DEAN STINSON/OWNER
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:	2018-09-05 15:46:25.0
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

CYPRESS AUTO REPAIR & SMOG (Continued) **1024804572**

Manifest Broker: No
Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: DEAN STINSON
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 6861 VAN GUARD ST
Owner/Operator City,State,Zip: GARDEN GROVE, CA 92845
Owner/Operator Telephone: 714-403-4978
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: DEAN STINSON/OWNER
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 6861 VANGUARD AVE
Owner/Operator City,State,Zip: GARDEN GROVE, CA 92845-2587
Owner/Operator Telephone: 714-826-5555
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2002-09-09 00:00:00.0
Handler Name: CYPRESS AUTO REPAIR & SMOG
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

T90 **ONE WAY TRANSMISSION** **RCRA-SQG** **1000596051**
NE **6036 CERRITOS** **FINDS** **CAD983600107**
1/8-1/4 **CYPRESS, CA 90630** **ECHO**
0.240 mi.
1266 ft. **Site 14 of 14 in cluster T**

Relative: **Higher**
Actual: **43 ft.**

RCRA-SQG:

Date Form Received by Agency:		1991-08-05 00:00:00.0
Handler Name:	ONE WAY TRANSMISSION	
Handler Address:		6036 CERRITOS
Handler City,State,Zip:		CYPRESS, CA 90630
EPA ID:		CAD983600107
Contact Name:		DAVE PORTER
Contact Address:		6036 CERRITOS
Contact City,State,Zip:		CYPRESS, CA 90630
Contact Telephone:		714-827-1919
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		CERRITOS
Mailing City,State,Zip:		CYPRESS, CA 90630
Owner Name:		DAVE PORTER
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

ONE WAY TRANSMISSION (Continued) **1000596051**

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:	2000-09-15 17:30:34.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DAVE PORTER
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6036 CERRITOS
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-827-1919
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1991-08-05 00:00:00.0
Handler Name: ONE WAY TRANSMISSION	
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

ONE WAY TRANSMISSION (Continued) **1000596051**

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: 110002856883

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000596051
Registry ID: 110002856883
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002856883
Name: ONE WAY TRANSMISSION
Address: 6036 CERRITOS
City,State,Zip: CYPRESS, CA 90630

W91 **WADE AUTOMOTIVE LLC** **RCRA-LQG** **1026494050**
NE **6040 CERRITOS** **CAR000310177**
1/8-1/4 **CYPRESS, CA 90630**
0.241 mi.
1274 ft. **Site 1 of 10 in cluster W**

Relative: **Higher**
Actual: **43 ft.**

RCRA-LQG:
Date Form Received by Agency: 2020-07-24 00:00:00.0
Handler Name: WADE AUTOMOTIVE LLC
Handler Address: 6040 CERRITOS
Handler City,State,Zip: CYPRESS, CA 90630
EPA ID: CAR000310177
Contact Name: TODD WADE
Contact Address: CERRITOS
Contact City,State,Zip: CYPRESS, CA 90630
Contact Telephone: 714-828-9740
Contact Fax: Not reported
Contact Email: TODD@GETHIITBOX.COM
Contact Title: CEO
EPA Region: 09

WADE AUTOMOTIVE LLC (Continued) **1026494050**

Land Type:	Private
Federal Waste Generator Description:	Large 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:	CERRITOS
Mailing City,State,Zip:	CYPRESS, CA 90630
Owner Name:	TODD WADE
Owner Type:	Private
Operator Name:	WADE AUTOMOTIVE LLC
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:	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:	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

WADE AUTOMOTIVE LLC (Continued) **1026494050**

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:	2020-07-29 12:40:53.0
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

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D006
Waste Description:	CADMIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008
Waste Description:	LEAD
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 SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	TODD WADE
Legal Status:	Private
Date Became Current:	2020-05-28 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	6040 CERRITOS
Owner/Operator City,State,Zip:	CYPRESS, CA 90630

WADE AUTOMOTIVE LLC (Continued) **1026494050**

Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: WADE AUTOMOTIVE LLC
Legal Status: Private
Date Became Current: 2020-05-28 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 6040 CERRITOS
Owner/Operator City,State,Zip: CYPRESS, CA 90630
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2020-07-24 00:00:00.0
Handler Name: WADE AUTOMOTIVE LLC
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: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 811121
NAICS Description: AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

W92 **AGN CORP DBA MIDAS MUFFLER** **RCRA NonGen / NLR** **1024838828**
NE **6040 CERRITOS AVE** **CAL000386166**
1/8-1/4 **CYPRESS, CA 90630**
0.241 mi.
1274 ft. **Site 2 of 10 in cluster W**

Relative: Higher
Actual: 43 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 2013-06-11 00:00:00.0
Handler Name: AGN CORP DBA MIDAS MUFFLER
Handler Address: 6040 CERRITOS AVE
Handler City,State,Zip: CYPRESS, CA 90630-5809
EPA ID: CAL000386166
Contact Name: MOHINDER NANDA
Contact Address: 6040 CERRITOS AVE

AGN CORP DBA MIDAS MUFFLER (Continued) **1024838828**

Contact City,State,Zip:	CYPRESS, CA 90630-5809
Contact Telephone:	714-828-9740
Contact Fax:	714-828-7151
Contact Email:	MIDASCYPRESS@GMAIL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	6040 CERRITOS AVE
Mailing City,State,Zip:	CYPRESS, CA 90630-5809
Owner Name:	AGN CORPORATION
Owner Type:	Other
Operator Name:	MOHINDER NANDA
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

AGN CORP DBA MIDAS MUFFLER (Continued) **1024838828**

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:	2018-09-06 17:02:31.0
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:	AGN CORPORATION
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6040 CERRITOS AVE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630-5809
Owner/Operator Telephone:	714-875-8962
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MOHINDER NANDA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6040 CERRITOS AVE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630-5809
Owner/Operator Telephone:	714-828-9740
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2013-06-11 00:00:00.0
Handler Name:	AGN CORP DBA MIDAS MUFFLER
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

AGN CORP DBA MIDAS MUFFLER (Continued) **1024838828**

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: 811121
NAICS Description: AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

W93 **MIDAS AUTOMOTIVE CYPRESS** **CERS HAZ WASTE** **S126976679**
NE **6040 W CERRITOS AVE** **N/A**
1/8-1/4 **CYPRESS, CA 90630**
0.241 mi.
1274 ft. **Site 3 of 10 in cluster W**

Relative:
Higher

Actual:
43 ft.

CERS HAZ WASTE:
Name: MIDAS AUTOMOTIVE CYPRESS
Address: 6040 W CERRITOS AVE
City,State,Zip: CYPRESS, CA 90630
Site ID: 568431
CERS ID: 10851847
CERS Description: Hazardous Waste Generator

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6406

Affiliation Type Desc: Legal Owner
Entity Name: Wade Automotive LLC
Entity Title: Not reported
Affiliation Address: 6040 w cerritos ave
Affiliation City: cypress
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90630
Affiliation Phone: (714) 828-9740

Affiliation Type Desc: Operator
Entity Name: Todd Wade
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported

MIDAS AUTOMOTIVE CYPRESS (Continued) **S126976679**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(520) 349-9983
Affiliation Type Desc:	Environmental Contact
Entity Name:	Todd Wade
Entity Title:	Not reported
Affiliation Address:	6040 w cerritos ave
Affiliation City:	cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Todd Wade
Entity Title:	CEO
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	6040 w cerritos ave
Affiliation City:	cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Todd Wade
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Midas Automotive Cypress
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

W94 **MIDAS MUFFLER & BRAKE** **CERS HAZ WASTE** **S123519639**
NE **6040 CERRITOS AVE** **CERS** **N/A**
1/8-1/4 **CYPRESS, CA 90630**
0.241 mi.
1274 ft. **Site 4 of 10 in cluster W**

Relative:
Higher

Actual:
43 ft.

CERS HAZ WASTE:
Name: MIDAS MUFFLER & BRAKE
Address: 6040 CERRITOS AVE
City,State,Zip: CYPRESS, CA 90630
Site ID: 425726
CERS ID: 10580965
CERS Description: Hazardous Waste Generator

CERS:
Name: MIDAS MUFFLER & BRAKE
Address: 6040 CERRITOS AVE
City,State,Zip: CYPRESS, CA 90630
Site ID: 425726
CERS ID: 10580965
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 425726
Site Name: MIDAS MUFFLER & BRAKE
Violation Date: 09-12-2017
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 12/27/2017. This facilityG s EPA ID number is inactive. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an EPA ID number. Immediately contact DTSC and reactivate your EPA ID number and submit evidence to me at berdman@ochca.com within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 425726
Site Name: MIDAS MUFFLER & BRAKE
Violation Date: 07-26-2017
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 10/06/2017. HMBEP has not yet been submitted. Please submit an HMBEP that includes all chemicals listed in this report within the next 30 days. You can access the submission portal at http://cers.calepa.ca.gov/.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 425726
Site Name: MIDAS MUFFLER & BRAKE

MIDAS MUFFLER & BRAKE (Continued) **S123519639**

Violation Date:	09-08-2020
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 10/08/2020. OBSERVATION: The generator has not obtained a valid EPA ID number following a change of ownership. CORRECTIVE ACTION: Please obtain an EPA ID number by submitting DTSC form 1358 to the Department of Toxic Substances Control immediately. Notify this agency when the new number has been issued.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	425726
Site Name:	MIDAS MUFFLER & BRAKE
Violation Date:	07-26-2017
Citation:	22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description:	Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes:	Returned to compliance on 09/12/2017. The hazardous waste disposal records for the last 3 years were not available for review. Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. Immediately locate a copy of all manifests and receipts for the last three years, maintain them on site.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	425726
Site Name:	MIDAS MUFFLER & BRAKE
Violation Date:	04-08-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to 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 04/16/2020. The facility failed to submit the Hazardous Materials Business Emergency Plan by the due date of March 1, 2020. Corrective action: Within 30 days, notify this Agency that the plan has been submitted on CERS.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	425726
Site Name:	MIDAS MUFFLER & BRAKE
Violation Date:	07-26-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)

MIDAS MUFFLER & BRAKE (Continued) **S123519639**

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 09/12/2017. The accumulation start date was missing from the waste oil tank label and the waste antifreeze. All hazardous waste tanks shall be marked with the words G Hazardous WasteG and the accumulation start date. Immediately ensure that all hazardous waste tanks are marked with the required information.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	425726
Site Name:	MIDAS MUFFLER & BRAKE
Violation Date:	08-05-2014
Citation:	22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description:	Failure to properly close hazardous waste containers when not in active use.
Violation Notes:	Returned to compliance on 08/05/2014. Hazardous containers used to store waste liquid must be PROPERLY CLOSED. For hazardous waste liquids, drums must have the lids and bung caps screwed on tight to prevent an unauthorized release. This violation was corrected during this inspection.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	425726
Site Name:	MIDAS MUFFLER & BRAKE
Violation Date:	08-05-2014
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 08/05/2014. All containers used to store hazardous waste must be labeled. In addition, all labels must be legible. In order to ensure compliance, routinely check labels to ensure the required information is visible and legible. Labels were provided during this inspection. This violation was corrected on this date.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	425726
Site Name:	MIDAS MUFFLER & BRAKE
Violation Date:	09-08-2020
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.

MIDAS MUFFLER & BRAKE (Continued) **S123519639**

Violation Notes:	OBSERVATION: Facility failed to complete and/or electronically submit a Hazardous Materials Business Plan (HMBP), when storing and/or handling hazardous materials at or above the reportable threshold quantity. CORRECTIVE ACTION: Immediately complete an HMBP and submit it electronically via CERS. The HMBP consists of the following: emergency response plans & procedures, a site map, and annual employee training related to hazardous materials handling. Maintain annual employee training records for 3 years (sign-in sheet documenting the names of employees trained, the date they were trained, and the subject matter that they were trained on). Hazardous Materials documents can be submitted via the California Electronic Reporting System (CERS) located at http://cers.calepa.ca.gov/.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	425726
Site Name:	MIDAS MUFFLER & BRAKE
Violation Date:	07-26-2017
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 business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/06/2017. The HMBEP documents can be electronically submitted by going to the CERS website at http://cers.calepa.ca.gov/ and create an account. User guides and tutorials are located on the home page to help you get started. The following HMBEP documents that must be electronically submitted: - Business Activities form - Owner/Operator Identification form - Hazardous Material Chemical Inventory forms - Facility Site Map - Business Emergency Plan
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	425726
Site Name:	MIDAS MUFFLER & BRAKE
Violation Date:	07-28-2020
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 07/28/2020. OBSERVATION: The 55 gallon containers of used oil and fuel filters were not properly labeled. CORRECTIVE ACTION: New labels were placed on the containers. Violation corrected.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	425726
Site Name:	MIDAS MUFFLER & BRAKE
Violation Date:	07-26-2017
Citation:	22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description:	Failure to send hazardous waste offsite for treatment, storage, or

MIDAS MUFFLER & BRAKE (Continued) **S123519639**

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 09/12/2017. The designated drain used oil filter drum had an accumulation start date of 8-27-14 and have been stored on site beyond 1 year. CORRECTIVE ACTION: Immediately contact a hauler to dispose of this waste under manifest or an consolidated manifest.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-02-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Review dumpster after New Years holiday. Trash but no HW.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-27-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On site evaluation of the dumpster. Municipal trash only.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-17-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Early morning inspection. No HW in the dumpster, only municipal trash. Interviewed the original complainants. No more evidence of oil filter disposal to the trash over the last several months. I saw a waste oil filter drum inside Midas. I did not make contact. This case will be closed out.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-08-2020
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: The facility has failed to submit the Hazardous Materials Business Emergency Plan by the deadline March 1, 2020. To correct the violation log on to CERS and submit the business plan for the year 2020. A copy of this report was sent to midascypress@gmail.com.

MIDAS MUFFLER & BRAKE (Continued) **S123519639**

Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-17-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed the submittal dated 4/16/2020 for sections: Facility Information, Hazardous Materials Inventory, and Emergency Response and Training Plans. The Facility Information section was not accepted. Violation I463 was observed to be corrected. No further corrective action required. A copy of this report was sent to midascypress@gmail.com.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-26-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for a routine hazardous waste inspection. Consent to enter and conduct inspection activities was provided by Derrick Grayer. The facility no longer has a brake cleaning machine on site. Business ownership information was verified. The current number of employees 4. Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed. The accumulation start date was missing from the waste oil tank label and the waste antifreeze (see violation). The designated drain used oil filter drum had an accumulation start date of 8-27-14 (see violation). Manifests were not available for review (see violation). Employees are reported to be trained. Emergency plan is posted near front of the store. A perimeter walk was conducted and the dumpster enclosure was observed. No evidence of illegal dumping was noted. A follow inspection will be conducted to verify the removal of the drained used oil filters and to review the [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-26-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine hazardous materials and Hazardous Materials Business Emergency Plan (HMBEP) inspection. Consent to enter and conduct inspection activities was provided by Derrick Grayer. Observed the facility and inspected hazardous materials storage. The minimum disclosure thresholds for the HMBEP program are 55 gallons of a liquid, 500 pounds of a solid or 200 cubic feet of a compressed gas. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: HM -Motor oil HW - Used oil Business emergency plan has not yet been submitted in CERS. Annual employee safety training records were not available. The facility is responsible for identifying all hazardous materials, to include hazardous wastes, which are above disclosure thresholds. If there is a

MIDAS MUFFLER & BRAKE (Continued) **S123519639**

change in the type or amount of chemicals that are maintained on site, please submit revised documents (electronically) within 30 days of the [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-28-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - 1 x 275 gal used oil - 3 x 55 gal new oil + 1 x 65 gal new oil REQUIREMENT FOR ELECTRONIC SUBMITTAL OF HMBP DOCUMENTS: This report serves as notice that the facility must submit the following documents electronically within 30 days of this report: - Business Activities - Owner/Operator Information - Hazardous Materials Inventory - Site Map - Emergency Response Plan - Employee Training Plan The facility is responsible for identifying all hazardous materials, to include hazardous wastes, which are above disclosure thresholds. If there is a change in the type or amount of chemicals that are maintained on site, please submit revised documents (electronically) within 30 days of the change. Hazardous Materials documents can be submitted via the California Environmental Reporting [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-28-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed. Employees are reported to be trained. No hazardous waste or universal waste observed in the dumpster/enclosure area. No hazardous waste violations were observed this date. Per T. Wade, the facility has submitted documentation to obtain an EPA ID number. Please notify this Agency once the number has been assigned.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-05-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Midas Muffler and Brake Shop 6040 Cerritos Avenue Cypress, CA 90630 On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Met with facility owner Sal Lombardi, who provided consent to enter and inspect the facility. A walk through of the facility has verified (3) chemicals above threshold quantities. Used Oil - max volume= 275 gallons New motor oil-max volume = 210 gallons New ATF - max volume = 100 gallons To date, the facility has not prepared or submitted a hazardous materials business emergency plan via the Orange

MIDAS MUFFLER & BRAKE (Continued) **S123519639**

	County E-Submit portal (See violations I292 above). Please visit www.esubmit.ocgov.com and request a username and password. Once received, log in and complete the HMBEP. Facility has 30-days to submit a hazardous materials business emergency plan on the Orange County e-submit portal.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-05-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. Met with facility owner Sal Lombardi, who gave consent to enter and inspect the facility. Hazardous waste observed on site include: - (1) 275-gallon tote containing waste motor oil, (1) 30-gallon drum containing waste antifreeze, and (1) 55-gallon drum for used oil filters. The label on the container storing oil was not visible and the container was stored open (see violations I617 and I400 above). Hazardous waste manifests were available for review. Perimeter of the facility and the municipal dumpster was inspected. Did not observe any indication of a hazardous waste release or illegal dumping along the perimeter of the facility. The Hazardous Waste Emergency Response information was posted in the facility.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-08-2020
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The facility has been previously notified that an electronic disclosure of the Hazardous Materials Business Plan (HMBP) must be submitted via the California Environmental Reporting System (CERS). The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - 1 x 275 gal used oil - 3 x 55 gal new oil + 1 x 65 gal new oil The facility is responsible for identifying all hazardous materials, to include hazardous wastes, which are above disclosure thresholds. If there is a change in the type or amount of chemicals that are maintained on site, please submit revised documents in CERS within 30 days of the change. The following violation was issued this date:
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-08-2020
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has not yet received notification that the facility has obtained an EPA ID number following a change of ownership. The following violation has been issued this date:
Eval Division:	Orange County Environmental Health
Eval Program:	HW

MIDAS MUFFLER & BRAKE (Continued) **S123519639**

Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-12-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Assisted the business with the CERS Submission. An account was previously created.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-12-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site to conduct a follow-up inspection. I met with the manager Derrick Grayer and Jessica Fonseca. A copy of the disposal records were available for review. Violation I474 is corrected. The drained used oil filters were disposed of on 8-25-17. Violation I053 is corrected. The waste oil tote and the waste antifreeze container were observed with hazardous waste labels posted. Violation I400 is corrected. The EPA ID # CAL000386160 is currently inactive (see violation). Discussed how to reactivate the EPA ID #. The DTSC Form 1358 was printed. Ensure it is completed and sent to the DTSC.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-06-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Jessica from Midas called as requested assistance with the CERS submittal. The CERS submission was reviewed and is complete and accepted. Violations I292 and I169 are corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-08-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has confirmed that the facility has obtained an EPA ID number, CAR000310177. The following violation has been corrected: - I352: Facility does not have an EPA ID number to manage hazardous waste The facility has no outstanding Hazardous Waste violations
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-18-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Citizen allegation of an unknown business dumping waste oil filters to

MIDAS MUFFLER & BRAKE (Continued) **S123519639**

	the municipal trash. Midas Muffler is in the complex and a possible suspect. Complaint received by DTSC on 10-8-13. It is now 10-18-13, 10 days later. No rush to check the dumpster. Open file.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-29-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site visit. This is on the S/E corner of Cerritos and Valley View. The building in question is on the south side of the property. Midas (6040 Cerritos) is the second from the east end. Directly west (in the same building but separate address/business) is Cypress Auto Repair and Smog (6036 Cerritos) and City Wide Auto Care (6026 Cerritos). There is an alleyway and parking lot directly south of the building. The municipal trash dumpster directly behind Midas was described by the anonymous informant as the dumpster where the oil filters had been disposed. I checked the dumpster and found only municipal trash, along with furniture dumped in the trash enclosure. There was a 5 gallon plastic pail of used motor oil in the planter to the rear of the dumpster. While checking the dumpster, I saw an employee of Cypress Auto Care (next door to Midas) watching me. Thinking that he may be the suspect company, I explained that I was following up on an anonymous complaint of oil [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-30-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Called Stinson. Left VM. Call from Mc Connell. Discussed the case. Set meeting for 11-4-13/1100. Called CALRECYCLE/Randolph. 951-782-4943. "Does CALRECYCLE have surveillance capabilities?" Yes they do. She wants to meet me at the site and evaluate it for surveillance capabilities. I will call her after the OCDA meeting and set the date/time.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-31-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site surveillance in AM. Midas dumped trash 2x but no HW.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-01-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency

MIDAS MUFFLER & BRAKE (Continued) **S123519639**

Eval Notes:	Called Cypress Auto/Stinson. Reinterviewed. He did not actually see a Midas employee dump the oil filters nor the tires into the dumpster. He has just seen these dumped to the dumpster behind Midas several times and it started only after Midas moved in. Called City wide/Prais. He was not in but an employee/Kevin said that they have not seen Midas dump tires, only that their tire pile gets added tires at least o1-2 times per week. Computer investigation. Goggle Earth view of site for meeting. Sites inHCA/Envision Connect database: City Wide Auto 6026 Cerritos HW/WTE Cypress Auto 6036 Cerritos HW/HMBEP Midas 6040 Cerritos HW Metric Motors 6042 Cerritos HW/HMBEP Integrity Transmission 6044 Cerritos HW CALRECYCLE database: Big O 6052 Cerritos WTE inspection 3-9-2011. No violations. 1-28-13, no violations. City Wide 6026 Cerritos WTE inspection 2-25-13, no violations. Information to file.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-08-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site to follow up on a violation that was noted on a previous inspection report. The following violation is outstanding and must be corrected immediately: - I208: Failure to establish and implement a business plan when storing hazardous materials at or above the reportable threshold quantities CORRECTIVE ACTION: Immediately complete an HMBP and submit it electronically via CERS. The HMBP consists of the following: - Business Activities - Owner/Operator Information - Hazardous Materials Inventory - Site Map - Emergency Response Plan - Employee Training Plan
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-27-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The facility's California EPA ID # CAL000386166 is active. Violation I352 is corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	425726
Facility Name:	MIDAS MUFFLER & BRAKE
Env Int Type Code:	HMBP
Program ID:	10580965
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.809840
Longitude:	-118.026110

Affiliation:

MIDAS MUFFLER & BRAKE (Continued) **S123519639**

Affiliation Type Desc:	Environmental Contact
Entity Name:	Derrick Grayer
Entity Title:	Not reported
Affiliation Address:	6040 CERRITOS AVE
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Mohinder Nanda
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 828-9740

Affiliation Type Desc:	Parent Corporation
Entity Name:	MIDAS MUFFLER & BRAKE
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Mohinder Nanda
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	6040 Cerritos Ave
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	AGN Corporation
Entity Title:	Not reported
Affiliation Address:	6040 CERRITOS AVE
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	United States

MIDAS MUFFLER & BRAKE (Continued) **S123519639**

Affiliation Zip:	90630
Affiliation Phone:	(714) 828-9740
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406
Affiliation Type Desc:	Identification Signer
Entity Name:	Mohinder Nanda
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

W95 **CYPRESS METRIC MOTORS** **RCRA-SQG** **1000596535**
NE **6042 CERRITOS AVE** **CERS HAZ WASTE** **CAD983605098**
1/8-1/4 **CYPRESS, CA 90630** **FINDS**
0.242 mi. **ECHO**
1278 ft. **Site 5 of 10 in cluster W** **HAZNET**
CERS
Relative: Higher **HWTS**

Actual: 43 ft.

RCRA-SQG:

Date Form Received by Agency:		1991-09-09 00:00:00.0
Handler Name:	CYPRESS METRIC MOTORS	
Handler Address:		6042 CERRITOS AVE
Handler City,State,Zip:		CYPRESS, CA 90630-4828
EPA ID:		CAD983605098
Contact Name:		JOHN HERRON
Contact Address:		6042 CERRITOS AVE
Contact City,State,Zip:		CYPRESS, CA 90630-4828
Contact Telephone:		714-821-4702
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Other
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		6042 CERRITOS AVE
Mailing City,State,Zip:		CYPRESS, CA 90630-4828
Owner Name:		JOHN H HERRON
Owner Type:		Private

CYPRESS METRIC MOTORS (Continued) **1000596535**

Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2002-06-27 03:35:38.0
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

CYPRESS METRIC MOTORS (Continued) **1000596535**

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: JOHN H HERRON
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 2842 COLERIDGE
Owner/Operator City,State,Zip: LOS ALAMITOS, CA 90720
Owner/Operator Telephone: 213-493-1196
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 1991-09-09 00:00:00.0
Handler Name: CYPRESS METRIC MOTORS
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: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

CERS HAZ WASTE:
Name: METRIC MOTORS OF CYPRESS
Address: 6042 CERRITOS AVE
City,State,Zip: CYPRESS, CA 90630
Site ID: 424837
CERS ID: 10540117
CERS Description: Hazardous Waste Generator

FINDS:
Registry ID: 110002860413

Click Here:

Environmental Interest/Information System:
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for

CYPRESS METRIC MOTORS (Continued) **1000596535**

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.
UORS (California - Used Oil Recycling System). California Integrated Waste Management Board (CIWMB) helps communities establish and promote convenient collection opportunities for used oil and used oil filters.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000596535
Registry ID:	110002860413
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002860413
Name:	CYPRESS METRIC MOTORS
Address:	6042 CERRITOS AVE
City,State,Zip:	CYPRESS, CA 90630

HAZNET:

Name:	CYPRESS METRIC MOTORS
Address:	6042 CERRITOS AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
Contact:	JOHN H HERRON
Telephone:	5624931196
Mailing Name:	Not reported
Mailing Address:	6042 CERRITOS AVE
Year:	2019
Gepaid:	CAD983605098
TSD EPA ID:	AZR000520304
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:	0.05000
Year:	2007
Gepaid:	CAD983605098
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:	1.672
Year:	1998
Gepaid:	CAD983605098
TSD EPA ID:	CAD093459485
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	H01 - Transfer Station
Tons:	0.0288
Year:	1997

CYPRESS METRIC MOTORS (Continued) **1000596535**

Gepaid: CAD983605098
TSD EPA ID: CAD093459485
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H01 - Transfer Station
Tons: 0.0612

Year: 1996
Gepaid: CAD983605098
TSD EPA ID: CAD093459485
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H01 - Transfer Station
Tons: 0.0576

Year: 1995
Gepaid: CAD983605098
TSD EPA ID: CAD093459485
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H01 - Transfer Station
Tons: 0.0612

Year: 1993
Gepaid: CAD983605098
TSD EPA ID: CAT080013352
CA Waste Code: 135 - Unspecified aqueous solution
Disposal Method: R01 - Recycler
Tons: 0.231

Additional Info:
Year: 2007
Gen EPA ID: CAD983605098

Shipment Date: 20070522
Creation Date: 10/11/2007 18:30:06
Receipt Date: 20070525
Manifest ID: 000268970GBF
Trans EPA ID: CAD983615501
Trans Name: PACIFIC OIL COMPANY
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD099452708
Trans Name: INDSTRIAL SERVICE OIL COMPANY
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: 0.836
Waste Quantity: 220
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

CYPRESS METRIC MOTORS (Continued) **1000596535**

Shipment Date:	20070309
Creation Date:	9/20/2007 18:30:37
Receipt Date:	20070312
Manifest ID:	000056841GBF
Trans EPA ID:	CAD983615501
Trans Name:	PACIFIC OIL COMPANY
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDSTRIAL SERVICE OIL COMPANY
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:	0.836
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1997
Gen EPA ID:	CAD983605098
Shipment Date:	19971006
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971014
Manifest ID:	96605380
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	AZ0000001560
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD093459485
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.018
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970714
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19970723
Manifest ID:	96621681

CYPRESS METRIC MOTORS (Continued) **1000596535**

Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	AZ0000001560
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD093459485
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19970421
Creation Date:	7/17/1997 0:00:00
Receipt Date:	19970425
Manifest ID:	96667613
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	AZ0000001560
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD093459485
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19970128
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19970203
Manifest ID:	95484134
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	AZ0000001560
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD093459485
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture

CYPRESS METRIC MOTORS (Continued) **1000596535**

RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1996
Gen EPA ID:	CAD983605098
Shipment Date:	19961106
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961112
Manifest ID:	96304204
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	AZ0000001560
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD093459485
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960823
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19960828
Manifest ID:	95035141
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	AZ0000001560
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD093459485
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G

CYPRESS METRIC MOTORS (Continued) **1000596535**

Additional 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:	19960605
Creation Date:	9/12/1997 0:00:00
Receipt Date:	19960614
Manifest ID:	95971730
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD093459485
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960315
Creation Date:	10/4/1996 0:00:00
Receipt Date:	19960322
Manifest ID:	95546739
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD093459485
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1995
Gen EPA ID:	CAD983605098

CYPRESS METRIC MOTORS (Continued) **1000596535**

Shipment Date:	19951222
Creation Date:	9/18/1996 0:00:00
Receipt Date:	19951230
Manifest ID:	95634318
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD093459485
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19951011
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951016
Manifest ID:	95479924
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD093459485
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19950721
Creation Date:	4/1/1996 0:00:00
Receipt Date:	19950726
Manifest ID:	95415985
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD093459485

CYPRESS METRIC MOTORS (Continued) **1000596535**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19950427
Creation Date:	10/24/1995 0:00:00
Receipt Date:	19950504
Manifest ID:	95047309
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD093459485
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.018
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1993
Gen EPA ID:	CAD983605098

Shipment Date:	19931228
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931228
Manifest ID:	93045410
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported

CYPRESS METRIC MOTORS (Continued) **1000596535**

Meth Code:	R01 - Recycler
Quantity Tons:	0.231
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1998
Gen EPA ID:	CAD983605098
Shipment Date:	19980323
Creation Date:	5/26/1998 0:00:00
Receipt Date:	19980327
Manifest ID:	97392315
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	AZ0000001560
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD093459485
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980115
Creation Date:	3/31/1998 0:00:00
Receipt Date:	19980122
Manifest ID:	97481958
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	AZ0000001560
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD093459485
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD093459485
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	Not reported

CYPRESS METRIC MOTORS (Continued) **1000596535**

Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

CERS:
Name: METRIC MOTORS OF CYPRESS
Address: 6042 CERRITOS AVE
City,State,Zip: CYPRESS, CA 90630
Site ID: 424837
CERS ID: 10540117
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 424837
Site Name: METRIC MOTORS OF CYPRESS
Violation Date: 08-05-2014
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 08/05/2014. Hazardous waste labels on the containers were illegible. Please ensure that the information for each label is clear and legible. This violation was corrected during this inspection.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 424837
Site Name: METRIC MOTORS OF CYPRESS
Violation Date: 07-25-2017
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 11/28/2017. HMBEP has not yet been submitted. Please submit an HMBEP that includes all chemicals listed in this report within the next 30 days. You can access the submission portal at http://cers.calepa.ca.gov/.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 424837
Site Name: METRIC MOTORS OF CYPRESS
Violation Date: 06-29-2020
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 06/29/2020. OBSERVATION: The two containers of used oil and fuel filters were missing labels. CORRECTIVE ACTION: The containers were labeled during the inspection. Violation

CYPRESS METRIC MOTORS (Continued) **1000596535**

corrected.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 424837
Site Name: METRIC MOTORS OF CYPRESS
Violation Date: 08-05-2014
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description: Failure to properly close hazardous waste containers when not in active use.
Violation Notes: Returned to compliance on 08/05/2014. Containers storing hazardous waste liquids must be stored closed when not in active use. Lids and bung caps must be sealed tight. This violation was corrected during this inspection.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 424837
Site Name: METRIC MOTORS OF CYPRESS
Violation Date: 04-09-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to 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 05/11/2020. The facility failed to submit the Hazardous Materials Business Emergency plan before the deadline of March 1, 2020. Corrective action: Within 30 days, notify this Agency that the plan has been submitted on CERS.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 424837
Site Name: METRIC MOTORS OF CYPRESS
Violation Date: 07-25-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 07/25/2017. The waste oil containers labeling information was illegible. The hazardous waste labels were updated during this inspection. Violation was corrected.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 424837
Site Name: METRIC MOTORS OF CYPRESS
Violation Date: 07-25-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter

CYPRESS METRIC MOTORS (Continued) **1000596535**

	6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 11/28/2017. The HMBEP documents can be electronically submitted by going to the CERS website at http://cers.calepa.ca.gov/ and create an account. User guides and tutorials are located on the home page to help you get started. The following HMBEP documents that must be electronically submitted: - Business Activities form - Owner/Operator Identification form - Hazardous Material Chemical Inventory forms - Facility Site Map - Business Emergency Plan
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	424837
Site Name:	METRIC MOTORS OF CYPRESS
Violation Date:	10-24-2014
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 11/28/2017.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	424837
Site Name:	METRIC MOTORS OF CYPRESS
Violation Date:	10-24-2014
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 11/28/2017.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	424837
Site Name:	METRIC MOTORS OF CYPRESS
Violation Date:	08-05-2014
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 10/02/2014. The HMBEP must be prepared and submitted within 30 days from receipt of this report. Please go to www.esubmit.ocgov.com and log in using the credentials that were provided to you. Complete and submit all necessary information within 30 days from receipt of this report.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP

CYPRESS METRIC MOTORS (Continued) **1000596535**

Violation Source: CERS

Site ID: 424837
Site Name: METRIC MOTORS OF CYPRESS
Violation Date: 06-29-2020
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: OBSERVATION: The labels on the containers of used oil and waste antifreeze were missing the physical state and accumulation start date. Additionally, one container of waste antifreeze was inaccurately labeled as used oil. CORRECTIVE ACTION: Ensure all hazardous waste containers have been properly labeled and submit photos to this Agency within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 04-09-2020
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: The facility has failed to submit the Hazardous Materials Business Emergency Plan by the deadline March 1, 2020. To correct the violation log on to CERS and submit the business plan for the year 2020. A copy of this report was sent to AYSOJOHN@AOL.COM.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-23-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: 4/23/16: Review Esubmit and CERS. No Submission. Routine Inspection 8/5/16. VIOLATIONS OUTSTANDING. AEO CASE.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-11-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed the submittal dated 5/11/2020 for sections: Facility Information, Hazardous Materials Inventory, and Emergency Response and Training Plans. All sections were accepted. Violation I463 was observed to be corrected, no further corrective action required. A copy of this report was sent to AYSOJOHN@AOL.COM.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

CYPRESS METRIC MOTORS (Continued) **1000596535**

Eval General Type:	Other/Unknown
Eval Date:	05-24-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The facility submitted their HMBP to CERS 11/28/17, the submittal was accepted 11/30/17. Violations I292 and I169 have now been corrected. The facility has no outstanding violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-24-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-29-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed. Manifests were available and reviewed. Employees are reported to be trained. Hazardous Materials Business Plan on site. No hazardous waste or universal waste observed in the dumpster/enclosure area.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-03-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct an annual routine Hazardous Waste Inspection. On site with Spencer Facility contains: 3-55 gallon drums of used oil, 2-55 gallon drums of coolant, parts washer, 55 gallon drum of used oil filters. Hazardous waste containers are properly labeled and covered. Documents Available for review: 1. Hazardous waste Manifest/Receipts (keep a copy on site for three years). - Note: A copy of the federal manifest must be sent to DTSC. (Department of Toxic Substances Control, P.O. Box 400, Sacramento, CA 95812-0400). 2. Hazardous Waste Emergency Response information. Verified contact and owner information.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-25-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Consent to inspect and take photos was provided by

CYPRESS METRIC MOTORS (Continued) **1000596535**

Mr. John Herron. The following Hazardous Substances were observed being stored at above the reporting threshold: HM - Motor Oil HW - Used Oil - Waste Antifreeze This facility is responsible for identifying all hazardous materials and hazardous wastes, which are above the following disclosure thresholds: Solids > 500 pounds. Liquids > or = 55 gallons Gas > or = 200 cubic feet The facility has not completed or submitted the Hazardous Materials Business Emergency Plan in CERS. Violation I292 was previously issued. A site map is available for review. Mr.Herron stated he provides employee training with regards to spill and the evacuation meeting point. The facility began submitting the Hazardous Materials Business Emergency Plan during this inspection. A CERS account was received and the business activities and business [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-25-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. Consent to inspect the facility was provided by Mr. John Herron. The hazardous waste labels were illegible on the waste oil containers (see violation). The labels were completed and posted during this inspection. Violation I400 was corrected. Municipal dumpster area does not contain any hazardous waste. The perimeter of the facility was also inspected; no signs of releases were noted. Emergency Response Informational Sticker was complete. Hazardous waste containers were properly covered. Reviewed manifests, bills of lading and consolidated manifests for all hazardous waste streams. For further information about Hazardous Waste management, please refer to the Orange County CUPA website at www.occupainfo.com and open the PDF G Hazardous Waste the BasicsG .

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-28-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and accepted Business Information submittal on CERS. Facility has updated contact information.

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-05-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Met with facility owner John Herron, who provided consent to enter and inspect the facility. A walk through of the facility has verified (4) chemicals above threshold quantities. - Used Oil - max volume= 165 gallons - Waste antifreeze - max volume = 110

CYPRESS METRIC MOTORS (Continued) **1000596535**

gallons - New 5W20 motor oil - max volume = 75 gallons - New 5W30 motor oil - max volume = 75 gallons To date, the facility has not prepared or submitted a hazardous materials business emergency plan via the Orange County E-Submit portal (See violations I292 above). Visit www.esubmit.ocgov.com and log on using the credentials that were requested during this inspection. Complete the HMBEP including business declaration page, chemical description page, Business emergency plan, and facility plan. Facility has 30-days to submit a hazardous materials business emergency plan on the Orange County e-submit portal in order [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-05-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. Met with facility mechanic John Herron, who gave consent to enter and inspect the facility. Hazardous waste observed on site include: - (3) 55-gallon drums containing waste motor oil, (2) 55-gallon poly drums containing waste antifreeze, and (1) 55-gallon drum for used oil filters. The oil and antifreeze drums were observed open and the labels were illegible (see violations I617 and I400 above). Labels were provided during this inspection. Hazardous waste manifests for all hazardous waste streams were available for review. Perimeter of the facility and the municipal dumpster was inspected. Did not observe any indication of a hazardous waste release or illegal dumping along the perimeter of the facility. The Hazardous Waste Emergency Response information was posted in the facility.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-09-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review was conducted and the Facility information was not accepted. The owner information did not match what this agency has as the owner. John Herron is the president of Metric Motors of Cypress Inc. Also the Emergency Response Contingency plan was missing from the submission. Ensure this is added to the next CERS submission. Thank you

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-24-2014
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Orange County Environmental Health as the Certified Unified Program Agency (OC CUPA) is the administrating agency for the Hazardous Materials Disclosure and Business Emergency Plan programs (HMD/BEP) previously administered by the Orange County Fire Authority. During

CYPRESS METRIC MOTORS (Continued) **1000596535**

the months of August and December of 2013, the OC CUPA sent out letters to regulated businesses requesting them to electronically submit their HMD/BEP forms. Electronic submission of these forms is a legal requirement. Failure to submit HMD/BEP forms is in violation of the California Health & Safety Code Chapter 6.95. According to our records there is no electronic submission for this facility. Please go to www.esubmit.ocgov.com to request a username and password and submit your HMD/BEP forms within the next 30 days. Businesses may also submit forms via the California Environmental Reporting System. Please verify that all owner information that is prepopulated on the E-Submit Portal is still [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-16-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and declined Facility Information. The following corrections are needed: BUSINESS OWNER OPERATOR Our records indicate that the owner of this business is Metric Motors of Cypress Inc and not John Herron, who may be the president or other corporate officer. If this is the case, please resubmit the Business Owner Operator form within 30 days with correct owner information listed
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-28-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On site to follow-up on the outstanding violations for the non-completion of the electronic submittal of the Hazardous Materials Business Emergency Plan in CERS. I met with the owner Mr. John Herron. He updated the Ownership information, the site map and the emergency response plan. The HMBEP was completed and submitted in CERS. Violations I292 and I169 are corrected.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-30-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The Hazardous Materials Business Emergency Plan submitted in CERS (10540117) was reviewed. The 2017 submittal is complete and accepted. Thank you
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-08-2020
Violations Found: No

CYPRESS METRIC MOTORS (Continued) **1000596535**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site to follow up on violations that were noted on a previous inspection report. The following violation has been corrected: - I239: 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 The following violation is outstanding and must be corrected immediately: - I169: Failure to complete and electronically submit hazardous material inventory forms information for all reportable hazardous materials on site at or above reportable quantities CORRECTIVE ACTION: Review comments in CERS, revise, and submit the chemical inventory.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-08-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site to follow up on violations that were noted on a previous inspection report. The following violations have been corrected: - I400: 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 The facility has no outstanding violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Enforcement Action:

Site ID:	424837
Site Name:	METRIC MOTORS OF CYPRESS
Site Address:	6042 CERRITOS AVE
Site City:	CYPRESS
Site Zip:	90630
Enf Action Date:	06-24-2015
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:	HMD/BEP.
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	UNSPEC
Enf Action Source:	CERS

Coordinates:

Site ID:	424837
Facility Name:	METRIC MOTORS OF CYPRESS
Env Int Type Code:	HMBP
Program ID:	10540117
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.809840
Longitude:	-118.026080

CYPRESS METRIC MOTORS (Continued) **1000596535**

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406

Affiliation Type Desc:	Legal Owner
Entity Name:	CYPRESS METRIC MOTORS INC
Entity Title:	Not reported
Affiliation Address:	6042 CERRITOS
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(562) 714-0787

Affiliation Type Desc:	Environmental Contact
Entity Name:	JOHN HERRON
Entity Title:	Not reported
Affiliation Address:	2842 Coleridge
Affiliation City:	Los Alamitos
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90720
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	METRIC MOTORS OF CYPRESS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	JOHN HERRON
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	CYPRESS METRIC MOTORS INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported

CYPRESS METRIC MOTORS (Continued) **1000596535**

Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(562) 714-0787
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	6042 CERRITOS AVE
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	JOHN HERRON
Entity Title:	PRESIDENT
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

HWTS:

Name:	CYPRESS METRIC MOTORS
Address:	6042 CERRITOS AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
EPA ID:	CAD983605098
Inactive Date:	Not reported
Create Date:	09/09/1991
Last Act Date:	08/26/2020
Mailing Name:	Not reported
Mailing Address:	6042 CERRITOS AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CYPRESS, CA 906300000
Owner Name:	JOHN H HERRON
Owner Address:	2842 COLERIDGE DR
Owner Address 2:	Not reported
Owner City,State,Zip:	LOS ALAMITOS, CA 907204013
Contact Name:	JOHN H HERRON
Contact Address:	11201 FOSTER RD
Contact Address 2:	Not reported
City,State,Zip:	LOS ALAMITOS, CA 90720

NAICS:

EPA ID:	CAD983605098
Create Date:	2002-03-14 16:36:27.000
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	1991-09-09 00:00:00
Inactive Date:	Not reported
Facility Name:	CYPRESS METRIC MOTORS
Facility Address:	6042 CERRITOS AVE
Facility Address 2:	Not reported

CYPRESS METRIC MOTORS (Continued) **1000596535**

Facility City: CYPRESS
Facility County: Not reported
Facility State: CA
Facility Zip: 906300000

W96 **INTEGRITY TRANSMISSION** **CERS HAZ WASTE** **S113072649**
NE **6044 CERRITOS AVE** **HAZNET** **N/A**
1/8-1/4 **CYPRESS, CA 90630** **CERS**
0.243 mi. **HWTS**
1282 ft. **Site 6 of 10 in cluster W**

Relative:
Higher

Actual:
43 ft.

CERS HAZ WASTE:
Name: INTEGRITY TRANSMISSION
Address: 6044 CERRITOS AVE
City,State,Zip: CYPRESS, CA 90630
Site ID: 425699
CERS ID: 10574515
CERS Description: Hazardous Waste Generator

HAZNET:
Name: HI TEK AUTO CENTER
Address: 6044 CERRITOS AVE
Address 2: Not reported
City,State,Zip: CYPRESS, CA 906300000
Contact: SOHAIL HEMMAGI MOVED OUT 12/95
Telephone: 7148269771
Mailing Name: Not reported
Mailing Address: 6044 CERRITOS AVE

Year: 1995
Gepaid: CAL000128194
TSD EPA ID: CAD093459485
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H01 - Transfer Station
Tons: 0.0432

Year: 1995
Gepaid: CAL000128194
TSD EPA ID: CAT000613976
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: H01 - Transfer Station
Tons: 0.1395

Additional Info:
Year: 1995
Gen EPA ID: CAL000128194

Shipment Date: 19951011
Creation Date: 7/26/1996 0:00:00
Receipt Date: 19951016
Manifest ID: 95479925
Trans EPA ID: ILD984908202
Trans Name: Not reported
Trans 2 EPA ID: ILD984908202
Trans 2 Name: Not reported

INTEGRITY TRANSMISSION (Continued) **S113072649**

TSDF EPA ID:	CAD093459485
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0432
Waste Quantity:	12
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:	19950925
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19950925
Manifest ID:	93775319
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1395
Waste Quantity:	279
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

CERS:

Name:	INTEGRITY TRANSMISSION
Address:	6044 CERRITOS AVE
City,State,Zip:	CYPRESS, CA 90630
Site ID:	425699
CERS ID:	10574515
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	425699
Site Name:	INTEGRITY TRANSMISSION
Violation Date:	08-21-2017
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 business plan when storing/handling a hazardous material at or above reportable quantities.

INTEGRITY TRANSMISSION (Continued) **S113072649**

Violation Notes:	Returned to compliance on 12/21/2017. A business plan has not been received by the CUPA. The facility was previously sent a notice/request from the CUPA for the submittal of a business plan. Submit the business plan electronically in the California Environmental Reporting System (CERS) and implement immediately.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	425699
Site Name:	INTEGRITY TRANSMISSION
Violation Date:	08-04-2020
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	OBSERVATION: The containers of used oil and fuel filters were missing hazardous waste labels. The accumulation start date on the used oil and waste antifreeze containers was not up to date. CORRECTIVE ACTION: New labels were completed. Place labels on the containers and provide photos to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	425699
Site Name:	INTEGRITY TRANSMISSION
Violation Date:	08-04-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	OBSERVATION: The chemical inventory in CERS requires amendments. CORRECTIVE ACTION: Review comments in CERS, revise, and resubmit within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	425699
Site Name:	INTEGRITY TRANSMISSION
Violation Date:	08-21-2017
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 12/21/2017. The facility has not submitted the Hazardous Materials Inventory Chemical Description page for the following Hazardous Materials to the CUPA: -Motor Oil -Antifreeze -Waste oil -Waste Antifreeze Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System

INTEGRITY TRANSMISSION (Continued) **S113072649**

(CERS) within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 425699
Site Name: INTEGRITY TRANSMISSION
Violation Date: 08-05-2014
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 10/04/2014. The HMBEP (business activities page, chemical disclosure, business emergency plan, and facility map) must be prepared and submitted within 30 days from receipt of this report. Please go to www.esubmit.ocgov.com and log in using the credentials that were provided to you. Complete and submit all necessary information within 30 days from receipt of this report in order to abate this violation. Please contact me if you need further assistance.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 425699
Site Name: INTEGRITY TRANSMISSION
Violation Date: 08-21-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 08/21/2017. The waste oil container's hazardous waste labels were illegible. All hazardous waste containers shall be marked with the following information: 1) the words G Hazardous WasteG ; 2) name and address of generator; 3) hazardous properties; 4) physical state; 5) composition (contents); 6) accumulation start date. New Hazardous waste labels were completed and posted on the containers during this inspection and violation I400 was corrected.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 425699
Site Name: INTEGRITY TRANSMISSION
Violation Date: 08-04-2020
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: OBSERVATION: Training records were not available for review. Facility

INTEGRITY TRANSMISSION (Continued) **S113072649**

must conduct and document annual training for employees as specified in the employee training plan. CORRECTIVE ACTION: Please provide training records for the Hazardous Materials Business Plan with the following information documented: topic of training, date, employee name, employee signature. Submit documentation to this Agency within 30 days.

Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:

Eval General Type: Other/Unknown
Eval Date: 02-11-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBEP declined in E-Submit. The following notes were included in the review: "Provide the CAS# 68815-10-1 for engine oil. Verify the maximum daily amount. Previous inspections indicate that you have a max capacity of 110 gallons. Indicate that the material is a combustible liquid class III-A and mark fire under the federal hazard categories. Since this material is marked as waste, provide an annual waste amount and state waste code. Verify the value for days on site. A material is considered on-site if it is present in any amount. Previous inspections show that new oil (55 gallons) and new ATF (110 gallons) are also present at the facility. If this is still accurate please disclose these materials including all of the same information that was requested for waste oil. Provide detailed answers that address all the questions on the emergency plan page. For employee training, indicate the frequency and topics of the training. Training should be conducted on an annual [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-03-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct an annual routine Hazardous Waste Inspection. Met with Henry who explained the process and escorted me through the site. Facility contains: 2-55 gallon drums of used oil, 55 gallon drum of used oil filters, 55 gallon drum of used coolant. Hazardous waste containers are properly labeled and covered. Documents Available for review: 1. Hazardous waste Manifest/Receipts (keep a copy on site for three years). - Note: A copy of the federal manifest must be sent to DTSC. (Department of Toxic Substances Control, P.O. Box 400, Sacramento, CA 95812-0400). 2. Hazardous Waste Emergency Response information. Verified contact and owner information.

INTEGRITY TRANSMISSION (Continued) **S113072649**

Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-20-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Submission Declined Your HMBEP submission has been reviewed. Please correct the following and resubmit: Provide the CAS# 68815-10-1 for engine oil. Verify the maximum daily amount. Previous inspections indicate that you have a max capacity of 110 gallons. Indicate that the material is a combustible liquid class III-A and mark fire under the federal hazard categories. Since this material is marked as waste, provide an annual waste amount and state waste code. Verify the value for days on site. A material is considered on-site if it is present in any amount. Previous inspections show that new oil (55 gallons) and new ATF (110 gallons) are also present at the facility. If this is still accurate please disclose these materials including all of the same information that was requested for waste oil. Provide detailed answers that address all the questions on the emergency plan page. For employee training, indicate the frequency and topics of the training. [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-04-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - 3 x 55 gal new motor oil - 2 x 55 gal new ATF - 1 x 55 gal new coolant - 2 x 55 gal used oil
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-04-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed. Manifests were available and reviewed. Employees are reported to be trained. Contingency Plan on site. No hazardous waste or universal waste observed in the dumpster/enclosure area.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-05-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. Met with

INTEGRITY TRANSMISSION (Continued) **S113072649**

facility manager Henry Villegas Jr., who gave consent to enter and inspect the facility. Hazardous waste observed on site include: - (2) 55-gallon drums containing waste motor oil, (1) 55-gallon drum containing waste antifreeze, and (1) 55-gallon drum for used oil filters. All containers were labeled and properly closed. Hazardous waste manifests for all hazardous waste streams were available for review. Perimeter of the facility and the municipal dumpster was inspected. Did not observe any indication of a hazardous waste release or illegal dumping along the perimeter of the facility. The Hazardous Waste Emergency Response information was posted in the facility.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-05-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Met with facility manager Henry Villegas Jr, who provided consent to enter and inspect the facility. A walk through of the facility has verified (3) chemicals above threshold quantities. Used Oil - max volume= 110 gallons New oil - maz volume = 55 gallons New Automatic transmission fluid - max volume = 110 gallons To date, the facility has not prepared or submitted a hazardous materials business emergency plan via the Orange County E-Submit portal (See violations I292 above). Visit www.esubmit.ocgov.com and login with your username and password that were provided to you. Facility has 30-days to submit a hazardous materials business emergency plan on the Orange County e-submit portal. Please contact me or the portal administrator (714-433-6000) if you need additional assistance.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-21-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Consent to inspect was provided by Henry Villegas. A walk through of the facility was conducted. The following Hazardous Substances were observed being stored at above the reporting threshold and have not been disclosed electronically in CERS (see violation): HM - Motor Oil - Antifreeze HW - Waste oil - Waste Antifreeze This facility is responsible for identifying all hazardous materials and hazardous wastes, which are above the following disclosure thresholds: Solids > 500 pounds. Liquids > or = 55 gallons Gas > or = 200 cubic feet The facility has not completed or submitted the Hazardous Materials Business Emergency Plan in CERS (see violation). The HMBEP documents can be electronically submitted by going to the CERS website at http://cers.calepa.ca.gov/ and we visited the website and began to create an account. User guides and tutorials are located on the home to [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

INTEGRITY TRANSMISSION (Continued) **S113072649**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-21-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. Consent to inspect the facility was provided by Henry Villegas. The waste oil container's hazardous waste labels were illegible (see violation). New Hazardous waste labels were completed and posted on the containers during this inspection and violation I400 was corrected. Municipal dumpster area does not contain any hazardous waste. The perimeter of the facility was also inspected; no signs of releases were noted. Emergency Response Informational Sticker was complete. Hazardous waste containers were properly covered. Reviewed manifests, bills of lading and consolidated manifests for all hazardous waste streams. For further information about Hazardous Waste management, please refer to the Orange County CUPA website at www.occupainfo.com and open the PDF G Hazardous Waste the BasicsG .
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	12-05-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed the facility's CERS HMBEP Submission. Business Owner/Operator Identification page declined. Our records indicate ownership is under Henry Villegas, whereas your submission indicates ownership is under Henry Gilbert Villegas Jr. Please confirm the proper ownership of the facility with Justin Bechara - jbechara@ochca.com. Hazardous Material Inventory declined. During a routine inspection conducted 8/21/2017, the following hazardous materials were observed on site in quantities that meet or exceed thresholds of 55 gallons liquids, 500 pounds solids, or 200 cubic feet compressed gases: - Used motor Oil - New motor Oil - Antifreeze - Used antifreeze Corrections to hazardous materials inventory must be made within 30 days. When doing entry for used motor oil, please distinguish the "Hazardous Material Type" as waste and add state waste code 221, remove the state waste code for the new motor oil. Follow the same instructions for used antifreeze with state waste [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	12-21-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The facility has completed the Hazardous Materials Business Emergency Plan in CERS. The HMBEP is complete, verified and accepted. Violations I169 and I292 are corrected. Thank you
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Enforcement Action:

Site ID:	425699

INTEGRITY TRANSMISSION (Continued) **S113072649**

Site Name:	INTEGRITY TRANSMISSION
Site Address:	6044 CERRITOS AVE
Site City:	CYPRESS
Site Zip:	90630
Enf Action Date:	02-11-2016
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:	Failure to electronically submit HMD/BEP.
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Coordinates:

Site ID:	425699
Facility Name:	INTEGRITY TRANSMISSION
Env Int Type Code:	HMBP
Program ID:	10574515
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.809840
Longitude:	-118.026060

Affiliation:

Affiliation Type Desc:	Property Owner
Entity Name:	Rader Company
Entity Title:	Not reported
Affiliation Address:	8901 S La Cienega Blvd Ste 101
Affiliation City:	Inglewood
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90301
Affiliation Phone:	(310) 337-7075

Affiliation Type Desc:	Document Preparer
Entity Name:	Henry Villegas
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Henry Villegas
Entity Title:	President
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	INTEGRITY TRANSMISSION
Entity Title:	Not reported

INTEGRITY TRANSMISSION (Continued) **S113072649**

Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406
Affiliation Type Desc:	Environmental Contact
Entity Name:	Henry G Villegas Jr
Entity Title:	Not reported
Affiliation Address:	6044 Cerritos Avenue
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	6044 Cerritos Avenue
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	INTEGRITY TRANSMISSION
Entity Title:	Not reported
Affiliation Address:	integritytransmission@yahoo.com
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(714) 785-4568
Affiliation Type Desc:	Operator
Entity Name:	Henry Villegas
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 317-7519

INTEGRITY TRANSMISSION (Continued) **S113072649**

HWTS:

Name:	INTEGRITY TRANSMISSION
Address:	6044 CERRITOS AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 90630
EPA ID:	CAL000374777
Inactive Date:	06/30/2020
Create Date:	05/23/2012
Last Act Date:	01/04/2021
Mailing Name:	Not reported
Mailing Address:	6044 CERRITOS AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CYPRESS, CA 906300000
Owner Name:	HENRY VILLEGAS
Owner Address:	6044 CERRITOS AVENUE
Owner Address 2:	Not reported
Owner City,State,Zip:	CYPRESS, CA 906300000
Contact Name:	HENRY VILLEGAS
Contact Address:	6044 CERRITOS AVE
Contact Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 90630

NAICS:

EPA ID:	CAL000374777
Create Date:	2012-05-23 13:57:49.823
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	2012-05-23 13:57:49.81000
Inactive Date:	2020-06-30 00:00:00
Facility Name:	INTEGRITY TRANSMISSION
Facility Address:	6044 CERRITOS AVE
Facility Address 2:	Not reported
Facility City:	CYPRESS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	90630

EPA ID:	CAL000374777
Create Date:	2013-04-02 07:48:29.000
NAICS Code:	811113
NAICS Description:	Automotive Transmission Repair
Issued EPA ID Date:	2012-05-23 13:57:49.81000
Inactive Date:	2020-06-30 00:00:00
Facility Name:	INTEGRITY TRANSMISSION
Facility Address:	6044 CERRITOS AVE
Facility Address 2:	Not reported
Facility City:	CYPRESS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	90630

Name:	HI TEK AUTO CENTER
Address:	6044 CERRITOS AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
EPA ID:	CAL000128194

INTEGRITY TRANSMISSION (Continued) **S113072649**

Inactive Date:	01/01/1900
Create Date:	07/31/1995
Last Act Date:	08/01/1996
Mailing Name:	Not reported
Mailing Address:	6044 CERRITOS AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CYPRESS, CA 906300000
Owner Name:	SOHEL HAMMAGI, OWNER
Owner Address:	6044 CERRITOS AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	CYPRESS, CA 906300000
Contact Name:	SOHAIL HEMMAGI MOVED OUT 12/95
Contact Address:	HJ
Contact Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000

W97 **INTEGRITY TRANSMISSION** **RCRA NonGen / NLR** **1024834375**
NE **6044 CERRITOS AVE** **CAL000374777**
1/8-1/4 **CYPRESS, CA 90630**
0.243 mi.
1282 ft. **Site 7 of 10 in cluster W**

Relative: **Higher**

Actual: **43 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2012-05-23 00:00:00.0
Handler Name:	INTEGRITY TRANSMISSION	
Handler Address:		6044 CERRITOS AVE
Handler City,State,Zip:		CYPRESS, CA 90630
EPA ID:		CAL000374777
Contact Name:		HENRY VILLEGAS
Contact Address:		6044 CERRITOS AVE
Contact City,State,Zip:		CYPRESS, CA 90630
Contact Telephone:		714-785-4568
Contact Fax:		714-733-5680
Contact Email:		INTEGRITYTRANSMISSION@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:		6044 CERRITOS AVE
Mailing City,State,Zip:		CYPRESS, CA 90630-0000
Owner Name:		HENRY VILLEGAS
Owner Type:		Other
Operator Name:		HENRY VILLEGAS
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

INTEGRITY TRANSMISSION (Continued) **1024834375**

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:	2018-09-06 17:00:52.0
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:	HENRY VILLEGAS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6044 CERRITOS AVE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630

INTEGRITY TRANSMISSION (Continued) **1024834375**

Owner/Operator Telephone:	714-785-4568
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	HENRY VILLEGAS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6044 CERRITOS AVENUE
Owner/Operator City,State,Zip:	CYPRESS, CA 90630-0000
Owner/Operator Telephone:	714-785-4568
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2012-05-23 00:00:00.0
Handler Name:	INTEGRITY TRANSMISSION
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	811111
NAICS Description:	GENERAL AUTOMOTIVE REPAIR
NAICS Code:	811113
NAICS Description:	AUTOMOTIVE TRANSMISSION REPAIR

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

X98 **COOLANT MANAGEMENT SERVICES** **CERS HAZ WASTE** **S123505037**
SW **11052 VIA EL MERCADO** **CERS TANKS** **N/A**
1/8-1/4 **LOS ALAMITOS, CA 90720** **CERS**
0.244 mi.
1288 ft. **Site 1 of 4 in cluster X**

Relative: **Lower**
Actual: **33 ft.**

CERS HAZ WASTE:

Name:	COOLANT MANAGEMENT SERVICES
Address:	11052 VIA EL MERCADO
City,State,Zip:	LOS ALAMITOS, CA 90720
Site ID:	21620

COOLANT MANAGEMENT SERVICES (Continued) **S123505037**

CERS ID: 10448128
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: COOLANT MANAGEMENT SERVICES
Address: 11052 VIA EL MERCADO
City,State,Zip: LOS ALAMITOS, CA 90720
Site ID: 21620
CERS ID: 10448128
CERS Description: Aboveground Petroleum Storage

CERS:
Name: COOLANT MANAGEMENT SERVICES
Address: 11052 VIA EL MERCADO
City,State,Zip: LOS ALAMITOS, CA 90720
Site ID: 21620
CERS ID: 10448128
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 21620
Site Name: Coolant Management Services
Violation Date: 06-23-2017
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 07/05/2017. The facility has not submitted the Hazardous Materials Inventory Chemical Description page for : -Synthetic Cutting Fluid -Petroleum Cutting Fluid -Propane -DEF Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS).
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 21620
Site Name: Coolant Management Services
Violation Date: 08-13-2020
Citation: 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description: Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes: Returned to compliance on 08/13/2020. One 275 gallon plastic tote of Waste Coolant/Oil located in the warehouse was observed open. The tote was properly closed during the inspection. No further action required.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 21620

COOLANT MANAGEMENT SERVICES (Continued) **S123505037**

Site Name:	Coolant Management Services
Violation Date:	08-13-2020
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to conduct spill prevention briefing for oil-handling personnel at least once a year to assure adequate understanding of the SPCC Plan.
Violation Notes:	Returned to compliance on 09/03/2020. Facility has failed to schedule and conduct spill prevention briefings at least once a year. Conduct a spill prevention briefing and provide a copy of the record to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	21620
Site Name:	Coolant Management Services
Violation Date:	08-13-2020
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 09/01/2020. Employee training records covering topics related to the Hazardous Materials Business Plan (HMBP) were not available for review. All employees are required to be trained annually; new employees are required to be trained within 6 months. Please provide training records for the Hazardous Materials Business Plan to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	21620
Site Name:	Coolant Management Services
Violation Date:	04-09-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to 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 08/13/2020. Facility has not submitted a complete and accurate Hazardous Materials Business Emergency Plan (HMBEP) to the California Environmental Reporting System (CERS) since 2017. Business must submit an HMBEP to this Agency via CERS at http://cers.calepa.ca.gov/ within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	21620
Site Name:	Coolant Management Services
Violation Date:	08-13-2020
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to prepare an SPCC Plan that meets all applicable

COOLANT MANAGEMENT SERVICES (Continued) **S123505037**

	requirements.
Violation Notes:	Returned to compliance on 09/03/2020. Failure to prepare an SPCC Plan that meets all applicable requirements. Complete an SPCC Plan that meets all applicable requirements and submit a copy to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	21620
Site Name:	Coolant Management Services
Violation Date:	07-22-2014
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 07/22/2014. The 270 gallon tote of waste coolant and oil was missing the accumulation start date. The accumulation start date was updated on the tote. Therefore this violation W010 was abated today.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	21620
Site Name:	Coolant Management Services
Violation Date:	07-22-2014
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 07/22/2014. The 270 gallon tote of waste coolant and a bin of waste oil rags and absorbent was missing a hazardous waste label. Mr. Arnold posted a completed hazardous waste label on the tote and bin. Therefore violation W013 was abated today.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	21620
Site Name:	Coolant Management Services
Violation Date:	08-13-2020
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 08/13/2020. One 275 gallon plastic tote of Waste Coolant/Oil located in the warehouse was observed without a hazardous waste label. A completed label was affixed to the tote during the inspection. No further action required.

COOLANT MANAGEMENT SERVICES (Continued) **S123505037**

Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 21620
Site Name: Coolant Management Services
Violation Date: 08-13-2020
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to provide the following training to all oil-handling personnel: 1. Operation and maintenance of equipment to prevent discharges. 2. Discharge procedure protocols. 3. Applicable pollution control laws, rules, and regulations. 4. General facility operations. 5. Contents of the SPCC Plan.
Violation Notes: Returned to compliance on 09/03/2020. Facility has failed to provide adequate training to all oil-handling personnel to prevent the discharge of oil-filled containers. Conduct training with employees and provide a copy of training records to this Agency within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: APSA
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-09-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: VM from Miles. He has re submitted the HMBEP. Tried to find it in E-submit. Still shows as "rejected".. Called and left message for him to call back and discuss.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-16-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials inspection. Consent to inspect and take photos was provided by Miles Arnold. A tour of the facility was conducted. The business provides services and fluids for various Cutting Machines. This facility is responsible for identifying all hazardous materials and hazardous wastes, which are above the disclosure thresholds. Reporting thresholds for hazardous substances stored at the facility are 500 pounds of solids or 55 gallons of liquid or 200 cubic feet of gas. Hazardous substances should not include an annual waste amount. Hazardous wastes should have a separate disclosure. Please refer to the Orange County CUPA website at http://occupainfo.com/programs/hm for further assistance. The facility has approximately 5000 gallons of various grades of cutting fluids. Mr. Arnold provided a copy of a few MSDS's for review. The cutting fluid may be combined for the purpose of the HMBEP Chemical Disclose. Please combine the [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

COOLANT MANAGEMENT SERVICES (Continued) **S123505037**

Eval General Type:	Other/Unknown
Eval Date:	01-16-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	File review and violations abated during the facility inspection were corrected today.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-21-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Hi Miles, -Yes go ahead and break down the cutting fluids into 3 categories. -The Chemical name is for pure substances associated with the CAS # -The Common Name is the trade name of the chemical or mixture (Trim Sol ____) - The Ecomate FN CleanerG . I recommend calling the manufacturer and ask them what you should put on the submittal (sorry but usually calling the manufacturer is the fastest and best way to get the info you want) - Yes include the CAS # for water. -A waste cutting fluid doesnG t have a specific CAS # but list the CAS # for the various hazardous components of what the waste is mostly made of. -The Fire Code Hazard Class look at the Machin fluid Soluble or Machining fluid Synthetic as Combustible or OHH G Other Health HazardG or Irritant. ItG s hard to generalize for the specific fluids but do you best. -The fed hazard categories would mostly be Acute or Chronic. I donG t see to many reactive warnings on what you provided me. I hope this [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-18-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	2-18-15 Review conducted by Brian Erdman This submittal is Declined Please make the following changes: - The Trim Sol Microsol 585XT, C210 indicates it is a waste liquid. I'm not sure you wanted to put waste. Please check this. Also I remember there being a 270 gallon tote of waste cutting fluids. Please account for the waste cutting fluids. -The Emergency Plan - The Hospital is on Katella Ave not Ketella Ave. - Please briefly explain how you are going to train your employees. -The map was accepted by the last reviewer, however please indicate the location of the meeting area after an evacuation. Please resubmit.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-19-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Accepted ESubmit Review Coolant Management Services Review conducted by Brian Erdman 2-19-15 All of the coolant and cutting fluids you store onsite as per the Chemical Disclosure are stored at above

COOLANT MANAGEMENT SERVICES (Continued) **S123505037**

ambient Pressure. I don't think this is true as none of the tanks or drums I witnessed were under pressure accept for the propane. Please make this change. Also, please include the waste code for the waste cutting fluids. This can be found on a waste disposal manifest under waste code. Please let me know if you need anything else. Almost done.

---------- Review conducted 2/19/15 by Brian Erdman The E Submit Portal Electronic Submittal for Coolant Management Services is complete and accepted today. Thank you

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-12-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed HMBEP submission package on eSubmit Portal, DENIED. Request for re-submittal this date. Thank you for using the E Submit Portal. I have conducted a review of your submittal. Please review the following: -Business Activities - You indicate that you have an Aboveground Storage Tank with over 1320 gallons of petroleum Storage, however you did not disclose this substance in the Chemical Description. Please Verify - You also indicated that you consolidate hazardous waste generated at a remote site. However you indicate you donG t generate hazardous waste. Please Verify. -Business Owner / Operator form is complete -Chemical Description - Propane : - Please include the Common Name (Propane) and the CAS # (74-98-6) - Please indicate in the Fire Code Hazard Classes that not only is propane Flammable liquefied Gas (3.21) but also a Compressed Gas (CGas) - The Fed Hazard Categories, please mark the Fire box and Pressure Release box. - Please include [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-09-2020
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Facility has been identified to store hazardous materials on site over the reporting threshold of 55 gallons for a liquid, 500 pounds for a solid, or 200 cubic feet for a compressed gas and has been previously notified that an electronic disclosure of the Hazardous Materials Emergency Business Plan (HMBEP) must be submitted annually via the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/. REQUIREMENT FOR ELECTRONIC SUBMITTAL OF HMBEP DOCUMENTS: This report serves as a notice that the facility must immediately electronically submit an HMBEP, which includes the following documents: - Business Activities - Owner/Operator Information - Hazardous Materials Inventory - Site Map - Emergency Response Plan - Employee Training Plan Failure to comply with hazardous materials laws and regulations may result in penalties and/or enforcement action.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP

COOLANT MANAGEMENT SERVICES (Continued) **S123505037**

Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-23-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Aboveground Petroleum Storage Tank inspection. Consent to inspect was provided by Miles Arnold. The facility has the following Petroleum products stored in aboveground tanks or containers equal to or greater than 55 gallons: - 7270 gallons of CNC Coolant / cutting fluid The facility provided a copy of a current Spill Prevention Control & Countermeasures Plan and it was available for review at the facility (10-16-16). A training record for training conducted with regards the SPCC plan was also available for review. No APST violations were issued to the facility on this date. Thank you
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-23-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Consent to inspect and take photos was provided by Miles Arnold. A walk through of the facility was conducted. The following Hazardous Substances were observed being stored at above the reporting threshold: HM - Synthetic Trim sol cutting fluids - Petroleum Trim Sol Cutting fluid -Propane -Diesel Exhaust Fluid -Ecomate FN Parts washer solution HW -waste cutting fluid This facility is responsible for identifying all hazardous materials and hazardous wastes, which are above the following disclosure thresholds: Solids > 500 pounds. Liquids > or = 55 gallons Gas > or = 200 cubic feet Site map is available for review. Employee training is available for review. Ensure the HMBEP is resubmitted by March 1st every year.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-23-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. Consent to inspect and take photos at the facility was provided by Miles Arnold. The facility generates waste CNC coolant from testing coolant samples. Municipal dumpster area does not contain any hazardous waste. The perimeter of the facility was also inspected; no signs of releases were noted. Emergency Response Information was complete. Hazardous waste containers were properly labeled and covered. Reviewed manifests, bills of lading and consolidated manifests for all hazardous waste streams. For further information about Hazardous Waste management, please refer to the Orange County CUPA website at www.occupainfo.com and open the PDF G Hazardous Waste the BasicsG . No hazardous waste violations noted today.
Eval Division:	Orange County Environmental Health

COOLANT MANAGEMENT SERVICES (Continued) **S123505037**

Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-23-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The 2017 HMBEP submittal is not accepted today. Please add the following: -Synthetic Cutting Fluid -Petroleum Cutting Fluid -Propane -DEF -Adjust the Waste cutting fluid information. Add the North direction arrow and the evacuation meeting point to the map. Please re-submit with-in 30 days.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-29-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The owner called to discuss the not accepted CERS submittal.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-05-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The CERS 10448128 HMBEP submission for 2017 is accepted. The facility updated the Hazardous Materials Inventory in CERS to include the missing hazardous Substances. Violation I169 is corrected. Thank you
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-22-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for an aboveground petroleum storage tank (APST) inspection. The facility has approximately 6500 gallon of Petroleum storage in 55 gallon containers and totes. SPCC plan was available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-22-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. Consent to inspect and take photos at the facility was provided by Miles Arnold. The facility has a pair of 270 gallon totes of waste coolant and oil and one of the totes was missing a hazardous waste label and the other was missing the accumulation start date (see violation). A bin of waste oily rags and absorbent was also observed with a hazardous waste

COOLANT MANAGEMENT SERVICES (Continued) **S123505037**

label (see violation). Mr. Arnold posted a completed hazardous waste label on the tote and bin. He also updated the accumulation start date on the other tote. Therefore the violations W010 and W013 were abated today. Municipal dumpster area does not contain any hazardous waste. The perimeter of the facility was also inspected; no signs of releases were noted. Emergency Response Informational Sticker was complete. Hazardous waste containers were properly covered. Reviewed manifests, bills of lading and consolidated manifests for all hazardous waste For [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-13-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Cheryl Cunningham, Owner. Walked throughout the facility. Observed hazardous waste storage areas. Manifests were available and reviewed. Employees are reported to be trained. Emergency plan is posted in front office. No hazardous waste or universal waste observed in the dumpster/enclosure area.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-13-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for routine hazardous materials and business emergency plan inspection. The inspection was conducted with Cheryl Cunningham, Owner. Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - Metal Working Fluid (110 gallons) - CNC Cutting Fluid (3,150 gallons) - CNC Coolant Waste (275 gallons) - Ecomate FN (825 gallons) - Propane (56 gallons) Facility has submitted to CERS. Violation I463 has been corrected. The facility is responsible for identifying all hazardous materials, to include hazardous wastes, which are above disclosure thresholds of 55 gallons for liquids, 500 pounds for solids, & 200 cubic feet for gases. If there is a change in the type or amount of chemicals that are maintained on site, please submit revised documents (electronically) within 30 days of the change. Hazardous Materials documents [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-13-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Aboveground Petroleum Storage Act (APSA) inspection. Hazardous Materials (HM) and Hazardous Waste (HW) inspections also conducted on this date. Consent to enter and inspect

COOLANT MANAGEMENT SERVICES (Continued) **S123505037**

granted by Cheryl Cunningham, Owner. The following petroleum storage was observed on site and is regulated under APSA: - CNC Metal Working Fluid (110 gallons) - CNC Cutting Fluid (3,150 gallons) - CNC Coolant Waste (275 gallons) Facility is regulated under Tier I (1,320 gal - 9,999 gal). Spill kits are available on site. This inspection report will be sent to cheryl@coolantmanagement.com

Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-02-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Annual safety training records covering the Hazardous Materials Business Plan have been received on 9/1/2020 for this facility. Violation I239 has been corrected. Please continue to conduct annual safety training with employees and ensure records are available for a minimum of 3 years per HSC 6.95 25505(a)(4).
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-08-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This Agency has received the following documentation from this facility: - SPCC Plan - Annual APSA/SPCC training records - Spill Prevention Briefing records The following violations have been corrected: - I025: SPCC plan has been prepared that meets all applicable requirements. - I009: Training provided for op/maint of equip, discharge procedures, laws/regs, general fac ops, and SPCC. - I039: Spill prevention briefings are conducted annually. There are no remaining outstanding violations for this facility. REMINDER: Please continue to conduct annual APSA training and spill prevention briefings with applicable employees, maintain training records for a minimum of 3 years, and re-submit your APSA disclosure to this Agency annually by January 1st at http://cers.calepa.ca.gov/.
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-29-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Re reviewed HMBEP in E-submit. Rejected: Please make the following corrections: 1) Check the "hazardous waste" page on the business activities page. 2) The Business emergency plan (BEP) is only partially complete. Please fill it in completely. NOTE** Per Mr. Arnold, the ~ 6,000 gallons of water soluble oil is "non hazardous" and does not need to be declared on the HMBEP. An on site evaluation will be conducted at a later date for verification. The facility is subject to SPCC. The map is accepted. The fire codes have been corrected. Please re submit via E-submit for re evaluation.
Eval Division: Orange County Environmental Health

COOLANT MANAGEMENT SERVICES (Continued) **S123505037**

Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 21620
Facility Name: Coolant Management Services
Env Int Type Code: HWG
Program ID: 10448128
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.801850
Longitude: -118.038280

Affiliation:
Affiliation Type Desc: Parent Corporation
Entity Name: Coolant Management Services
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: cheryl cunningham
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Cheryl Cunningham
Entity Title: President
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Coolant Management Services
Entity Title: Not reported
Affiliation Address: 11052 Via El Mercado
Affiliation City: Los Alamitos
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90720
Affiliation Phone: (562) 795-0470

Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health

COOLANT MANAGEMENT SERVICES (Continued) **S123505037**

Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406
Affiliation Type Desc:	Environmental Contact
Entity Name:	Joey Bragole
Entity Title:	Not reported
Affiliation Address:	11052 Via El Mercado
Affiliation City:	Los Alamitos
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90720
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	11052 Via El Mercado
Affiliation City:	Los Alamitos
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90720
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Cheryl Cunningham
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 319-4207
Affiliation Type Desc:	Property Owner
Entity Name:	Patrick Cunningham
Entity Title:	Not reported
Affiliation Address:	1640 Monrovia Avenue
Affiliation City:	Costa Mesa
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92627
Affiliation Phone:	(714) 315-1789

X99 **AST** **A100336674**
SW **11052 VIA EL MERCADO** **N/A**
1/8-1/4 **LOS ALAMITOS, CA**
0.244 mi.
1288 ft. **Site 2 of 4 in cluster X**

Relative: **Lower**
Actual: **33 ft.**

AST:

Name:	Not reported
Address:	11052 VIA EL MERCADO
City/Zip:	LOS ALAMITOS,
Certified Unified Program Agencies:	Orange
Owner:	COOLANT MANAGEMENT SERVICES
Total Gallons:	1,320
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

X100 **COOLANT MANAGEMENT SERVICES CO INC** **RCRA NonGen / NLR** **1024801384**
SW **11052 VIA EL MERCADO** **CAL000229936**
1/8-1/4 **LOS ALAMITOS, CA 90720**
0.244 mi.
1288 ft. **Site 3 of 4 in cluster X**

Relative: **Lower**
Actual: **33 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2020-04-15 00:00:00.0
Handler Name:	COOLANT MANAGEMENT SERVICES CO INC
Handler Address:	11052 VIA EL MERCADO
Handler City,State,Zip:	LOS ALAMITOS, CA 90720
EPA ID:	CAL000229936
Contact Name:	JOEY BRAZOLE
Contact Address:	VIA EL MERCADO
Contact City,State,Zip:	LOS ALAMITOS, CA 90720
Contact Telephone:	714-673-0785
Contact Fax:	562-795-0475
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified

COOLANT MANAGEMENT SERVICES CO INC (Continued) **1024801384**

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:	VIA EL MERCADO
Mailing City,State,Zip:	LOS ALAMITOS, CA 90720
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	COOLANT MANAGEMENT SERVICES CO INC
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:	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

COOLANT MANAGEMENT SERVICES CO INC (Continued) **1024801384**

Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-04-17 16:23:48.0
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:	MILES ARNOLD
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	11052 VIA EL MERCADO
Owner/Operator City,State,Zip:	LOS ALAMITOS, CA 90720-2812
Owner/Operator Telephone:	562-795-0470
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MILES ARNOLD
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	11052 VIA EL MERCADO
Owner/Operator City,State,Zip:	LOS ALAMITOS, CA 90720
Owner/Operator Telephone:	562-795-0470
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	COOLANT MANAGEMENT SERVICES CO INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	11052 VIA EL MERCADO
Owner/Operator City,State,Zip:	LOS ALAMITOS, CA 90720
Owner/Operator Telephone:	562-795-0470
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	562-795-0475
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	COOLANT MANAGEMENT SERVICES CO INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	11052 VIA EL MERCADO
Owner/Operator City,State,Zip:	LOS ALAMITOS, CA 90720
Owner/Operator Telephone:	562-795-0470

COOLANT MANAGEMENT SERVICES CO INC (Continued) **1024801384**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: 562-795-0475
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2020-04-15 00:00:00.0
Handler Name: COOLANT MANAGEMENT SERVICES CO 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: No
Electronic Manifest Broker: No

Receive Date: 2001-11-01 00:00:00.0
Handler Name: COOLANT MANAGEMENT SERVICES CO 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2020-04-15 00:00:00.0
Handler Name: COOLANT MANAGEMENT SERVICES CO 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: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 42184
NAICS Description: INDUSTRIAL SUPPLIES WHOLESALERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

X101 **COOLANT MANAGEMENT SERVICES** **AST** **A100418996**
SW **11052 VIA EL MERCADO** **N/A**
1/8-1/4 **LOS ALAMITOS, CA 90720**
0.244 mi.
1288 ft. **Site 4 of 4 in cluster X**

Relative: **Lower**
Actual: **33 ft.**

AST:

Name:	COOLANT MANAGEMENT SERVICES
Address:	11052 VIA EL MERCADO
City/Zip:	LOS ALAMITOS,90720
Certified Unified Program Agencies:	Not reported
Owner:	Same as above
Total Gallons:	Not reported
CERSID:	10448128
Facility ID:	Not reported
Business Name:	Coolant Management Services
Phone:	562-795-0470
Fax:	562-795-0475
Mailing Address:	11052 Via El Mercado
Mailing Address City:	Los Alamitos
Mailing Address State:	Ca
Mailing Address Zip Code:	90720
Operator Name:	Miles Arnold
Operator Phone:	714-323-5103
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	United States
Property Owner Name:	Same as above
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	United States
EPAID:	calooo229936

Y102 **H&S ENERGY PRODUCTS, LLC #2001** **UST** **U003433053**
NE **5999 CERRITOS AVE** **N/A**
1/8-1/4 **CYPRESS, CA 90630**
0.246 mi.
1298 ft. **Site 1 of 8 in cluster Y**

Relative: **Higher**
Actual: **42 ft.**

ORANGE CO. UST:

Name:	H&S ENERGY PRODUCTS LLC #2001
Address:	5999 CERRITOS AVE
City,State,Zip:	CYPRESS, CA 90630
Facility ID:	FA0024586
Notes:	Not reported

UST:

Name:	H&S ENERGY PRODUCTS, LLC #2001
Address:	5999 CERRITOS AVE
City,State,Zip:	CYPRESS, CA 90630
Facility ID:	FA0024586
Permitting Agency:	Orange County Environmental Health
Latitude:	33.81025
Longitude:	-118.02868

H&S ENERGY PRODUCTS, LLC #2001 (Continued) **U003433053**

Name:	UNOCAL #5176
Address:	5999 CERRITOS AVE
City,State,Zip:	CYPRESS, CA 90630
Facility ID:	4269
Permitting Agency:	ORANGE COUNTY
Latitude:	33.811595
Longitude:	-118.027328

Y103 **H & S ENGERY PRODUCTS LLC 2001** **RCRA NonGen / NLR** **1024804366**
NE **5999 CERRITOS AVE** **CAL000257805**
1/8-1/4 **CYPRESS, CA 90630**
0.246 mi.
1298 ft. **Site 2 of 8 in cluster Y**

Relative: **Higher**
Actual: **42 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2020-09-10 00:00:00.0
Handler Name:	H & S ENGERY PRODUCTS LLC 2001
Handler Address:	5999 CERRITOS AVE
Handler City,State,Zip:	CYPRESS, CA 90630-0000
EPA ID:	CAL000257805
Contact Name:	VICTOR HASSAN
Contact Address:	2860 N SANTIAGO BLVD
Contact City,State,Zip:	ORANGE, CA 92867
Contact Telephone:	714-761-5426
Contact Fax:	714-252-5394
Contact Email:	A.HASSAN@HASOIL.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:	2860 N SANTIAGO BLVD
Mailing City,State,Zip:	ORANGE, CA 92867-0000
Owner Name:	H&S ENERGY LLC
Owner Type:	Other
Operator Name:	H&S ENERGY LLC
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	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

H & S ENGERY PRODUCTS LLC 2001 (Continued) **1024804366**

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:	2020-09-25 11:56:18.0
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:	H&S ENERGY LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2860 N SANTIAGO BLVD
Owner/Operator City,State,Zip:	ORANGE, CA 92867-0000
Owner/Operator Telephone:	714-761-5426
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	VICTOR HASSAN
Legal Status:	Other

H & S ENGERY PRODUCTS LLC 2001 (Continued) **1024804366**

Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2860 N SANTIAGO BLVD
Owner/Operator City,State,Zip:	ORANGE, CA 92867
Owner/Operator Telephone:	714-761-5426
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	H&S ENERGY LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2860 N SANTIAGO BLVD
Owner/Operator City,State,Zip:	ORANGE, CA 92867-0000
Owner/Operator Telephone:	714-761-5426
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	H&S ENERGY LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2860 N SANTIAGO BLVD
Owner/Operator City,State,Zip:	ORANGE, CA 92867-0000
Owner/Operator Telephone:	714-761-5426
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2002-08-16 00:00:00.0
Handler Name: H & S 1	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	2020-09-10 00:00:00.0
Handler Name: H & S ENGERY PRODUCTS LLC 2001	
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

H & S ENGERY PRODUCTS LLC 2001 (Continued) **1024804366**

Non Storage Recycler Activity: No
Electronic Manifest Broker: No

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

Y104 **UNOCAL #5176** **SWEEPS UST** **U003942671**
NE **5999 CERRITOS AVE** **N/A**
1/8-1/4 **CYPRESS, CA 90630**
0.246 mi.
1298 ft. **Site 3 of 8 in cluster Y**

Relative: **Higher**
Actual: **42 ft.**

SWEEPS UST:
Name: UNOCAL #5176
Address: 5999 CERRITOS AVE
City: CYPRESS
Status: Active
Comp Number: 4269
Number: 9
Board Of Equalization: 44-001057
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-004269-000001
Tank Status: A
Capacity: 500
Active Date: Not reported
Tank Use: PETROLEUM
STG: P
Content: Not reported
Number Of Tanks: 3

Name: UNOCAL #5176
Address: 5999 CERRITOS AVE
City: CYPRESS
Status: Active
Comp Number: 4269
Number: 9
Board Of Equalization: 44-001057
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-004269-000003
Tank Status: A
Capacity: 12000
Active Date: Not reported

UNOCAL #5176 (Continued) **U003942671**

Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: UNOCAL #5176
Address: 5999 CERRITOS AVE
City: CYPRESS
Status: Active
Comp Number: 4269
Number: 9
Board Of Equalization: 44-001057
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-004269-000004
Tank Status: A
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Y105 **UNOCAL** **LUST** **S101299493**
NE **5999 CERRITOS** **Cortese** **N/A**
1/8-1/4 **CYPRESS, CA 90630** **HIST CORTESE**
0.246 mi. **CERS**
1298 ft. **Site 4 of 8 in cluster Y**

Relative:
Higher

Actual:
42 ft.

ORANGE CO. LUST:
Name: UNOCAL
Address: 5999 CERRITOS AVE
City,State,Zip: CYPRESS, CA 90630
Region: ORANGE
Facility Id: 86UT035
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 08/27/1990
Record ID: RO0001609

Name: UNOCAL # 5176
Address: 5999 CERRITOS AVE
City,State,Zip: CYPRESS, CA 90630
Region: ORANGE
Facility Id: 91UT043
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 08/02/1995
Record ID: RO0001930

LUST:
Name: UNOCAL
Address: 5999 CERRITOS
City,State,Zip: CYPRESS, CA 90630
Lead Agency: ORANGE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605999467

UNOCAL (Continued) **S101299493**

Global Id: T0605999467
Latitude: 33.810231
Longitude: -118.028676
Status: Completed - Case Closed
Status Date: 08/27/1990
Case Worker: TE
RB Case Number: Not reported
Local Agency: ORANGE COUNTY LOP
File Location: Local Agency
Local Case Number: 86UT035
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0605999467
Contact Type: Local Agency Caseworker
Contact Name: TAMARA ESCOBEDO
Organization Name: ORANGE COUNTY LOP
Address: 1241 EAST DYER ROAD SUITE 120
City: SANTA ANA
Email: tescobedo@ochca.com
Phone Number: 7144336251

LUST:
Global Id: T0605999467
Action Type: ENFORCEMENT
Date: 08/27/1990
Action: Closure/No Further Action Letter

Global Id: T0605999467
Action Type: Other
Date: 12/10/1985
Action: Leak Discovery

Global Id: T0605999467
Action Type: Other
Date: 12/10/1985
Action: Leak Reported

LUST:
Global Id: T0605999467
Status: Open - Case Begin Date
Status Date: 12/10/1985

Global Id: T0605999467
Status: Completed - Case Closed
Status Date: 08/27/1990

Name: UNOCAL # 5176
Address: 5999 CERRITOS
City,State,Zip: CYPRESS, CA 90630
Lead Agency: ORANGE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900646
Global Id: T0605900646

UNOCAL (Continued) **S101299493**

Latitude:	33.809925
Longitude:	-118.0282542
Status:	Completed - Case Closed
Status Date:	08/02/1995
Case Worker:	TE
RB Case Number:	083000819T
Local Agency:	ORANGE COUNTY LOP
File Location:	Local Agency
Local Case Number:	91UT043
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0605900646
Contact Type:	Local Agency Caseworker
Contact Name:	TAMARA ESCOBEDO
Organization Name:	ORANGE COUNTY LOP
Address:	1241 EAST DYER ROAD SUITE 120
City:	SANTA ANA
Email:	tescobedo@ochca.com
Phone Number:	7144336251

LUST:

Global Id:	T0605900646
Action Type:	Other
Date:	10/23/1990
Action:	Leak Discovery
Global Id:	T0605900646
Action Type:	Other
Date:	10/23/1990
Action:	Leak Reported
Global Id:	T0605900646
Action Type:	REMEDIATION
Date:	08/15/1994
Action:	Excavation

LUST:

Global Id:	T0605900646
Status:	Open - Case Begin Date
Status Date:	10/23/1990
Global Id:	T0605900646
Status:	Completed - Case Closed
Status Date:	08/02/1995

LUST REG 8:

Name:	UNOCAL # 5176
Address:	5999 CERRITOS
City:	CYPRESS
Region:	8
County:	Orange
Regional Board:	Santa Ana Region

UNOCAL (Continued) **S101299493**

Facility Status:	Case Closed
Case Number:	083000819T
Local Case Num:	91UT043
Case Type:	Other ground water affected
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Close Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605900646
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	10/23/1990
Enforcement Date:	Not reported
Close Date:	8/2/1995
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.8100046
Longitude:	-118.0282998
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:	AR
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

Name:	UNOCAL
Address:	5999 CERRITOS
City:	CYPRESS

UNOCAL (Continued) **S101299493**

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	Not reported
Local Case Num:	86UT035
Case Type:	Other ground water affected
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Close Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605999467
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	12/10/1985
Enforcement Date:	Not reported
Close Date:	8/27/1990
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	Not reported
Longitude:	Not reported
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:	AR
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

UNOCAL (Continued) **S101299493**

CORTESE:

Name:	UNOCAL
Address:	5999 CERRITOS
City,State,Zip:	CYPRESS, CA 90630
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0605999467
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

Name:	UNOCAL # 5176
Address:	5999 CERRITOS
City,State,Zip:	CYPRESS, CA 90630
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0605900646
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:	UNOCAL #5176
edr_fadd1:	5999 CERRITOS
City,State,Zip:	CYPRESS, CA 90630
Region:	CORTESE

UNOCAL (Continued) **S101299493**

Facility County Code: 30
Reg By: LTNKA
Reg Id: 083000819T

edr_fname: UNOCAL #5176
edr_fadd1: 5999 CERRITOS
City,State,Zip: CYPRESS, CA 90630
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083002920T

CERS:
Name: UNOCAL # 5176
Address: 5999 CERRITOS
City,State,Zip: CYPRESS, CA 90630
Site ID: 207141
CERS ID: T0605900646
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: TAMARA ESCOBEDO - ORANGE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1241 EAST DYER ROAD SUITE 120
Affiliation City: SANTA ANA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7144336251

Name: UNOCAL
Address: 5999 CERRITOS
City,State,Zip: CYPRESS, CA 90630
Site ID: 199948
CERS ID: T0605999467
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: TAMARA ESCOBEDO - ORANGE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1241 EAST DYER ROAD SUITE 120
Affiliation City: SANTA ANA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7144336251

Y106
NE
1/8-1/4
0.246 mi.
1298 ft.

CHEVRON # 205987
5999 CERRITOS
CYPRESS, CA 90630

Site 5 of 8 in cluster Y

UST **U004316568**
N/A

Relative:
Higher

Actual:
42 ft.

ORANGE CO. UST:
Name: CHEVRON # 205987
Address: 5999 CERRITOS
City,State,Zip: CYPRESS 90630
Facility ID: FA24586
Notes: Not reported

Y107
NE
1/8-1/4
0.246 mi.
1298 ft.

UNOCAL #5176
5999 CERRITOS AVE
CYPRESS, CA 90630

Site 6 of 8 in cluster Y

CERS HAZ WASTE **S101588994**
CA FID UST **N/A**
CERS TANKS
HAZNET
CERS
HWTS

Relative:
Higher

Actual:
42 ft.

CERS HAZ WASTE:
Name: H&S ENERGY PRODUCTS, LLC #2001
Address: 5999 CERRITOS AVE
City,State,Zip: CYPRESS, CA 90630
Site ID: 121816
CERS ID: 10400917
CERS Description: Hazardous Waste Generator

CA FID UST:
Facility ID: 30000773
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7145278301
Mail To: Not reported
Mailing Address: 911 WILSHIRE BLVD STE 10
Mailing Address 2: Not reported
Mailing City,St,Zip: CYPRESS 90630
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

CERS TANKS:
Name: H&S ENERGY PRODUCTS, LLC #2001
Address: 5999 CERRITOS AVE
City,State,Zip: CYPRESS, CA 90630
Site ID: 121816
CERS ID: 10400917
CERS Description: Underground Storage Tank

HAZNET:
Name: H & S 1
Address: 5999 CERRITOS AVE

UNOCAL #5176 (Continued) **S101588994**

Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 928670000
Contact:	VICTOR HASSAN
Telephone:	7147615426
Mailing Name:	Not reported
Mailing Address:	2860 N SANTIAGO BLVD
Year:	2019
Gepaid:	CAL000257805
TSD EPA ID:	CAD028409019
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:	0.03750
Year:	2019
Gepaid:	CAL000257805
TSD EPA ID:	CAD028409019
CA Waste Code:	241 - Tank bottom waste
Disposal Method:	H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Tons:	0.12510
Year:	2018
Gepaid:	CAL000257805
TSD EPA ID:	CAD028409019
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:	0.03750
Year:	2017
Gepaid:	CAL000257805
TSD EPA ID:	CAT080013352
CA Waste Code:	241 - Tank bottom waste
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.22935
Year:	2017
Gepaid:	CAL000257805
TSD EPA ID:	CAD028409019
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:	0.025
Year:	2015
Gepaid:	CAL000257805
TSD EPA ID:	CAD028409019
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:	0.125
Year:	2015
Gepaid:	CAL000257805

UNOCAL #5176 (Continued) **S101588994**

TSD EPA ID:	CAD028409019
CA Waste Code:	241 - Tank bottom waste
Disposal Method:	H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Tons:	0.18765

Additional Info:

Year:	2015
Gen EPA ID:	CAL000257805
Shipment Date:	20150923
Creation Date:	11/17/2015 22:15:24
Receipt Date:	20150924
Manifest ID:	014287259JJK
Trans EPA ID:	CAR000172874
Trans Name:	ABLE ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	241 - Tank bottom waste 251 Still bottoms with halogenated organics
RCRA Code:	Not reported
Meth Code:	H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Quantity Tons:	0.06255
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150923
Creation Date:	1/11/2016 22:15:53
Receipt Date:	20150924
Manifest ID:	014287264JJK
Trans EPA ID:	CAR000172874
Trans Name:	ABLE ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

UNOCAL #5176 (Continued) **S101588994**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150407
Creation Date:	7/8/2015 22:15:08
Receipt Date:	20150413
Manifest ID:	013559029JJK
Trans EPA ID:	CAR000172874
Trans Name:	ABLE ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150407
Creation Date:	8/21/2015 22:15:28
Receipt Date:	20150413
Manifest ID:	013559036JJK
Trans EPA ID:	CAR000172874
Trans Name:	ABLE ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	241 - Tank bottom waste 251 Still bottoms with halogenated organics
RCRA Code:	Not reported
Meth Code:	H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2017
Gen EPA ID:	CAL000257805

UNOCAL #5176 (Continued) **S101588994**

Shipment Date:	20170907
Creation Date:	5/20/2018 18:31:29
Receipt Date:	20170908
Manifest ID:	016590987JJK
Trans EPA ID:	CAR000172874
Trans Name:	ABLE ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170907
Creation Date:	5/30/2018 18:32:32
Receipt Date:	20170908
Manifest ID:	017651412JJK
Trans EPA ID:	CAR000172874
Trans Name:	ABLE ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	241 - Tank bottom waste 251 Still bottoms with halogenated organics
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	H&S ENERGY PRODUCTS, LLC #2001
Address:	5999 CERRITOS AVE
City,State,Zip:	CYPRESS, CA 90630
Site ID:	121816
CERS ID:	10400917
CERS Description:	Chemical Storage Facilities

UNOCAL #5176 (Continued) **S101588994**

Violations:

Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	10-07-2015
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 09/07/2016. The spill bucket in the 87 fill bucket failed and must be repaired and retested. Please submit the results immediately after the spill bucket has been repaired and retested.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	09-08-2014
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 11/07/2014. The HMBEP facility map needs to include the following: - Site orientation (North, South, etc.), - Storm Drains and Sewers, - Access and Exit Points, - Emergency Shutoffs (Electrical panel, gas, and water shut-off), - Evacuation Staging Areas, - Location of each hazardous material storage area, - Location of emergency response equipment (fire suppression, absorbent), - Location of nearest fire hydrant, fire pumps, risers, or fire department connections.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	10-07-2015
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 10/07/2015. The monitoring certification must be conducted within 365 days from the last monitoring certification. The previous monitoring certification was conducted on 9/8/2014 and is pass due. This violation was corrected on this date.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	09-17-2019
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

UNOCAL #5176 (Continued) **S101588994**

	hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 10/07/2019. OBSERVATION: Most recent training records indicate that training was conducted on 9/10/18. Training must be conducted annually. CORRECTIVE ACTION: Submit current training records to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	10-07-2015
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 10/07/2015. The spill buckets must be tested within 365 days from the previous testing. The spill buckets were tested on 9/8/2014 and is pass due. This violation was corrected on this date.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	09-17-2019
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 10/07/2019. OBSERVATION: Overfill Prevention Equipment Inspection done on 2/11/19 is not documented on DO reports from March 2019 - September 2019 DO reports. CORRECTIVE ACTION: Document overfill inspection report on most recent DO report (October 2019) and submit document to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	09-08-2014
Citation:	23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter

UNOCAL #5176 (Continued) **S101588994**

	16, Section(s) 2715(f)
Violation Description:	Failure to comply with one or more of the following: provide training to facility employee(s) responsible for proper operation and maintenance every 12 months and/or train new employee(s) who are responsible for proper operation and maintenance within 30-days of hire and/or to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system.
Violation Notes:	Returned to compliance on 11/07/2014. Employees must be trained on proper operation and maintenance of the UST system on an annual basis. The last training was conducted on 7/12/2013. In order to abate this violation, send a copy of the training documentation with employee signature and date to mescobedo@ochca.com
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	11-24-2014
Citation:	HSC 6.7 25292(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25292(e)
Violation Description:	Failure to maintain secondary containment, as evidenced by failure of secondary containment testing.
Violation Notes:	Returned to compliance on 01/23/2015. During secondary testing, the following failed: - 91 secondary product line; - UDC 5-6; - UDC 7-8; - UDC 9-10; - UDC 11-12; Within 30-days of this report, submit System Modification Plans detailing the proposed repairs. Within 90 days of this report, results for the secondary retest must be submitted to this agency.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	09-07-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 09/07/2017. The waste gasoline solids, absorbent and hoses drum hazardous waste label accumulation start date was illegible. The waste solids and the waste liquids were disposed of and a copy of the disposal manifest was received later this day, violation I400 is corrected.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	09-08-2014
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter

UNOCAL #5176 (Continued) **S101588994**

	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 11/07/2014. The chemical disclosure page needs to be corrected in CERS. Please correct the following: - Gasoline-list as pure liquid. Also, max daily amount should be largest UST (20,000 gallon); - Diesel-list as pure liquid; - CO2. Add this chemical to your disclosure. Largest container is 405 cubic feet and max daily is 1,620 cubic feet; - Waste water. Add this chemical to your disclosure (max daily is 55 gallons).
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	09-08-2014
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to maintain on site an approved monitoring plan.
Violation Notes:	Returned to compliance on 11/07/2014. The current monitoring plan has been completed incorrectly. The monitoring plan states that you conduct monthly statistical inventory reconciliation (SIR) and annual tank and piping integrity testing. These are not conducted so please correct the forms immediately. Update the correct forms in CERS and put a revised copy in your UST binder.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	09-08-2014
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 09/08/2014. All containers storing hazardous waste must be labeled with the proper information. Labels were provided and the drums were labeled. This violation was corrected during this inspection.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	09-17-2020
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 11/20/2020. OBSERVATION: Monitoring plan for the diesel tank requires amendments. CORRECTIVE ACTION: Review comments in CERS, revise, and resubmit within 30 days. Notify this

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	Agency once the plan has been placed on site.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	09-08-2014
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to 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 11/07/2014. The emergency response contingency plan is incomplete. Please complete this immediately and resubmit this on the CERS database.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	09-06-2018
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 09/06/2018. The float and chain mechanism inside of dispenser 5/6 did not trigger when water was added into the UDC. The chain was readjusted and passed testing. Violation corrected on site.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	09-17-2019
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to retain a copy of the permit to operate at the facility.
Violation Notes:	Returned to compliance on 10/07/2019. OBSERVATION: Permit to Operate on site expired on 6/30/19. Current PTO not available for review. CORRECTIVE ACTION: Request PTO through this Agency and place permit on site within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	09-17-2020
Citation:	23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Description:	Failure of the double-walled pressurized piping to be continuously monitored with a system that activates an audible and visual alarm or stops flow at the dispenser when a leak is detected.

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Violation Notes:	Returned to compliance on 09/17/2020. OBSERVATION: One of two, float and chain mechanisms in UDC 11/12 initially failed testing. CORRECTIVE ACTION: Float and chain was cleaned/adjusted, and retested with passing results. Violation corrected
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	09-08-2014
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 11/07/2014. A current certificate of financial responsibility (CFR) was not available during this inspection. Please send an updated CFR to mescobedo@ochca.com and upload the CFR to the CERS database.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	09-07-2016
Citation:	23 CCR 16 2631(g), 2632(c)(2)(A) & (B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2631(g), 2632(c)(2)(A) & (B)
Violation Description:	Failure of the double-walled interstitial space of the tank to be continuously monitored with an audible and visual alarm.
Violation Notes:	Returned to compliance on 09/07/2016. The diesel turbine sump interstitial VR-304 sensor failed to shut down the turbine during the annual monitoring certification. Sensor was replaced and retested during the annual certification. Sensor passed. Violation corrected during inspection.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001
Violation Date:	09-17-2019
Citation:	23 CCR 16 2712(b)(6) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(6)
Violation Description:	Failure to maintain records of repairs and upgrades on site, or off site if approved by the UPA, for the life of the UST.
Violation Notes:	Returned to compliance on 10/07/2019. OBSERVATION: Overfill Prevention Equipment Inspection report dated 2/11/19 not available on site for review. CORRECTIVE ACTION: Place test results on site within 30 days and notify this Agency when this has been completed.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	121816
Site Name:	H&S Energy Products, LLC #2001

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Violation Date: 09-17-2019
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 G Underground Storage Tank Statement of Understanding and Compliance Form.G
Violation Notes: Returned to compliance on 10/07/2019. OBSERVATION: UST Statement of Understanding and Compliance' form must be submitted to CERS. CORRECTIVE ACTION: Submit the form to CERS within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-13-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On site for SB989 testing of UDC 7/8 and 9/10.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-22-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: January 22, 2015 - Arrived at the facility at 1:30 pm. Met with David N. Lopez who conducted the retest of the secondary piping on the 91 product line from UDC1-2 to the 91 UST. ICC certifications were verified. The secondary piping was pressurized to 5.1 PSI on the 91 product line from the 1-2 UDC to the 91 UST. Secondary piping was pressurized for approximately 60 minutes. I also directed the location for (2) soil samples to be collected beneath the piping repairs made. Per Mr. Lopez, UDCs 5-6, 7-8, 9-10, and 11-12 will be repaired on a future date.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-29-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UDC retest notification
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-30-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: 1/30/2015 - Onsite to witness the SB989 retest on UDCs 5-12. Met with Steven Loera of CLean Air Testing. Mr. Loera conducted the retest. His ICC and Incon certifications were verified. The UDCs were tested using the Franklin INCON unit. (2) 15-minute tests were performed. UDC 7-8 failed (2) consecutive tests. Water was removed and the UDC was

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inspected. After inspection, water was replaced and the UDC was retested. (2) consecutive passing 15-minute tests were conducted. All failures during the SB989 test on 10/28/2014 have been corrected and tested. Once the final test results have been received, System Modification Permit SR0125065 will be closed.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-01-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following document was received by this Agency: - Secondary containment retest results dated 1/13/21 The following components were repaired and tested with passing results: - UDC 7/8 - UDC 9/10 The following violation has been corrected: - I382: Failure to maintain secondary containment The facility has no outstanding violations.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS HMBEP Denied.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-19-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: 2/19/2015 - Received the supplemental SB989 report for the repairs conducted on UDCs 5-6, 7-8, 9-10, and 11-12. At this time, all necessary documents have been received and this permit will be closed.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-19-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Electronic UST submission must include corrosion protection. Please correct the tank pages and resubmit.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-19-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On this date, received the supplemental SB989 testing report for the

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repairs that were made to the UDC penetrations. Clean Air Testing performed the SB989 testing on UDCs 5-6. 7-8, 9-10, and 11-12. An INCON-TS-STS was used to perform the hydrostatic test. All UDCs passed. Permit # SR0125025 will be closed.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-05-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST Plot plan and certification of financial responsibility were denied.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-24-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: A review of the CERS submission was conducted today and the submittal was accepted. UST permitting documents accepted in CERS CFR is dated 3/22/17 DO: Karen Mckabney and Benjamin Tehuitzil
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-28-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and accepted UST submittal. Facility has updated the DO statement. DO = Karen McKabney.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-03-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS: HMBEP Accepted
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-19-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

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Eval General Type:	Other/Unknown
Eval Date:	08-20-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Change of ownership to H&S Energy, LLC. New entity with Hassan & Sons, Inc. as 100% owner. Per Angela Cruz on July 15, 2015. New ownership date is 7-31-2015. New facility form completed for processing.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	08-20-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Change of ownership to H&S Energy, LLC. New entity with Hassan & Sons, Inc. as 100% owner. Per Angela Cruz on July 15, 2015. New ownership date is 7-31-2015. New facility form completed for processing.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	08-20-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Change of ownership to H&S Energy, LLC. New entity with Hassan & Sons, Inc. as 100% owner. Per Angela Cruz on July 15, 2015. New ownership date is 7-31-2015. New facility form completed for processing.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	08-25-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	09-02-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-06-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Underground Storage Tank inspection and witness annual monitor system certification and spill bucket testing.

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Testing was conducted by Dave Lopez of Clean Air Testing, Inc. ICC, Veeder Root and VMI certifications were verified. Submit test results to this Agency within 30 days. The facility has three double-walled tanks (87-20k, 91-15k, Diesel-10k), monitored by a Veeder Root TLS350 Simplicity. The diesel tank is monitored under constant vacuum. The monitor is operational for audible and visual alarms, panel display reads G All functions normalG . The tanks have double-walled pressurized piping. Positive shutdown of turbines were verified when their corresponding VR-208 sensors and 304 sensors for the Diesel tank, in both piping and fill sumps, were submerged in liquid. Fail safe and sensor out triggered positive shutdown of turbines. For the 87 and 91 tanks, annulars are monitored by VR 409 sensors, which shutdown corresponding turbines [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-07-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENT: On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Aroub Khadra, Store Manager. Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed and properly labeled. Manifests were available and reviewed. Employees are reported to be trained. Emergency plan is available on site. No hazardous waste or universal waste observed in the dumpster/enclosure area. No hazardous waste violations were observed this date.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-07-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENT: On site for routine hazardous materials and business emergency plan inspection. Consent to enter and inspect was given by Aroub Khadra, Store Manager. Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - Diesel Fuel (10,000 gallons) - Gasoline (35,000 gallons) - Carbon Dioxide (1,269 cubic feet) - Fuel & Water (55 gallons) An Emergency Response Plan was available for review on site. Employee training records are current and available for review. Site map was complete and accurate. Facility has submitted the following documents via CERS: - Business Activities - Owner/Operator Information - Hazardous Materials Inventory - Site Map - Emergency Response Plan - Employee Training Plan The facility is responsible for identifying all hazardous materials, to include hazardous wastes, which [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-07-2016

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Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENT: On site for routine UST inspection, monitoring system certification, and spill bucket testing. Consent to inspect was given by Aroub Khadra, Store Manager. Testing of monitoring equipment was performed by David Lopez of Clean Air Testing, ICC, VPM, and Veeder-Root certifications were current. This inspector did not observe all testing conducted by the technician. The facility has three double-walled tanks (87, 91, and D) monitored by a Veeder Root TLS350 system. The diesel sumps are double walled and contain brine in the interstitial space. The secondary containment is monitored under constant vacuum. The monitor is operational for audible and visual alarms. Alarm history and set-up tape was reviewed during the inspection. Panel reads G all functions normalG . All sensors were already moved by the testers at the time of the inspection (due to testerG s scheduling miscommunication), however, sensors were located at the lowest point of the sump he [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-07-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine UST inspection, monitoring system certification, and spill bucket testing. Consent to inspect was given by Muhumoud Taraifi, Cashier. Testing of monitoring equipment was performed by David Lopez of Clean Air Testing, ICC, VPM, and Veeder-Root certifications were current. The monitor is operational for audible and visual alarms. Panel reads G all functions normalG and last certified on 9-7-16. The facility has three double-walled tanks (87, 91, and Diesel) monitored by a Veeder Root TLS-350 system. Fail Safe and Sensor Out was tested and positive shutdown was verified. The diesel tank is continuously monitored using a VPH system. The diesel sumps are double walled and contain brine in the interstitial space. The diesel secondary containment piping and the Tank annular is monitored under constant vacuum. All diesel Vacuum sensors, and VR 208 sensors passed testing. The 87 and 91 tanks have VR 208 sensors in the fill and STP sumps. Dispensers 1/2 and [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-07-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Consent to inspect was provided by Mahmoud Traifi. A walk through of the facility was conducted. The following Hazardous Substances were observed being stored at above the reporting threshold: HM - Carbon Dioxide -Diesel (note please update the volume from 10,000 gallons to 12,000 gallons) - Gasoline HW -Waste Fuel and water This facility is responsible for identifying all hazardous materials and hazardous wastes, which are above the following disclosure thresholds: Solids > 500 pounds. Liquids > or = 55 gallons

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Gas > or = 200 cubic feet Site map is available for review. Employees received training. Ensure the HMBEP is resubmitted by March 1st every year.

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-07-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. Consent to inspect and take photos at the facility was provided by the Mahmoud Traifi. The waste gasoline solids, absorbent and hoses drum hazardous waste label accumulation start date was illegible (see violation). The waste solids and the waste liquids were disposed of later this day, violation was corrected. Note the accumulation start date on the waste fuel and water was written twice on the container (10-1-17 and 4-17-17), make sure only one accumulation start date is designated. Municipal dumpster does not contain any hazardous waste. The perimeter of the facility was also inspected; no signs of releases were noted. Emergency Response Information was complete. Hazardous waste containers were properly covered. Reviewed manifests, bills of lading and consolidated manifests for all hazardous waste streams. For further information about Hazardous Waste management, please refer to the Orange CUPA [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-08-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Hassan Chevron #205987 5999 Cerritos Ave Cypress, CA 90630 On site to conduct a routine hazardous waste inspection. Met with Victor Hassan of Hassan and Sons, who gave consent to enter and inspect the facility. Hazardous waste observed on site include: - Waste water containing gasoline and waste solids containing gasoline. All containers were properly closed. The drums were not labeled. (see violation I400 above). Labels were provided during this inspection. Hazardous waste manifests were available for review. Perimeter of the facility and the municipal dumpster was inspected. Did not observe any indication of a hazardous waste release or illegal dumping along the perimeter of the facility. The Hazardous Waste Emergency Response information was in the facility.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-08-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Met with Victor Hassan and consent was provided to enter and conduct inspection activities. Hassan & Sons dba Cypress

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Chevron has submitted the HMBEP into the CERS database. Submission has been confirmed and reviewed in CERS and the following need to be corrected. The chemical disclosure section is incorrect based on this inspection (See violation I169 above). Please correct the following: - Gasoline- List as a pure liquid and the largest container should be 20,000 gallons. - Diesel - List as pure liquid. - Add CO2. - Add waste water containing gasoline. The facility map needs to be corrected (see violation I632 above) The business emergency plan needs to be completed (see violation I736 above). Please note that if the facility decides to discontinue any of the above chemicals, proper disposal or removal of chemicals is required and maintenance of disposal [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-08-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to witness annual monitor certification and to conduct a routine UST inspection. Met with Rouba Khadra and Victor Hassan of Hassan and Sons and David Lopez of Clean Air Testing. David Lopez conducted the tank testing, monitor system certification, and spill bucket testing. Mr. Lopez ICC, VPM, and Veeder-Root certifications were observed and verified. The facility contains: - (1) 20,000 gallon double walled UST containing gasoline (regular grade). - (1) 15,000 gallon double walled UST containing gasoline (premium grade). - (1) 10,000 gallon double walled UST containing diesel. All USTs are continuously monitored by a Veeder-Root TLS-350R system. The diesel sumps are double walled and contain brine in the interstitial space. The secondary containment is monitored under constant vacuum. Alarm history and set-up tape was reviewed during this inspection. The monitoring panel read "All Functions Normal". Facility contains: -Uses a flapper valve for [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-08-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Enter updated Storage Tank owner, tank operator, and property owner information into EC Storage Tank Dispatch Center.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-14-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This Agency has received the following documents: - Monitoring Certification test results dated 9/6/18 - Spill Bucket test results dated 9/6/18 All components were tested and passed.

Eval Division: Orange County Environmental Health

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Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-17-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS submittal reviewed. Submittal not accepted. See comment below. Hello, Please update the monitoring plan for the Diesel tank to "yes" for leak alarm trigger automatic pump shut down under piping monitoring. Also, please be advised that the CFR is going to expire 7 days from today and a recertification is needed. Any questions please feel free to contact the district inspection Marco Escobedo at mescobedo@ochca.com Thank you.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct hazardous waste inspection. Walked the interior and exterior areas of the facility. Observed hazardous waste storage area. Contingency Plan and hazardous waste manifests were available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine Hazardous Materials Business Plan (HMBP) inspection. Observed the following hazardous materials on site in reportable quantities (all sizes are approximate): - 20,000 gal UST of 87 Unleaded - 15,000 gal UST of 91 - 10,000 gal UST of Diesel Per California Health & Safety Code Ch. 6.95, businesses that store and handle hazardous materials at or over reportable quantities (55 gal of a liquid, 500 lbs of a solid, 200 cubic ft of a compressed gas) must prepare and implement an HMBP. The HMBP must include the following elements: - Business Activities - Owner/Operator Information - Chemical Inventory - Site Map - Emergency Response Plan/Training Plan The HMBP must be submitted online through the California Environmental Reporting System (CERS) by March 1st of every year. The facility is responsible for identifying all hazardous materials, including hazardous wastes, which are at or above disclosure thresholds. If there is a change in the [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency

UNOCAL #5176 (Continued) **S101588994**

Eval Notes:	On site to witness annual monitoring system certification and to conduct UST inspection. The site has the following tanks monitored via TLS-350 Panel: - 20,000 gal 87 - 15,000 gal 91 - 10,000 gal diesel Piping is double-walled and pressurized. Tanks utilize flapper valves for overfill prevention. Annulars: - 87/91 = VR409 - Diesel = VR100 (Vacuum monitored) Fill/STP: - 87/91 = VR208 - Diesel = VR208 + VR304 (double-walled tank top sumps) UDC: - UDC -+ + -+ = VR208 + VR100 (Vacuum monitored) - UDC -+-11/12 = Bravo Box w/ float and chain LLD: - 87 = VMI LD 2000 - 91 = FE Petro STP MLD - Diesel = VR PLLD Testing was conduct by David Lopez Jr with Clean Air Testing. The site has submitted on CERS. The following documents were available for review: - Permit to Operate - Leak Response Plan - Certificate of Financial Responsibility - Monitoring Plan + Tank Pages - Plot Plan Map - DO Owner Statement - Monthly DO Reports - Training [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2020
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - Gasoline - Diesel - Carbon dioxide
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to witness annual monitoring system certification and spill bucket test and to conduct a routine UST inspection. The site has the following double-walled tanks: - 20,000 gal 87 - 15,000 gal 91 - 12,000 gal diesel (VPH) Product piping for all tanks is double-walled and pressurized. UST system is monitored via TLS-350 panel. Annular sensors: - 87/91 = VR-409 - diesel = VR-100 (vacuum) Fill/STP sumps: - 87/91 = VR-208 - diesel = VR-208 + VR-304 (DW sumps) Ventbox: - VR-208/VR-100 UDCs: - 1/2 + 3/4 = VR-208 + VR-100 (vacuum) - 5/6 G 11/12 = Float and chain mechanism LLDs: - 87 = VMI LD2000 - 91 = FE Petro STP MLD - diesel = PLLD The following were tested and passed: - Spill buckets - All liquid detection sensors - Sensor out and fail-safe - LLDs - Vacuum sensors for secondary piping Testing was conducted by Dave Lopez Jr. with Clean Air Testing. Technician certs (VR, ICC and VMI) were verified. Please submit test [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-21-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported

UNOCAL #5176 (Continued) **S101588994**

Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-21-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-21-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Corrected past violations and made updates for data transfer.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-23-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received and ACCEPTED the HMBEP on CERS.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-27-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Closed outstanding violations from 2014 & 2015.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-27-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The monitoring system certification test result were received on 9/14/2016. The test was conducted on 9/7/2016. Monitoring system certification = PASS
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-05-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health

UNOCAL #5176 (Continued) **S101588994**

Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-07-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to witness annual monitor certification and to conduct a routine UST inspection. Met with David Lopez of Clean Air Testing. David Lopez conducted the tank testing, monitor system certification, and spill bucket testing. Mr. LopezG s ICC, VPM, and Veeder-Root certifications were observed and verified. The facility contains: - (1) 20,000 gallon double walled UST (87) containing gasoline. - (1) 15,000 gallon double walled UST (91) containing gasoline. - (1) 10,000 gallon double walled UST containing Diesel. All USTs are continuously monitored by a Veeder-Root TLS-350 system. The diesel UST sumps contain brine in the interstitial space. In addition, the vent line UDC also contains brine. Secondary containment for the diesel components is monitored under constant vacuum. Alarm history and set-up tape was reviewed during this inspection. The panel read all functions normal. Facility contains: -Uses a ball float and ATG for overfill protection. The [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-16-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-18-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-22-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS submittal n review.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-28-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency

UNOCAL #5176 (Continued) **S101588994**

Eval Notes:	CERS submittal in review
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-29-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	At site for annual hazardous waste inspection. Permission to enter, inspect , and take photographs granted by Sam Ansari. Facility is a gas Station that generates waste fuel contaminated absorbent and fuel contaminated water. Facility has active EPA id # is CAL000257805 facility had formerly taken waste in five gallon buckets to sister facility but will now manifest waste from this site. the waste hauler is Action Waste Oil. business emergency plan at site Keep copies of all manifests at site for three years.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-29-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to witness monitoring system certification testing activities and to conduct routine UST inspection. Permission to enter, inspect, and take photographs granted by Sam Ansari. The facility has three USTs. Two are double walled USTs with double walled piping. The diesel tank at the facility is a VPH system. The fill sumps , Turbine sumps , vent transition box, and UDC sumps were observed to be dry. The leak sensors in the 87 and 91 fill and turbine sumps were not held in place by a sleeve that kept the sensors completely upright. I discussed setting the sensors in a way that the sensors were completely upright and at the low point with Sam Ansari this date. The hooks on some of the sensors were adjusted sot that the sensors set properly . By the time I had finished my inspection all components except the line leak detectors had been tested and passed per the tester. Site has flappers for overfill prevention. Spill buckets were visibly water tested and passed [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-29-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST documents not accepted in CERS. See item 1-6 for explaination. 1) The following items are missing on the Monitoring Plot Plan (Map): - Layout of piping connections - Monitoring sensors for tank, annual space, and under dispenser pans (UDCs), need model number. - Mechanical or electronic line leak detectors - ATG or flapper - Spill containers /spill kit - Date the site map - Physical address of site 2) Monitoring Plan (Premium Unleaded, Regular Unleaded) - The following info need to be completed: o UDC panel manufacturer o UDC panel model # o UDC leak sensor manufacturer o UDC leak sensor model o

UNOCAL #5176 (Continued) **S101588994**

3) Specify corrosion protection for the Premium and Diesel tanks. 4) Date UST system was installed is needed for the Diesel Tank Page. 5) Certificate of Financial Responsibility is dated 9/8/14. This is only good for one year and is current expired. Please re-new and re-submit. 6) The Owner Statements of Designated UST Operator need to be updated. The [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-31-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBEP Denied.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-06-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and accepted UST submittal. Facility has updated the CFR coverage. Coverage period is 9/25/17 to 9/25/18.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-14-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST documents accepted in CERS The following documents were received: UST Facility Page UST Tank Pages, 3 tanks (87, 91, D) Monitoring Plan (corrected) Leak Response Plan Facility Diagram (corrected) Designated Operator Statement: DO is Clean Air Testing Monitoring system cert dated 10/7/2015. No test results in file or on CERS. Violation for failed Spill bucket still outstanding. Emailed district inspector for follow-up. Secondary containment test report dated 10/28/14, submittal dated 11/24/14 Certification of Financial Responsibility documents dated 9/25/15 Certification of Financial Responsibility documents for the coverage period of 9/25/15-9/25/16
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-16-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The results from the monitoring system certification testing conducted on 9/9/17 by Clean Air Testing were received and reviewed. The results indicated the following: - All sensors passed testing -All mechanical leak detectors and the Diesel PLLD passed testing. - 2 of the chains and float needed adjusting. The Spill bucket testing report form indicated all fill side spill buckets passed testing. The Results from

UNOCAL #5176 (Continued) **S101588994**

	the Vacuum/ Pressure Monitoring sensors in the Diesel UST and 1/2 and 3/4 UDCs all passed testing. Site map included in the results. All components tested received a pass. Thank you
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-20-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received notification that the facility has been issued an EPA ID. The following violation has been corrected: - I352: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste The facility has no outstanding Hazardous Waste violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-22-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received documentation to close out the following violations: -I015: Facility has a copy of Permit to Operate on site -I007: Statement of Understanding and Compliance submitted to CERS -I106: DO reports have overfill test date documented -I319: Copy of Overfill Prevention Equipment Inspection dated 2/11/19 kept on site There are no other outstanding violations. Please contact me at acabudol@ochca.com or 714-625-2702 if you have questions.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-22-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received HMBP training records for training done on 2/7/2019. The following violations have been closed: -I239: Annual training records maintained on site.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-24-2014
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On this date, I received a copy of the secondary testing report conducted at the facility on 10/28/2014. Based on the results, secondary testing failed on the 91 secondary product line, and UDCs, 5-6, 7-8, 9-10, and 11-12 (See violation I-382 above). The facility has 30 days from receipt of this report to submit plans for System Modifications.

UNOCAL #5176 (Continued) **S101588994**

Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-30-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The 36th month Secondary Containment testing Report Form was received a reviewed. The testing was conducted on 10-25-17. The Results indicated that the following components passed testing: -Buckets 2 -Secondary Lines -Fill Sumps -STP Sumps -Annulars -UDC 5-12 NOTE the UDCs 1-4 are VPH monitored as is the Diesel UST and sumps. All components tested received a pass. Thank you
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-07-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following documents were received by this Agency: - Monitoring System Certification Form dated 9/17/20 - Spill Container Testing Report Form dated 9/17/20 All components were tested and passed. The following documents were received in CERS: - UST Tank Info/Monitoring Plan The following violation has been corrected: - I003: Failure to have an approved UST Monitoring Plan The facility has no outstanding violations.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-10-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received tank modification plans due to a failed SB989 test. Plans state that the contractor will locate the leak, break concrete, repair the leak by installing a new ICON ISR 1.8x1.4 split reducer. In addition, install reducer fitting on all UDCs (except for dispensers 1-4. Soil samples will be collected under the supervision of this agency. Approved plans.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-19-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Corrected violation list to contain updated info (changed date complied on date and status of violations that have been corrected and noted in EC).
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

UNOCAL #5176 (Continued) **S101588994**

Eval General Type: Other/Unknown
Eval Date: 12-19-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST document declined in CERS. Comment below. "Your UST CERS submittal has not been accepted. Please see the comment below: Diesel Monitoring Plan: Leak sensor models for the Diesel tank were specified as 208 and 304 but the monitoring plan contains sensor model 100 for the tank monitoring and the piping monitoring. Please clarify and re-submit. Any question please feel free to contact me at 14-720-1327 or minh.le@ochca.com. Thank you." The following documents were received: UST Facility Page UST Tank Pages, 3 tanks (87,89,D). The Diesel tank is VPH. All others are double-walled. Revised Monitoring Plan (plan and diagram inconsistent; waiting for update) Leak Response Plan Facility Diagram Operator/DO agreement updated; Do is Clean Air Testing Inc. Monitoring system certification dated 10/7/15 Secondary containment test report dated 10/28/14 Certification of Financial Responsibility documents dated 9/25/15 Certification of Financial Responsibility [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-29-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On site for review of the proposed repairs for UDCs 7/8 and 9/10. Susan Berg, Supervising Hazardous Materials Specialist and Dave Lopez Sr. with Clean Air Testing were also on site. During the review it was determined that installation of the ICON fittings would require direct contact with the UDC walls and affect the seal of the secondary containment. The repairs will require a submission of a Facility Modification Application, Scope of Work, plan check fee and required certification.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Coordinates:
Site ID: 121816
Facility Name: H&S Energy Products, LLC #2001
Env Int Type Code: HWG
Program ID: 10400917
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.810250
Longitude: -118.028680

Affiliation:
Affiliation Type Desc: Legal Owner
Entity Name: H&S Energy Products, LLC
Entity Title: Not reported
Affiliation Address: 2860 N. SANTIAGO BLVD
Affiliation City: ORANGE
Affiliation State: CA

UNOCAL #5176 (Continued) **S101588994**

Affiliation Country:	United States
Affiliation Zip:	92867
Affiliation Phone:	(714) 448-5000
Affiliation Type Desc:	Property Owner
Entity Name:	H&S Energy, LLC
Entity Title:	Not reported
Affiliation Address:	2860 Santiago Blvd
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92867
Affiliation Phone:	(714) 448-5000
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	H&S Energy, LLC
Entity Title:	Not reported
Affiliation Address:	2860 N. Santiago Blvd
Affiliation City:	Orange
Affiliation State:	Ca
Affiliation Country:	United States
Affiliation Zip:	92867
Affiliation Phone:	(714) 448-5000
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406
Affiliation Type Desc:	Document Preparer
Entity Name:	Karen McKabney
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	H&S Energy Products, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 448-5000
Affiliation Type Desc:	UST Tank Operator
Entity Name:	H&S Energy Products, LLC
Entity Title:	Not reported

UNOCAL #5176 (Continued) **S101588994**

Affiliation Address:	2860 N. Santiago Blvd
Affiliation City:	ORANGE
Affiliation State:	Ca
Affiliation Country:	United States
Affiliation Zip:	92867
Affiliation Phone:	(714) 448-5000
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2860 N. Santiago Blvd
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92867
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	AlaEddin Hassan
Entity Title:	V.P
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	AlaEddin Hassan (Victor)
Entity Title:	Not reported
Affiliation Address:	2860 N. Santiago Blvd
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92867
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	H&S Energy, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Alaeddin Hassan
Entity Title:	V.P
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 448-5000

UNOCAL #5176 (Continued) **S101588994**

Affiliation Type Desc:	UST Tank Owner
Entity Name:	H&S Energy, LLC
Entity Title:	Not reported
Affiliation Address:	2860 N. SANTIAGO BLVD
Affiliation City:	Orange
Affiliation State:	Ca
Affiliation Country:	United States
Affiliation Zip:	92867
Affiliation Phone:	(714) 448-5000

HWTS:

Name:	H & S ENERGY PRODUCTS LLC 2001
Address:	5999 CERRITOS AVE
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
EPA ID:	CAL000257805
Inactive Date:	Not reported
Create Date:	08/16/2002
Last Act Date:	09/25/2020
Mailing Name:	Not reported
Mailing Address:	2860 N SANTIAGO BLVD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	ORANGE, CA 928670000
Owner Name:	H&S ENERGY PRODUCTS LLC
Owner Address:	2860 N SANTIAGO BLVD
Owner Address 2:	Not reported
Owner City,State,Zip:	ORANGE, CA 928670000
Contact Name:	VICTOR HASSAN
Contact Address:	2860 N SANTIAGO BLVD
Contact Address 2:	Not reported
City,State,Zip:	ORANGE, CA 92867

NAICS:

EPA ID:	CAL000257805
Create Date:	2002-08-16 14:14:29.670
NAICS Code:	44711
NAICS Description:	Gasoline Stations with Convenience Stores
Issued EPA ID Date:	2002-08-16 14:14:29.62300
Inactive Date:	Not reported
Facility Name:	H & S ENERGY PRODUCTS LLC 2001
Facility Address:	5999 CERRITOS AVE
Facility Address 2:	Not reported
Facility City:	CYPRESS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	906300000

Y108 **SERVICE STATION 5176** **HIST UST** **U001564555**
NE **5999 CERRITOS** **N/A**
1/8-1/4 **CYPRESS, CA 90630**
0.246 mi.
1298 ft. **Site 7 of 8 in cluster Y**

Relative:
Higher

Actual:
42 ft.

HIST UST:

Name:	SERVICE STATION 5176
Address:	5999 CERRITOS
City,State,Zip:	CYPRESS, CA 90630
File Number:	0002D643
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002D643.pdf
Region:	STATE
Facility ID:	00000021293
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	MARCOS REBULTAN ABAD
Telephone:	7145278301
Owner Name:	UNION OIL COMPANY OF CALIFORNI
Owner Address:	3701 WILSHIRE BOULEVARD-SUITE
Owner City,St,Zip:	LOS ANGELES, CA 90010
Total Tanks:	0003
Tank Num:	001
Container Num:	5176-4
Year Installed:	1963
Tank Capacity:	00000280
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test
Tank Num:	002
Container Num:	5176-2
Year Installed:	1963
Tank Capacity:	00009940
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test
Tank Num:	003
Container Num:	5176-1
Year Installed:	1963
Tank Capacity:	00009940
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test

Click here for Geo Tracker PDF:

Y109 **UNION OIL SERVICE STATION 5176** **HIST UST** **1000166933**
NE **5999 CERRITOS** **N/A**
1/8-1/4 **CYPRESS, CA 90630**
0.246 mi.
1298 ft. **Site 8 of 8 in cluster Y**

Relative: **Higher**
Actual: **42 ft.**

HIST UST:

Name:	UNION OIL SERVICE STATION 5176
Address:	5999 CERRITOS
City,State,Zip:	CYPRESS, CA 90630
File Number:	0002D6D9
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002D6D9.pdf
Region:	STATE
Facility ID:	00000056184
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	MARCOS REBULTAN ABAD
Telephone:	7145278301
Owner Name:	UNION OIL COMPANY OF CALIFORNI
Owner Address:	3701 WILSHIRE BOULEVARD-SUITE
Owner City,St,Zip:	LOS ANGELES, CA 90010
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000300
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

W110 **JE & RL GROUP LLC DBA BIG O TIRES** **RCRA NonGen / NLR** **1026492742**
NE **6052 CERRITOS AVE** **CAL000457537**
1/8-1/4 **CYPRESS, CA 90630**
0.247 mi.
1302 ft. **Site 8 of 10 in cluster W**

Relative: **Higher**
Actual: **43 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2020-10-14 00:00:00.0
Handler Name:	JE & RL GROUP LLC DBA BIG O TIRES
Handler Address:	6052 CERRITOS AVE
Handler City,State,Zip:	CYPRESS, CA 90630
EPA ID:	CAL000457537
Contact Name:	JOSHUA EDWARDS
Contact Address:	1105 SANDI LANE
Contact City,State,Zip:	COSTA MESA, CA 92627
Contact Telephone:	714-270-2588
Contact Fax:	Not reported
Contact Email:	DSTR6@HOTMAIL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported

JE & RL GROUP LLC DBA BIG O TIRES (Continued) **1026492742**

State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1105 SANDI LANE
Mailing City,State,Zip:	COSTA MESA, CA 92627
Owner Name:	JE & RL GROUP LLC
Owner Type:	Other
Operator Name:	JOSHUA EDWARDS
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:	2020-10-26 14:55:58.0
Recognized Trader-Importer:	No

JE & RL GROUP LLC DBA BIG O TIRES (Continued) **1026492742**

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:	JOSHUA EDWARDS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1105 SANDI LANE
Owner/Operator City,State,Zip:	COSTA MESA, CA 92627
Owner/Operator Telephone:	714-270-2588
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JE & RL GROUP LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1105 SANDI LANE
Owner/Operator City,State,Zip:	COSTA MESA, CA 92627
Owner/Operator Telephone:	714-270-2588
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2020-10-14 00:00:00.0
Handler Name:	JE & RL GROUP LLC DBA BIG O TIRES
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	811111
NAICS Description:	GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:

Violations:	No Violations Found

JE & RL GROUP LLC DBA BIG O TIRES (Continued) **1026492742**

Evaluation Action Summary:
Evaluations: No Evaluations Found

W111 **BML GROUP LLC DBA BIG O TIRES CYPRESS** **RCRA NonGen / NLR** **1024858979**
NE **6052 W CERRITOS AVE** **CAL000425741**
1/8-1/4 **CYPRESS, CA 90630**
0.247 mi.
1302 ft. **Site 9 of 10 in cluster W**

Relative:
Higher

Actual:
43 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2017-03-14 00:00:00.0
Handler Name:	BML GROUP LLC DBA BIG O TIRES CYPRESS
Handler Address:	6052 W CERRITOS AVE
Handler City,State,Zip:	CYPRESS, CA 90630
EPA ID:	CAL000425741
Contact Name:	BRANDON LESTER
Contact Address:	6052 W. CERRITOS AVE
Contact City,State,Zip:	CYPRESS, CA 90630
Contact Telephone:	714-686-2430
Contact Fax:	Not reported
Contact Email:	BRANDON.BIGOTIRES@GMAIL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	13 BEECHWOOD
Mailing City,State,Zip:	ALISO VIEJO, CA 92656
Owner Name:	BML GROUP LLC
Owner Type:	Other
Operator Name:	BRANDON LESTER
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

BML GROUP LLC DBA BIG O TIRES CYPRESS (Continued) **1024858979**

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:	2018-09-07 19:35:44.0
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:	BML GROUP LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	13 BEECHWOOD
Owner/Operator City,State,Zip:	ALISO VIEJO, CA 92656
Owner/Operator Telephone:	714-686-2430
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	BRANDON LESTER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6052 W. CERRITOS AVE

BML GROUP LLC DBA BIG O TIRES CYPRESS (Continued) **1024858979**

Owner/Operator City,State,Zip: CYPRESS, CA 90630
Owner/Operator Telephone: 714-686-2430
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2017-03-14 00:00:00.0
Handler Name: BML GROUP LLC DBA BIG O TIRES CYPRESS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

W112 **BIG O TIRES # 5858** **CERS HAZ WASTE** **S113090433**
NE **6052 CERRITOS AVE** **CERS** **N/A**
1/8-1/4 **CYPRESS, CA 90630**
0.247 mi.
1302 ft. **Site 10 of 10 in cluster W**

Relative:
Higher

Actual:
43 ft.

CERS HAZ WASTE:
Name: BIG O TIRES # 5858
Address: 6052 CERRITOS AVE
City,State,Zip: CYPRESS, CA 90630
Site ID: 379809
CERS ID: 10406152
CERS Description: Hazardous Waste Generator

CERS:
Name: BIG O TIRES # 5858
Address: 6052 CERRITOS AVE
City,State,Zip: CYPRESS, CA 90630
Site ID: 379809
CERS ID: 10406152
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 379809
Site Name: BIG O TIRES # 5858

BIG O TIRES # 5858 (Continued) **S113090433**

Violation Date:	08-05-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/05/2020. OBSERVATION: Chemical Inventory on CERS requires amendments. CORRECTIVE ACTION: Review comments in CERS, Revise, and resubmit within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	379809
Site Name:	BIG O TIRES # 5858
Violation Date:	08-04-2020
Citation:	22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description:	Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes:	Returned to compliance on 09/21/2020. OBSERVATION: Manifests for the waste paper filters and brake fluid were not available for review at the facility. CORRECTIVE ACTION: Submit copies of the most recent manifests to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	379809
Site Name:	BIG O TIRES # 5858
Violation Date:	04-09-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to 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 04/16/2020. The facility failed to submit the Hazardous Materials Business Emergency plan before the deadline of March 1, 2020. Corrective action: Within 30 days, notify this Agency that the plan has been submitted on CERS.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	379809
Site Name:	BIG O TIRES # 5858
Violation Date:	08-05-2020
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 09/24/2020. OBSERVATION: Training records

BIG O TIRES # 5858 (Continued) **S113090433**

were not available for review. Facility must conduct and document annual training for employees as specified in the employee training plan. CORRECTIVE ACTION: Please provide training records for the Hazardous Materials Business Plan with the following information documented: topic of training, date, employee name, employee signature. Submit documentation to this Agency within 30 days.

Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 379809
Site Name: BIG O TIRES # 5858
Violation Date: 08-04-2020
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 09/21/2020. OBSERVATION: The label on the brake fluid was missing the accumulation start date. CORRECTIVE ACTION: Complete the label and submit a photo to this Agency within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 379809
Site Name: BIG O TIRES # 5858
Violation Date: 10-01-2014
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 11/30/2014. Facility Map: All writing needs to be readable from left to right. If using symbols/abbreviations, use a legend for explanation. Also, Show what streets are adjacent to the property. Identify neighboring properties. Chemicals For 5w-30, put petroleum hydrocarbon distillate as chemical name. For motor oil, do the same. Also, in the common name, add what weight motor oil it is.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 09-10-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed HMBEP submission package on CERS, DENIED. Request for resubmittal on 10/12/2015, but they want to close down this ite because they no longer own it, marco will be taking over
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

BIG O TIRES # 5858 (Continued) **S113090433**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-01-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Met with Glen Kotler Inspected used oil, drained used oil/fuel filters, aqueous parts cleaner and waste antifreeze. Drums were provided with a lid, stored in a secure manner and appear to be in good condition. The operator completes a maintenance inspection on the drums on a weekly basis. A Hazardous Waste label was noted on all drums with the required identification. Municipal dumpster area does not appear to contain any hazardous waste. Perimeter of facility inspected - did not observe any water runoff or staining at this time. Hazardous Waste Emergency Response plan was available for review. Manifests and bills of lading for all hazardous waste streams were reviewed today. Ensure all hazardous waste manifests/disposal documents are maintained on site for at least three years from the date of transport and are available for review during normal business hours. Please continue to ensure all [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-01-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	The purpose of this visit is to conduct a routine Hazardous Materials Disclosure inspection. Met with Glen Kotler. During the inspection the following was observed: Reviewed list of chemicals stored onsite and online. Please logon and correct violation listed above. Reviewed training records onsite and online. The facility representative onsite stated that staff are trained at least yearly on emergency response procedures and hazardous waste management. The operator is also aware that new staff must be trained on emergency response within six months of employment and then yearly after that. Reviewed Business Emergency Plan / Plot Plan online. Please correct violation listed above. Completely reviewed online CUPA form submittal on California Environmental Reporting System (CERS). For more information regarding Hazardous Materials Disclosure, or to sign up for our eNewsletter please visit http://www.occupainfo.com/
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-01-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	This facility has changed ownership as of 6/5/15. The new owner info is below. Big O Tires 6052 W. Cerritos Ave Cypress, CA 90830 714 826-6334 Store005846@bigostores.com Manager is John Markworth. Owner info: Golden West Tire Centers LLC 19034 Portal Dr Los Alamitos, CA 90720 562 277-7285 Onsite to conduct a routine hazardous waste inspection. Met with John Markworth. Inspected used oil, drained used oil/fuel filters, aqueous parts cleaner and waste antifreeze. Drums were provided with a lid, stored in a secure manner and appear to be

BIG O TIRES # 5858 (Continued) **S113090433**

	in good condition. The operator completes a maintenance inspection on the drums on a weekly basis. A Hazardous Waste label was noted on all drums with the required identification. Municipal dumpster area does not appear to contain any hazardous waste. Perimeter of facility inspected - did not observe any water runoff or staining at this time. Hazardous Waste Emergency Response plan was available for [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-01-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	This facility has changed ownership as of 6/5/15. The new owner info is below. Big O Tires 6052 W. Cerritos Ave Cypress, CA 90830 714 826-6334 Store005846@bigostores.com Manager is John Markworth. Owner info: Golden West Tire Centers LLC 19034 Portal Dr Los Alamitos, CA 90720 562 277-7285 The purpose of this visit is to conduct a routine Hazardous Materials Disclosure inspection with John Markworth. During the inspection the following was observed: Reviewed list of chemicals stored onsite and online. Reviewed training records onsite and online. The facility representative onsite stated that management. The operator is also aware that new staff must be trained on emergency response within six months of employment and then yearly after that. Reviewed Business Emergency Plan / Plot Plan online. Completely reviewed online CUPA form submittal on County of Orange eSubmit Portal. For more information regarding Hazardous Materials Disclosure, [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-14-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Denied. Reviewed HMBEP submission package on CERS. Submission DENIED. Request for re-submittal.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-01-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following documents have been reviewed and ACCEPTED on CERS: -Business Activities -Business Owner/Operator -Chemical Inventory -Facility Site Map The following violation has been corrected: - I169: Failure to complete and electronically submit hazardous material inventory forms information for all reportable hazardous materials on site at or above reportable quantities The facility has no outstanding violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

BIG O TIRES # 5858 (Continued) **S113090433**

Eval General Type:	Other/Unknown
Eval Date:	12-01-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following documents were received by this Agency: - Photo of brake fluid label - Hazardous waste manifests (filters and brake fluid) The following violations have been corrected: - I474: Failure to keep a copy of each properly signed manifest for at least three years from - i400: 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 The facility has no outstanding violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	10-01-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This facility has changed ownership as of 6/5/15. The new owner info is below. Big O Tires 6052 W. Cerritos Ave Cypress, CA 90830 714 826-6334 Store005846@bigostores.com Manager is John Markworth. Owner info: Golden West Tire Centers LLC 19034 Portal Dr Los Alamitos, CA 90720 562 277-7285
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	10-01-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This facility has changed ownership as of 6/5/15. The new owner info is below. Big O Tires 6052 W. Cerritos Ave Cypress, CA 90830 714 826-6334 Store005846@bigostores.com Manager is John Markworth. Owner info: Golden West Tire Centers LLC 19034 Portal Dr Los Alamitos, CA 90720 562 277-7285
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	10-01-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following document was received by this Agency: - Training records The following violation has been corrected: - I239: 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 The following violation is outstanding and must be corrected immediately: - I169: Failure to complete and electronically submit hazardous material inventory forms information for all reportable hazardous materials on site at or above reportable quantities

BIG O TIRES # 5858 (Continued) **S113090433**

Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-31-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Denied.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-20-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Submission in review.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-10-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP denied. Reviewed HMBEP submission package on eSubmit Portal. Submission DENIED. Request for re-submittal.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-25-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS 10406152 Accepted 2017 Annual Certification for the following elements: Facility Information Chemical Inventory Emergency Response and Training Plan
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-09-2020
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The facility has failed to submit the Hazardous Materials Business Emergency Plan by the deadline March 1, 2020. To correct the violation log on to CERS and submit the business plan for the year 2020. A copy of this report was sent to brandon.bigotires@gmail.com.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-17-2020

BIG O TIRES # 5858 (Continued) **S113090433**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed the submittal dated 4/16/2020 for sections: Facility Information, Hazardous Materials Inventory, and Emergency Response and Training Plans. All sections were accepted. Violation I463 was observed to be corrected, no further corrective action required. A copy of this report was sent to brandon.bigotires@gmail.com.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-28-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	This facility changed ownership on April 13, 2017. The new ownership info is below. Big O Tires #5858 6052 W. Cerritos Ave Cypress, CA 90630 714 826-6334 store005858@bigostores.com brandon.bigotires@gmail.com CAL000425741 TPID: 1883145 Brandon Lester, Owner
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-28-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	This facility changed ownership on April 13, 2017. The new ownership info is below. Big O Tires #5858 6052 W. Cerritos Ave Cypress, CA 90630 714 826-6334 store005858@bigostores.com brandon.bigotires@gmail.com CAL000425741 TPID: 1883145 Brandon Lester, Owner Onsite to conduct a routine hazardous waste inspection. Met with Brandon Lester. Inspected used oil, drained used oil/fuel filters, absorbents, aqueous parts cleaner and waste antifreeze. Drums were provided with a lid, stored in a secure manner and appear to be in good condition. The operator completes a maintenance inspection on the drums on a weekly basis. A Hazardous Waste label was noted on all drums with the required identification. Municipal dumpster area does not appear to contain any hazardous waste. Perimeter of facility inspected - did not observe any water runoff or staining at this time. Hazardous Waste Emergency Response plan was available for review. Manifests and bills of [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-19-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Accepted HMBEP. Waste antifreeze (coolant) was added to the disclosure.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

BIG O TIRES # 5858 (Continued) **S113090433**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-04-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - 1 x 250 gal new oil - 2 x 55 gal ATF - 2 x 150 gal used oil + 1 x 250 gal used oil - 2 x 55 gal waste antifreeze - 2 x 55 gal waste brake fluid
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-04-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed. Manifests were available and reviewed. Employees are reported to be trained. Contingency Plan on site. No hazardous waste or universal waste observed in the dumpster/enclosure area.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	379809
Facility Name:	BIG O TIRES # 5858
Env Int Type Code:	HWG
Program ID:	10406152
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.809840
Longitude:	-118.025970

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	6052 Cerritos Ave
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Brandon Lester
Entity Title:	Not reported
Affiliation Address:	6052 Cerritos Ave.
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported

BIG O TIRES # 5858 (Continued) **S113090433**

Affiliation Type Desc:	Legal Owner
Entity Name:	BML Group, LLC
Entity Title:	Not reported
Affiliation Address:	6052 Cerritos Ave
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(714) 686-2430

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406

Affiliation Type Desc:	Operator
Entity Name:	BML Group, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 686-2430

Affiliation Type Desc:	Parent Corporation
Entity Name:	BIG O TIRES # 5858
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Brandon Lester
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Brandon Lester
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

BIG O TIRES # 5858 (Continued) **S113090433**

Affiliation Zip: Not reported
Affiliation Phone: Not reported

Z113 **TAYCO ENGINEERING INC** **ENVIROSTOR** **S113012004**
East **10874 HOPE ST** **CERS HAZ WASTE** **N/A**
1/4-1/2 **CYPRESS, CA 90630** **HAZNET**
0.347 mi. **NPDES**
1832 ft. **Site 1 of 2 in cluster Z** **CIWQS**
CERS
Relative: Higher **HWTS**

Actual: 41 ft.

ENVIROSTOR:

Name:	TAYCO ENGINEERING INC.
Address:	10874 HOPE STREET
City,State,Zip:	CYPRESS, CA 90630
Facility ID:	60002556
Status:	Active
Status Date:	09/19/2017
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	1
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Violeta Mislang
Supervisor:	Robert Senga
Division Branch:	Cleanup Cypress
Assembly:	Not reported
Senate:	Not reported
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	0
Longitude:	0
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	60002556
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase I Verification
Completed Date:	07/26/2018
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	10/03/2017
Comments:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS HAZ WASTE:

Name: TAYCO ENGINEERING INC
Address: 10874 HOPE ST
City,State,Zip: CYPRESS, CA 90630
Site ID: 363815
CERS ID: 10537606
CERS Description: Hazardous Waste Generator

Name: TAYCO ENGINEERING INC
Address: 10874 HOPE ST
City,State,Zip: CYPRESS, CA 90630
Site ID: 363815
CERS ID: 10537606
CERS Description: Hazardous Waste Onsite Treatment

Name: TAYCO ENGINEERING INC
Address: 10874 HOPE ST
City,State,Zip: CYPRESS, CA 90630
Site ID: 363815
CERS ID: 10537606
CERS Description: RCRA LQ HW Generator

HAZNET:

Name: TAYCO ENGINEERING INC
Address: 10874 HOPE ST
Address 2: Not reported
City,State,Zip: CYPRESS, CA 906305214
Contact: LANCE LUU
Telephone: 7149522240
Mailing Name: Not reported
Mailing Address: 10874 HOPE ST

Year: 2019
Gepaid: CAD982004632
TSD EPA ID: NVT330010000
CA Waste Code: 792 - Liquids with pH <= 2 with metals
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 2.98155

Year: 2019
Gepaid: CAD982004632
TSD EPA ID: NVT330010000
CA Waste Code: 181 - Other inorganic solid waste
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)

TAYCO ENGINEERING INC (Continued) **S113012004**

Tons:	2.65050
Year:	2019
Gepaid:	CAD982004632
TSD EPA ID:	KSD980633259
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:	0.38000
Year:	2019
Gepaid:	CAD982004632
TSD EPA ID:	NVT330010000
CA Waste Code:	352 - Other organic solids
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	1.25000
Year:	2019
Gepaid:	CAD982004632
TSD EPA ID:	CAT080013352
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:	0.03000
Year:	2019
Gepaid:	CAD982004632
TSD EPA ID:	KSD980633259
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:	0.58000
Year:	2019
Gepaid:	CAD982004632
TSD EPA ID:	CAD059494310
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:	0.06250
Year:	2019
Gepaid:	CAD982004632
TSD EPA ID:	CAD059494310
CA Waste Code:	551 - Laboratory waste chemicals
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.06500
Year:	2018
Gepaid:	CAD982004632
TSD EPA ID:	NVT330010000
CA Waste Code:	352 - Other organic solids
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.85000

TAYCO ENGINEERING INC (Continued) **S113012004**

Year:	2018
Gepaid:	CAD982004632
TSD EPA ID:	NVT330010000
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	1.52000

Click this hyperlink while viewing on your computer to access
195 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2009
Gen EPA ID:	CAD982004632
Shipment Date:	20091203
Creation Date:	2/3/2010 18:30:22
Receipt Date:	20091204
Manifest ID:	006075855JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091014
Creation Date:	11/25/2009 18:30:45
Receipt Date:	20091016
Manifest ID:	006074557JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

TAYCO ENGINEERING INC (Continued) **S113012004**

Quantity Tons:	0.325
Waste Quantity:	650
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090910
Creation Date:	10/13/2009 18:30:10
Receipt Date:	20090911
Manifest ID:	002707753JJK
Trans EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090831
Creation Date:	10/6/2009 18:30:19
Receipt Date:	20090904
Manifest ID:	006075489JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Shipment Date:	20090729
Creation Date:	9/9/2009 18:30:22
Receipt Date:	20090731
Manifest ID:	006075032JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.275
Waste Quantity:	550
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20090604
Creation Date:	7/2/2009 18:30:26
Receipt Date:	20090605
Manifest ID:	004865728JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.275
Waste Quantity:	550
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20090407
Creation Date:	7/31/2009 18:30:21
Receipt Date:	20090410
Manifest ID:	005774381JJK
Trans EPA ID:	CAR000188201
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	NJD986607380

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans 2 Name:	MAUMEE EXPRESS (ID #778)
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090406
Creation Date:	5/12/2009 18:30:20
Receipt Date:	20090410
Manifest ID:	004865194JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090209
Creation Date:	4/3/2009 18:30:08
Receipt Date:	20090213
Manifest ID:	004864775JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006

TAYCO ENGINEERING INC (Continued) **S113012004**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.275
Waste Quantity:	550
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090209
Creation Date:	3/31/2009 18:30:22
Receipt Date:	20090209
Manifest ID:	002707750JJK
Trans EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2001
Gen EPA ID:	CAD982004632
Shipment Date:	20011107
Creation Date:	1/16/2002 0:00:00
Receipt Date:	20011107
Manifest ID:	96594890
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.6255
Waste Quantity:	150
Quantity Unit:	G

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional 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:	20010906
Creation Date:	10/23/2001 0:00:00
Receipt Date:	20010907
Manifest ID:	21152020
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.4
Waste Quantity:	800
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:	20010822
Creation Date:	10/23/2001 0:00:00
Receipt Date:	20010823
Manifest ID:	96594889
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.417
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010718
Creation Date:	10/1/2001 0:00:00
Receipt Date:	20010719

TAYCO ENGINEERING INC (Continued) **S113012004**

Manifest ID:	96594888
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.6255
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010523
Creation Date:	7/30/2001 0:00:00
Receipt Date:	20010523
Manifest ID:	96594887
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.417
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010523
Creation Date:	7/20/2001 0:00:00
Receipt Date:	20010525
Manifest ID:	21180156
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.44
Waste Quantity:	880
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:	20010511
Creation Date:	7/30/2001 0:00:00
Receipt Date:	20010523
Manifest ID:	21180280
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	CAD010925576
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.225
Waste Quantity:	450
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:	20010511
Creation Date:	7/20/2001 0:00:00
Receipt Date:	20010517
Manifest ID:	21180281
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010511
Creation Date:	7/20/2001 0:00:00
Receipt Date:	20010517
Manifest ID:	21180281
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
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:	20010425
Creation Date:	7/10/2001 0:00:00
Receipt Date:	20010430
Manifest ID:	20052276
Trans EPA ID:	CAL000113451
Trans Name:	Not reported
Trans 2 EPA ID:	CAD981446156
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD009015389
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.275
Waste Quantity:	550
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAD982004632
Shipment Date:	20051219
Creation Date:	3/16/2006 18:30:37

TAYCO ENGINEERING INC (Continued) **S113012004**

Receipt Date:	20051223
Manifest ID:	24765875
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES CA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.4
Waste Quantity:	800
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:	20051219
Creation Date:	8/10/2006 18:34:27
Receipt Date:	20051228
Manifest ID:	24765876
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	AZD009015389
Trans Name:	ROMIC ENVIRONMENTAL TECHNOLOGIES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20051114
Creation Date:	1/2/2007 18:30:20
Receipt Date:	20051117
Manifest ID:	24764310
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	UTR000007708
Trans 2 Name:	SLT EXPRESS INC
TSDF EPA ID:	IND000646943
Trans Name:	POLLUTION CONTROL INDUSTRIES
TSDF Alt EPA ID:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051114
Creation Date:	1/2/2007 18:30:32
Receipt Date:	20051118
Manifest ID:	24764309
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES CA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.5
Waste Quantity:	1000
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:	20051031
Creation Date:	3/14/2007 18:30:14
Receipt Date:	20051031
Manifest ID:	22301316
Trans EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050919
Creation Date:	4/13/2006 18:48:46
Receipt Date:	20050919
Manifest ID:	22301314
Trans EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050908
Creation Date:	4/13/2006 18:47:49
Receipt Date:	20050909
Manifest ID:	24576131
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES CA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.4
Waste Quantity:	800
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:	20050908
Creation Date:	12/16/2005 18:31:03
Receipt Date:	20050919
Manifest ID:	24576132
Trans EPA ID:	CAR000047696

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	UTR000007708
Trans 2 Name:	SLT EXPRESS INC
TSDF EPA ID:	IND000646943
Trans Name:	POLLUTION CONTROL INDUSTRIES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050727
Creation Date:	10/11/2005 18:32:36
Receipt Date:	20050727
Manifest ID:	22301313
Trans EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050711
Creation Date:	10/11/2005 18:31:29
Receipt Date:	20050715
Manifest ID:	24573445
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES CA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006

TAYCO ENGINEERING INC (Continued) **S113012004**

Meth Code: D99 - Disposal, Other
Quantity Tons: 0.75
Waste Quantity: 1500
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: 1997
Gen EPA ID: CAD982004632

Shipment Date: 19971125
Creation Date: 7/23/1998 0:00:00
Receipt Date: 19971202
Manifest ID: 96837500
Trans EPA ID: CAD028277036
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080033681
Trans Name: Not reported
TSDF Alt EPA ID: CAT080033681
TSDF Alt Name: Not reported
Waste Code Description: 181 - Other inorganic solid waste Organics
RCRA Code: D006
Meth Code: D99 - Disposal, Other
Quantity Tons: 0.3
Waste Quantity: 600
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: 19971121
Creation Date: 7/23/1998 0:00:00
Receipt Date: 19971123
Manifest ID: 96594859
Trans EPA ID: NJD986619328
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008488025
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 792 - Not reported
RCRA Code: D002
Meth Code: T01 - Treatment, Tank
Quantity Tons: 0.6255
Waste Quantity: 150
Quantity Unit: G
Additional Code 1: Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970820
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19970820
Manifest ID:	96594858
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	1.0425
Waste Quantity:	250
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:	19970728
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19970806
Manifest ID:	96808000
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.2
Waste Quantity:	400
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:	19970710
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19970710
Manifest ID:	96594855

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.834
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19970513
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19970521
Manifest ID:	96860458
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	DER000000273
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD049318009
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D006
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2
Waste Quantity:	400
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:	19970423
Creation Date:	6/26/1997 0:00:00
Receipt Date:	19970423
Manifest ID:	96594854
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.417
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970318
Creation Date:	6/26/1997 0:00:00
Receipt Date:	19970321
Manifest ID:	96422502
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970318
Creation Date:	6/26/1997 0:00:00
Receipt Date:	19970401
Manifest ID:	96422504
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.108
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional Code 5:	Not reported
Shipment Date:	19970318
Creation Date:	6/26/1997 0:00:00
Receipt Date:	19970325
Manifest ID:	96422505
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	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:	1995
Gen EPA ID:	CAD982004632
Shipment Date:	19951102
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951102
Manifest ID:	93142711
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19951009
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951013

TAYCO ENGINEERING INC (Continued) **S113012004**

Manifest ID:	95580801
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	ARD981908551
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD049318009
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D006
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19950713
Creation Date:	11/13/1995 0:00:00
Receipt Date:	19950718
Manifest ID:	95199342
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	ARD981908551
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD049318009
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19950710
Creation Date:	10/25/1995 0:00:00
Receipt Date:	19950710
Manifest ID:	93142710
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.417
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19950517
Creation Date:	4/2/1996 0:00:00
Receipt Date:	19950518
Manifest ID:	93142709
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.6255
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19950510
Creation Date:	4/2/1996 0:00:00
Receipt Date:	19950516
Manifest ID:	95199279
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD049318009
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D008
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19950510
Creation Date:	4/2/1996 0:00:00
Receipt Date:	19950516
Manifest ID:	95199279
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD049318009
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.75
Waste Quantity:	1500
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:	19950310
Creation Date:	3/29/1996 0:00:00
Receipt Date:	19950317
Manifest ID:	93603552
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD049318009
Trans Name:	Not reported
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:	H01 - Transfer Station
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19950227
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19950227
Manifest ID:	92025728
Trans EPA ID:	CAD982011199
Trans Name:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.417
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19950131
Creation Date:	3/29/1996 0:00:00
Receipt Date:	19950203
Manifest ID:	93603475
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD049318009
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2017
Gen EPA ID:	CAD982004632

Shipment Date:	20171211
Creation Date:	7/5/2018 18:32:15
Receipt Date:	20171215
Manifest ID:	014365384JJK
Trans EPA ID:	CAD983613688
Trans Name:	MILES CHEMICAL COMPANY
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST & SONS TRUCKINGS
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D007
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170926
Creation Date:	7/16/2018 18:31:15
Receipt Date:	20171002
Manifest ID:	014559121JJK
Trans EPA ID:	CAD983613688
Trans Name:	MILES CHEMICAL COMPANY
Trans 2 EPA ID:	CAD000032870
Trans 2 Name:	AMERICAN TRUCK LOGISTICS INC
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D007
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170912
Creation Date:	5/30/2018 18:33:46
Receipt Date:	20170918
Manifest ID:	010430862FLE
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECH SOLUTIONS-AZUSA
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200

TAYCO ENGINEERING INC (Continued) **S113012004**

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:	20170912
Creation Date:	5/30/2018 18:33:46
Receipt Date:	20170918
Manifest ID:	010430862FLE
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECH SOLUTIONS-AZUSA
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:	0.3
Waste Quantity:	600
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:	20170912
Creation Date:	5/30/2018 18:33:46
Receipt Date:	20170918
Manifest ID:	010430862FLE
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECH SOLUTIONS-AZUSA
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Shipment Date:	20170912
Creation Date:	10/18/2018 18:30:10
Receipt Date:	20170915
Manifest ID:	010430861FLE
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY BEATTY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170912
Creation Date:	7/13/2018 18:30:08
Receipt Date:	20170922
Manifest ID:	010430859FLE
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENV SERVICES
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170912
Creation Date:	7/13/2018 18:30:08
Receipt Date:	20170922
Manifest ID:	010430859FLE
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	MAD039322250

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans 2 Name:	CLEAN HARBORS ENV SERVICES
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170912
Creation Date:	7/13/2018 18:30:08
Receipt Date:	20170922
Manifest ID:	010430859FLE
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENV SERVICES
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170912
Creation Date:	7/30/2018 18:30:16
Receipt Date:	20170925
Manifest ID:	010430860FLE
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	KSD980633259
Trans Name:	SYSTECH ENVIRONMENTAL CORPORATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F003

TAYCO ENGINEERING INC (Continued) **S113012004**

Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2000
Gen EPA ID:	CAD982004632
Shipment Date:	20001204
Creation Date:	3/5/2001 0:00:00
Receipt Date:	20001205
Manifest ID:	96594884
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.417
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001106
Creation Date:	1/9/2001 0:00:00
Receipt Date:	20001110
Manifest ID:	20508825
Trans EPA ID:	CAD009230244
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD097030993
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.22
Waste Quantity:	440
Quantity Unit:	P
Additional Code 1:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001016
Creation Date:	1/9/2001 0:00:00
Receipt Date:	20001017
Manifest ID:	96594883
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.6255
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000823
Creation Date:	10/30/2000 0:00:00
Receipt Date:	20000824
Manifest ID:	96594882
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.6255
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000821
Creation Date:	10/23/2000 0:00:00
Receipt Date:	20000825
Manifest ID:	20139696

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans EPA ID:	CAD009230244
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD097030993
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.66
Waste Quantity:	1320
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:	20000713
Creation Date:	9/11/2000 0:00:00
Receipt Date:	20000713
Manifest ID:	96594881
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.6255
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000619
Creation Date:	8/28/2000 0:00:00
Receipt Date:	20000623
Manifest ID:	20229261
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics

TAYCO ENGINEERING INC (Continued) **S113012004**

RCRA Code:	D008
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.75
Waste Quantity:	1500
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:	20000524
Creation Date:	8/2/2000 0:00:00
Receipt Date:	20000525
Manifest ID:	96594880
Trans EPA ID:	CAD981446156
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.6255
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000504
Creation Date:	7/12/2000 0:00:00
Receipt Date:	20000510
Manifest ID:	20095175
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional Code 5:	Not reported
Shipment Date:	20000330
Creation Date:	5/30/2000 0:00:00
Receipt Date:	20000330
Manifest ID:	96594879
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.688
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2011
Gen EPA ID:	CAD982004632
Shipment Date:	20111128
Creation Date:	3/13/2012 20:30:11
Receipt Date:	20111201
Manifest ID:	007524112JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS INDUSTRY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111013
Creation Date:	12/27/2011 18:30:48

TAYCO ENGINEERING INC (Continued) **S113012004**

Receipt Date:	20111021
Manifest ID:	007521932JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS INDUSTRY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110926
Creation Date:	12/13/2011 18:30:13
Receipt Date:	20110930
Manifest ID:	007521823JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS INDUSTRY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110919
Creation Date:	11/8/2011 18:30:12
Receipt Date:	20110920
Manifest ID:	002707766JJK
Trans EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans Name:	PHIBROTECH INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110825
Creation Date:	10/25/2011 18:30:13
Receipt Date:	20110902
Manifest ID:	007523937JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS INDUSTRY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110728
Creation Date:	10/19/2011 18:30:23
Receipt Date:	20110805
Manifest ID:	007523872JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS INDUSTRY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.45

TAYCO ENGINEERING INC (Continued) **S113012004**

Waste Quantity:	900
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110714
Creation Date:	10/1/2011 18:30:25
Receipt Date:	20110722
Manifest ID:	007523585JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS INDUSTRY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110627
Creation Date:	7/27/2011 18:30:24
Receipt Date:	20110628
Manifest ID:	002707765JJK
Trans EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Shipment Date:	20110531
Creation Date:	7/23/2011 18:30:24
Receipt Date:	20110603
Manifest ID:	007523303JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS INDUSTRY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20110404
Creation Date:	5/27/2011 18:30:22
Receipt Date:	20110405
Manifest ID:	002707764JJK
Trans EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2012
Gen EPA ID:	CAD982004632

Shipment Date:	20121126
Creation Date:	5/8/2013 22:15:17
Receipt Date:	20121203
Manifest ID:	009967689JJK

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans EPA ID:	CAD983613688
Trans Name:	MILES CHEMICAL COMPANY
Trans 2 EPA ID:	CAD000032870
Trans 2 Name:	AMERICAN TRUCK LI
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D007
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121126
Creation Date:	2/14/2013 22:15:16
Receipt Date:	20121128
Manifest ID:	009345615JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS INDUSTRY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.7
Waste Quantity:	1400
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121001
Creation Date:	12/6/2012 22:15:54
Receipt Date:	20121005
Manifest ID:	009341402JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS INDUSTRY INC
TSDF Alt EPA ID:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.45
Waste Quantity:	900
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120911
Creation Date:	8/22/2013 22:15:07
Receipt Date:	20120917
Manifest ID:	009967165JJK
Trans EPA ID:	CAD983613688
Trans Name:	MILES CHEMICAL COMPANY
Trans 2 EPA ID:	CAD000032870
Trans 2 Name:	AMERICAN TR LOG
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D007
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120723
Creation Date:	9/27/2012 22:15:12
Receipt Date:	20120727
Manifest ID:	009346364JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS INDUSTRY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.45
Waste Quantity:	900

TAYCO ENGINEERING INC (Continued) **S113012004**

Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120723
Creation Date:	1/13/2013 22:15:06
Receipt Date:	20120801
Manifest ID:	007256849JJK
Trans EPA ID:	CAD983613688
Trans Name:	MILES CHEMICAL COMPANY
Trans 2 EPA ID:	CAD000032870
Trans 2 Name:	AMERICAN TRUCK LOC
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D007
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	1.14675
Waste Quantity:	275
Quantity Unit:	G
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120426
Creation Date:	10/19/2012 22:15:22
Receipt Date:	20120430
Manifest ID:	009803663JJK
Trans EPA ID:	CAR000188201
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	CAR000189928
Trans 2 Name:	NV TRANSPORT
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	261 - Not reported
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Shipment Date:	20120322
Creation Date:	5/24/2012 20:30:20
Receipt Date:	20120330
Manifest ID:	009348143JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS INDUSTRY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.7
Waste Quantity:	1400
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120215
Creation Date:	4/17/2012 20:30:11
Receipt Date:	20120217
Manifest ID:	009346531JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS INDUSTRY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.275
Waste Quantity:	550
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120119
Creation Date:	12/3/2012 22:16:30
Receipt Date:	20120208
Manifest ID:	009244260JJK
Trans EPA ID:	CAR000188201
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	MAD039322250

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans 2 Name:	CLEAN HARBORS ENV SVS
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.015
Waste Quantity:	30
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2008
Gen EPA ID:	CAD982004632
Shipment Date:	20081203
Creation Date:	1/15/2009 18:30:08
Receipt Date:	20081205
Manifest ID:	004864244JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081020
Creation Date:	12/11/2008 18:30:37
Receipt Date:	20081024
Manifest ID:	004402620JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP

TAYCO ENGINEERING INC (Continued) **S113012004**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081016
Creation Date:	11/17/2008 18:30:08
Receipt Date:	20081017
Manifest ID:	002707749JJK
Trans EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
Trans 2 EPA ID:	CAD008488025
Trans 2 Name:	PHIBROTECH INC
TSDF EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080924
Creation Date:	11/3/2008 18:30:32
Receipt Date:	20080926
Manifest ID:	004404904JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500

TAYCO ENGINEERING INC (Continued) **S113012004**

Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080903
Creation Date:	12/16/2008 18:30:20
Receipt Date:	20080915
Manifest ID:	004214728JJK
Trans EPA ID:	CAR000188201
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080903
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	004214728JJK
Trans EPA ID:	CAR000188201
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Shipment Date:	20080903
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	004214728JJK
Trans EPA ID:	CAR000188201
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D007
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0125
Waste Quantity:	25
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20080903
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	004214728JJK
Trans EPA ID:	CAR000188201
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	- 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

Shipment Date:	20080903
Creation Date:	12/16/2008 18:30:20
Receipt Date:	20080915
Manifest ID:	004214728JJK
Trans EPA ID:	CAR000188201
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS

TAYCO ENGINEERING INC (Continued) **S113012004**

TSDF EPA ID: CAD044429835
Trans Name: CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: D002
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.0025
Waste Quantity: 5
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: 20080903
Creation Date: 12/16/2008 18:30:20
Receipt Date: 20080915
Manifest ID: 004214728JJK
Trans EPA ID: CAR000188201
Trans Name: ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID: MAD039322250
Trans 2 Name: CLEAN HARBORS
TSDF EPA ID: CAD044429835
Trans Name: CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: D001
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.1815
Waste Quantity: 55
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2014
Gen EPA ID: CAD982004632

Shipment Date: 20141216
Creation Date: 5/18/2015 22:15:16
Receipt Date: 20141222
Manifest ID: 013696866JJK
Trans EPA ID: CAD983613688
Trans Name: MILES CHEMICAL COMPANY
Trans 2 EPA ID: CAD000032870
Trans 2 Name: AMERICAN TRUCK
TSDF EPA ID: NVT330010000
Trans Name: US ECOLOGY NEVADA INC
TSDF Alt EPA ID: Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D007
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141106
Creation Date:	5/18/2015 22:15:16
Receipt Date:	20141110
Manifest ID:	013004274JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	KSD980633259
Trans Name:	SYSTECH ENVIRONMENTAL CORPORATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141106
Creation Date:	5/18/2015 22:15:16
Receipt Date:	20141110
Manifest ID:	013004274JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	KSD980633259
Trans Name:	SYSTECH ENVIRONMENTAL CORPORATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100

TAYCO ENGINEERING INC (Continued) **S113012004**

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:	20141106
Creation Date:	6/26/2015 22:15:35
Receipt Date:	20141112
Manifest ID:	013004275JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY BEATTY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141106
Creation Date:	6/26/2015 22:15:35
Receipt Date:	20141112
Manifest ID:	013004275JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY BEATTY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.55
Waste Quantity:	1100
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Shipment Date:	20141014
Creation Date:	5/5/2015 22:15:14
Receipt Date:	20141020
Manifest ID:	012852853JJK
Trans EPA ID:	CAD983613688
Trans Name:	MILES CHEMICAL COMPANY
Trans 2 EPA ID:	CAD000032870
Trans 2 Name:	AMERICAN TRUCK LOGISTICS
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D007
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20140806
Creation Date:	11/11/2014 22:15:12
Receipt Date:	20140815
Manifest ID:	000889160VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.13
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:	20140806
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000889160VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	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:	0.5
Waste Quantity:	1000
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:	20140806
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000889160VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	513 - Empty containers less than 30 gallons
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140806
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000889160VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002

TAYCO ENGINEERING INC (Continued) **S113012004**

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

Additional Info:
Year: 2006
Gen EPA ID: CAD982004632

Shipment Date: 20061214
Creation Date: 4/19/2007 18:31:22
Receipt Date: 20061215
Manifest ID: 001677402JJK
Trans EPA ID: CAR000047696
Trans Name: UNIVAR USA INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD097030993
Trans Name: SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 181 - Other inorganic solid waste Organics
RCRA Code: F006
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.3
Waste Quantity: 600
Quantity Unit: P
Additional Code 1: D008
Additional Code 2: D007
Additional Code 3: D006
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20061016
Creation Date: 4/19/2007 18:30:43
Receipt Date: 20061017
Manifest ID: 000090431JJK
Trans EPA ID: CAD008488025
Trans Name: PHIBROTECH INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008488025
Trans Name: PHIBROTECH INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 792 - Not reported
RCRA Code: D002
Meth Code: H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Quantity Tons: 0.68805
Waste Quantity: 165

TAYCO ENGINEERING INC (Continued) **S113012004**

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:	20061012
Creation Date:	3/30/2007 13:33:40
Receipt Date:	20061013
Manifest ID:	001677100JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES (CA) INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060831
Creation Date:	11/21/2006 18:30:26
Receipt Date:	20060901
Manifest ID:	23579612
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES CA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.4
Waste Quantity:	800
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:	20060615

TAYCO ENGINEERING INC (Continued) **S113012004**

Creation Date:	8/25/2006 18:37:06
Receipt Date:	20060616
Manifest ID:	25172744
Trans EPA ID:	CAD000032870
Trans Name:	AMERICAN TRUCKING CO
Trans 2 EPA ID:	CAR000047696
Trans 2 Name:	UNIVAR USA INC
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES CA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H01 - Transfer Station
Quantity Tons:	3.9615
Waste Quantity:	950
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:	20060503
Creation Date:	8/4/2006 18:31:20
Receipt Date:	20060503
Manifest ID:	22301319
Trans EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060428
Creation Date:	12/20/2006 18:30:44
Receipt Date:	20060505
Manifest ID:	25104638
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES CA INC

TAYCO ENGINEERING INC (Continued) **S113012004**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.5
Waste Quantity:	1000
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:	20060327
Creation Date:	7/27/2006 18:38:26
Receipt Date:	20060331
Manifest ID:	25105710
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES CA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.5
Waste Quantity:	1000
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:	20060213
Creation Date:	6/14/2006 18:34:03
Receipt Date:	20060217
Manifest ID:	25105463
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES CA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060130
Creation Date:	5/6/2006 18:30:32
Receipt Date:	20060203
Manifest ID:	24150626
Trans EPA ID:	CAR000129759
Trans Name:	HAZARDOUS WASTE TRANSPORTATION SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0294
Waste Quantity:	7
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:	2016
Gen EPA ID:	CAD982004632
Shipment Date:	20151026
Creation Date:	5/4/2016 22:15:42
Receipt Date:	20151102
Manifest ID:	014314074JJK
Trans EPA ID:	CAD983613688
Trans Name:	MILES CHEMICAL COMPANY
Trans 2 EPA ID:	CAD000032870
Trans 2 Name:	AMERICAN TRUCK LOGISTICS INC
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D007
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Shipment Date:	20150806
Creation Date:	1/20/2016 22:15:50
Receipt Date:	20150825
Manifest ID:	014368389JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150806
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	014368389JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.01
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:	20150806
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	014368389JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	UTD981552177

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans Name:	CLEAN HARBORS ARAGONITE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150806
Creation Date:	1/20/2016 22:15:50
Receipt Date:	20150825
Manifest ID:	014368389JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D007
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0075
Waste Quantity:	15
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:	20150806
Creation Date:	1/20/2016 22:15:50
Receipt Date:	20150825
Manifest ID:	014368389JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional 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:	20150806
Creation Date:	1/20/2016 22:15:50
Receipt Date:	20150825
Manifest ID:	014368389JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150730
Creation Date:	2/4/2016 22:16:03
Receipt Date:	20150804
Manifest ID:	014368360JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY BEATTY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.66
Waste Quantity:	1320
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150730
Creation Date:	2/11/2016 22:15:11

TAYCO ENGINEERING INC (Continued) **S113012004**

Receipt Date:	20150810
Manifest ID:	014368361JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	KSD980633259
Trans Name:	SYSTECH ENVIRONMENTAL CORPORATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.165
Waste Quantity:	330
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:	20150730
Creation Date:	2/4/2016 22:16:03
Receipt Date:	20150804
Manifest ID:	014368360JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY BEATTY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.165
Waste Quantity:	330
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:	2013
Gen EPA ID:	CAD982004632

Shipment Date:	20131218
Creation Date:	5/14/2014 22:15:08
Receipt Date:	20131223
Manifest ID:	009970640JJK
Trans EPA ID:	CAD983613688

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans Name:	MILES CHEMICAL COMPANY
Trans 2 EPA ID:	CAD000032870
Trans 2 Name:	AMERICAN TRUCK LOGISTICS INC
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D007
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131212
Creation Date:	2/24/2014 22:15:29
Receipt Date:	20131220
Manifest ID:	012577799JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131119
Creation Date:	1/8/2014 22:15:18
Receipt Date:	20131122
Manifest ID:	012572963JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.44
Waste Quantity:	880
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131028
Creation Date:	12/4/2013 22:15:18
Receipt Date:	20131101
Manifest ID:	011227086JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.275
Waste Quantity:	550
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131028
Creation Date:	6/10/2014 22:15:04
Receipt Date:	20131105
Manifest ID:	009970230JJK
Trans EPA ID:	CAD983613688
Trans Name:	MILES CHEMICAL COMPANY
Trans 2 EPA ID:	CAL000375950
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D007
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130919
Creation Date:	10/31/2013 22:15:06
Receipt Date:	20130927
Manifest ID:	011227105JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.325
Waste Quantity:	650
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130711
Creation Date:	9/9/2013 22:15:10
Receipt Date:	20130719
Manifest ID:	009865440JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.325
Waste Quantity:	650
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130501

TAYCO ENGINEERING INC (Continued) **S113012004**

Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000649346VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D007
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20130501
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000649346VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	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:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20130501
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000649346VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

TSDF EPA ID: CAD008302903
Trans Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 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: 0.2
Waste Quantity: 400
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: 1999
Gen EPA ID: CAD982004632

Shipment Date: 19991215
Creation Date: 3/7/2000 0:00:00
Receipt Date: 19991222
Manifest ID: 99765656
Trans EPA ID: CAD028277036
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080033681
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 181 - Other inorganic solid waste Organics
RCRA Code: D008
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 0.7
Waste Quantity: 1400
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: 19991206
Creation Date: 2/1/2000 0:00:00
Receipt Date: 19991206
Manifest ID: 96594877
Trans EPA ID: NJD986619328
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008488025
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.6255
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991020
Creation Date:	12/17/1999 0:00:00
Receipt Date:	19991020
Manifest ID:	96594876
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.6255
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990915
Creation Date:	11/22/1999 0:00:00
Receipt Date:	19990920
Manifest ID:	99492038
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990915
Creation Date:	11/22/1999 0:00:00
Receipt Date:	19990920
Manifest ID:	99492038
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.004
Waste Quantity:	8
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:	19990915
Creation Date:	11/22/1999 0:00:00
Receipt Date:	19990920
Manifest ID:	99492039
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD028409019
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
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:	19990915
Creation Date:	11/22/1999 0:00:00
Receipt Date:	19990920
Manifest ID:	99492039
Trans EPA ID:	CA0000970392
Trans Name:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD028409019
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.015
Waste Quantity:	30
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990915
Creation Date:	11/22/1999 0:00:00
Receipt Date:	19990927
Manifest ID:	99492040
Trans EPA ID:	CA0000970392
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:	0.114
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990915
Creation Date:	11/18/1999 0:00:00
Receipt Date:	19990917
Manifest ID:	99492041
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	R01 - Recycler

TAYCO ENGINEERING INC (Continued) **S113012004**

Quantity Tons:	0
Waste Quantity:	55
Quantity Unit:	*
Additional 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:	19990915
Creation Date:	11/22/1999 0:00:00
Receipt Date:	19990920
Manifest ID:	99492038
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.004
Waste Quantity:	8
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:	1996
Gen EPA ID:	CAD982004632
Shipment Date:	19961016
Creation Date:	5/21/1997 0:00:00
Receipt Date:	19961016
Manifest ID:	96594852
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.417
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960924
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961002
Manifest ID:	95852208
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD049318009
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D006
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2
Waste Quantity:	400
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:	19960626
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19960626
Manifest ID:	95805202
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960529
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19960604
Manifest ID:	95851230
Trans EPA ID:	CAD000083121

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans Name:	Not reported
Trans 2 EPA ID:	ARD981908551
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD049318009
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	*** - Not reported
RCRA Code:	D006
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2
Waste Quantity:	400
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:	19960416
Creation Date:	5/21/1997 0:00:00
Receipt Date:	19960425
Manifest ID:	95199211
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD049318009
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D004
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.175
Waste Quantity:	350
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:	19960327
Creation Date:	10/16/1996 0:00:00
Receipt Date:	19960327
Manifest ID:	93142713
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002

TAYCO ENGINEERING INC (Continued) **S113012004**

Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.834
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960301
Creation Date:	10/16/1996 0:00:00
Receipt Date:	19960305
Manifest ID:	95899162
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0208
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960301
Creation Date:	10/16/1996 0:00:00
Receipt Date:	19960305
Manifest ID:	95899162
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Shipment Date:	19960301
Creation Date:	10/16/1996 0:00:00
Receipt Date:	19960305
Manifest ID:	95899162
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19960301
Creation Date:	10/4/1996 0:00:00
Receipt Date:	19960304
Manifest ID:	95899165
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.2
Waste Quantity:	400
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:	CAD982004632

Shipment Date:	20151026
Creation Date:	5/4/2016 22:15:42
Receipt Date:	20151102
Manifest ID:	014314074JJK
Trans EPA ID:	CAD983613688

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans Name:	MILES CHEMICAL COMPANY
Trans 2 EPA ID:	CAD000032870
Trans 2 Name:	AMERICAN TRUCK LOGISTICS INC
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D007
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150806
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	014368389JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150806
Creation Date:	1/20/2016 22:15:50
Receipt Date:	20150825
Manifest ID:	014368389JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap

TAYCO ENGINEERING INC (Continued) **S113012004**

RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150806
Creation Date:	1/20/2016 22:15:50
Receipt Date:	20150825
Manifest ID:	014368389JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150806
Creation Date:	1/20/2016 22:15:50
Receipt Date:	20150825
Manifest ID:	014368389JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D007
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional Code 5:	Not reported
Shipment Date:	20150806
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	014368389JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.01
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:	20150806
Creation Date:	1/20/2016 22:15:50
Receipt Date:	20150825
Manifest ID:	014368389JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150730
Creation Date:	2/11/2016 22:15:11
Receipt Date:	20150810
Manifest ID:	014368361JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	KSD980633259
Trans Name:	SYSTECH ENVIRONMENTAL CORPORATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F003
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.165
Waste Quantity:	330
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:	20150730
Creation Date:	2/4/2016 22:16:03
Receipt Date:	20150804
Manifest ID:	014368360JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY BEATTY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.66
Waste Quantity:	1320
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150730
Creation Date:	2/4/2016 22:16:03
Receipt Date:	20150804
Manifest ID:	014368360JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY BEATTY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.165
Waste Quantity:	330
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1993
Gen EPA ID:	CAD982004632
Shipment Date:	19931201
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931201
Manifest ID:	92025722
Trans EPA ID:	CAD008488025
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19931123
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931129
Manifest ID:	93204064
Trans EPA ID:	CAD982481939
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080010101
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional 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:	19931123
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931129
Manifest ID:	93204064
Trans EPA ID:	CAD982481939
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080010101
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.198
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19931104
Creation Date:	9/12/1995 0:00:00
Receipt Date:	Not reported
Manifest ID:	93204046
Trans EPA ID:	CAD982481939
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080010101
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.0625
Waste Quantity:	125
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930915
Creation Date:	9/12/1995 0:00:00
Receipt Date:	19930915

TAYCO ENGINEERING INC (Continued) **S113012004**

Manifest ID:	92025721
Trans EPA ID:	CAD008488025
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.688
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19930503
Creation Date:	9/8/1995 0:00:00
Receipt Date:	19930503
Manifest ID:	88369125
Trans EPA ID:	CAD008488025
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19930421
Creation Date:	9/6/1995 0:00:00
Receipt Date:	19930421
Manifest ID:	88369123
Trans EPA ID:	CAD008488025
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD00848825
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930308
Creation Date:	9/7/1995 0:00:00
Receipt Date:	19930308
Manifest ID:	88369124
Trans EPA ID:	CAD008488025
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD00848825
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930113
Creation Date:	9/5/1995 0:00:00
Receipt Date:	19930113
Manifest ID:	88369122
Trans EPA ID:	CAD008488025
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0
Waste Quantity:	110
Quantity Unit:	*
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2004
Gen EPA ID: CAD982004632

Shipment Date: Not reported
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 22268394
Trans EPA ID: CAD009452657
Trans Name: ROMIC ENVIRONMENTAL TECHNOLOGIES
Trans 2 EPA ID: OKD981588791
Trans 2 Name: TRIAD TRANSPORT INC
TSDF EPA ID: AZD009015389
Trans Name: ROMIC ENVIRONMENTAL
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: T03 - Treatment, Incineration
Quantity Tons: 0.1
Waste Quantity: 200
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20041201
Creation Date: 2/17/2005 18:32:22
Receipt Date: 20041203
Manifest ID: 24182092
Trans EPA ID: CAR000047696
Trans Name: UNIVAR USA INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD097030993
Trans Name: US FILTER RECOVERY SERVICES CA INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 181 - Other inorganic solid waste Organics
RCRA Code: F006
Meth Code: D99 - Disposal, Other
Quantity Tons: 0.68805
Waste Quantity: 165
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20041111
Creation Date: 1/20/2005 18:31:32

TAYCO ENGINEERING INC (Continued) **S113012004**

Receipt Date:	20041112
Manifest ID:	24075211
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES CA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20041104
Creation Date:	1/14/2005 10:18:48
Receipt Date:	20041105
Manifest ID:	24075256
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES CA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20041101
Creation Date:	1/14/2005 10:18:48
Receipt Date:	20041101
Manifest ID:	22301309
Trans EPA ID:	CAD008488025
Trans Name:	PHIBRO TECH INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	PHIBRO TECH INC
TSDF Alt EPA ID:	CAD008488025

TAYCO ENGINEERING INC (Continued) **S113012004**

TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.7506
Waste Quantity:	180
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:	20040916
Creation Date:	3/16/2007 18:31:12
Receipt Date:	20040923
Manifest ID:	24076263
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENV SVCS LLC AZUSA
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	0.114
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040916
Creation Date:	3/16/2007 18:31:12
Receipt Date:	20040923
Manifest ID:	24076263
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENV SVCS LLC AZUSA
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	0.102
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040916
Creation Date:	1/11/2005 18:31:27
Receipt Date:	20040930
Manifest ID:	24076262
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	ENGLUND EQUIPMENT CO
TSDF EPA ID:	AZD009015389
Trans Name:	ROMIC ENVIRONMENTAL TECHNOLOGIES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	T03 - Treatment, Incineration
Quantity Tons:	0.06255
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040916
Creation Date:	1/11/2005 18:31:27
Receipt Date:	20041005
Manifest ID:	24076260
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	CAR000075424
Trans 2 Name:	ENVIRO-GUARD
TSDF EPA ID:	IND000646943
Trans Name:	POLLUTION CONTROL INDUSTRIES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040916
Creation Date:	12/22/2004 18:31:08
Receipt Date:	20040917
Manifest ID:	24076174
Trans EPA ID:	CAR000047696

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICES CA INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1998
Gen EPA ID:	CAD982004632
Shipment Date:	19981214
Creation Date:	2/2/1999 0:00:00
Receipt Date:	19981214
Manifest ID:	96594869
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.417
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981111
Creation Date:	1/13/1999 0:00:00
Receipt Date:	19981111
Manifest ID:	96594868
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	1.0425
Waste Quantity:	250
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:	19981109
Creation Date:	1/13/1999 0:00:00
Receipt Date:	19981113
Manifest ID:	98506711
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.6
Waste Quantity:	1200
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:	19980817
Creation Date:	12/10/1998 0:00:00
Receipt Date:	19980817
Manifest ID:	96594866
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.6255
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980729
Creation Date:	9/15/1998 0:00:00
Receipt Date:	19980731
Manifest ID:	98085719
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0208
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980729
Creation Date:	9/15/1998 0:00:00
Receipt Date:	19980731
Manifest ID:	98085719
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980729
Creation Date:	9/15/1998 0:00:00
Receipt Date:	19980731

TAYCO ENGINEERING INC (Continued) **S113012004**

Manifest ID:	98085718
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	*** - Not reported
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19980729
Creation Date:	9/15/1998 0:00:00
Receipt Date:	19980731
Manifest ID:	98085718
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.102
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19980729
Creation Date:	9/15/1998 0:00:00
Receipt Date:	19980731
Manifest ID:	98085718
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2
Waste Quantity:	400
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:	19980729
Creation Date:	10/20/1998 0:00:00
Receipt Date:	19980811
Manifest ID:	98085717
Trans EPA ID:	CA0000970392
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2010
Gen EPA ID:	CAD982004632
Shipment Date:	20101206
Creation Date:	5/20/2011 18:30:13
Receipt Date:	20101213
Manifest ID:	008050034JJK
Trans EPA ID:	CAR000188201
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.22935

TAYCO ENGINEERING INC (Continued) **S113012004**

Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101129
Creation Date:	1/12/2011 18:30:24
Receipt Date:	20101130
Manifest ID:	002707758JJK
Trans EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101129
Creation Date:	1/12/2011 18:30:38
Receipt Date:	20101203
Manifest ID:	006862759JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Shipment Date:	20101026
Creation Date:	1/3/2011 18:31:02
Receipt Date:	20101029
Manifest ID:	006909919JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20101005
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007703020JJK
Trans EPA ID:	CAR000188201
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0125
Waste Quantity:	25
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20101005
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007703020JJK
Trans EPA ID:	CAR000188201
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	MAD039322250

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON 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:	0.0125
Waste Quantity:	25
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101005
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007703020JJK
Trans EPA ID:	CAR000188201
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D007
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101005
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007703020JJK
Trans EPA ID:	CAR000188201
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D002

TAYCO ENGINEERING INC (Continued) **S113012004**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101005
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007703020JJK
Trans EPA ID:	CAR000188201
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101005
Creation Date:	3/3/2011 18:30:18
Receipt Date:	20101008
Manifest ID:	007703022JJK
Trans EPA ID:	CAR000188201
Trans Name:	ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID:	CAR000189928
Trans 2 Name:	NV TRANSPORT
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
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:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2002
Gen EPA ID: CAD982004632

Shipment Date: 20021113
Creation Date: 2/13/2003 18:31:35
Receipt Date: 20021113
Manifest ID: 96594896
Trans EPA ID: NJD986619328
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008488025
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 792 - Not reported
RCRA Code: D002
Meth Code: R01 - Recycler
Quantity Tons: 0.6255
Waste Quantity: 150
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20020909
Creation Date: 1/28/2003 18:31:46
Receipt Date: 20020909
Manifest ID: 96594895
Trans EPA ID: NJD986619328
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008488025
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 792 - Not reported
RCRA Code: D002
Meth Code: R01 - Recycler
Quantity Tons: 0.4587
Waste Quantity: 110
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20020904

TAYCO ENGINEERING INC (Continued) **S113012004**

Creation Date:	2/18/2003 18:31:24
Receipt Date:	20020919
Manifest ID:	21026133
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD009015389
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20020904
Creation Date:	1/28/2003 18:30:41
Receipt Date:	20020905
Manifest ID:	21026225
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.114
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20020904
Creation Date:	1/28/2003 18:30:41
Receipt Date:	20020905
Manifest ID:	21026225
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.102
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020904
Creation Date:	2/18/2003 18:31:24
Receipt Date:	20020919
Manifest ID:	21026133
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	AZD982403586
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD009015389
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020904
Creation Date:	1/27/2003 18:32:25
Receipt Date:	20020911
Manifest ID:	21026132
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	CAD010925576
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.0417
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020904
Creation Date:	1/28/2003 18:30:41
Receipt Date:	20020905
Manifest ID:	21026225
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.114
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020807
Creation Date:	3/13/2003 18:31:17
Receipt Date:	20020807
Manifest ID:	96594894
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020516
Creation Date:	7/17/2002 18:35:51
Receipt Date:	20020517
Manifest ID:	21865050

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans EPA ID: CAR000047696
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD097030993
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 181 - Other inorganic solid waste Organics
RCRA Code: F006
Meth Code: D99 - Disposal, Other
Quantity Tons: 0.44
Waste Quantity: 880
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2003
Gen EPA ID: CAD982004632

Shipment Date: 20031006
Creation Date: 8/3/2004 15:00:31
Receipt Date: 20031006
Manifest ID: 22301303
Trans EPA ID: NJD986619328
Trans Name: PHIBRO TECH INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008488025
Trans Name: PHIBRO TECH INC
TSDF Alt EPA ID: CAD008488025
TSDF Alt Name: Not reported
Waste Code Description: 792 - Not reported
RCRA Code: D002
Meth Code: R01 - Recycler
Quantity Tons: 0.417
Waste Quantity: 100
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20030902
Creation Date: 7/29/2004 7:45:24
Receipt Date: 20030905
Manifest ID: 22859387
Trans EPA ID: CAR000047696
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD097030993

TAYCO ENGINEERING INC (Continued) **S113012004**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.5
Waste Quantity:	1000
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:	20030812
Creation Date:	7/29/2004 7:43:54
Receipt Date:	20030812
Manifest ID:	22301302
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.6255
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030714
Creation Date:	7/23/2004 9:17:57
Receipt Date:	20030714
Manifest ID:	22301300
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional 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:	20030428
Creation Date:	7/20/2004 12:51:42
Receipt Date:	20030524
Manifest ID:	22414050
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	CAD010925576
Trans 2 Name:	Not reported
TSDF EPA ID:	IND000646943
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4
Waste Quantity:	800
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:	20030410
Creation Date:	5/9/2007 18:30:21
Receipt Date:	20030410
Manifest ID:	96594899
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.6255
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030331
Creation Date:	6/22/2003 18:31:12
Receipt Date:	20030404

TAYCO ENGINEERING INC (Continued) **S113012004**

Manifest ID:	22690339
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.5
Waste Quantity:	1000
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:	20030303
Creation Date:	1/5/2007 18:30:36
Receipt Date:	20030303
Manifest ID:	96594897
Trans EPA ID:	NJD986619328
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.6255
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20030130
Creation Date:	5/21/2003 18:32:18
Receipt Date:	20030131
Manifest ID:	22262190
Trans EPA ID:	CAR000047696
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.44
Waste Quantity:	880
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:	1994
Gen EPA ID:	CAD982004632
Shipment Date:	19941222
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19941223
Manifest ID:	92850160
Trans EPA ID:	CAD983646589
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19941222
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19941223
Manifest ID:	92850160
Trans EPA ID:	CAD983646589
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2293
Waste Quantity:	55

TAYCO ENGINEERING INC (Continued) **S113012004**

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:	19941222
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19941223
Manifest ID:	92850160
Trans EPA ID:	CAD983646589
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19941221
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19941223
Manifest ID:	92851140
Trans EPA ID:	CAD983646589
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19941221
Creation Date:	3/28/1996 0:00:00

TAYCO ENGINEERING INC (Continued) **S113012004**

Receipt Date:	19941223
Manifest ID:	92851140
Trans EPA ID:	CAD983646589
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19941221
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19941223
Manifest ID:	92851140
Trans EPA ID:	CAD983646589
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
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:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19941221
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19941223
Manifest ID:	92851140
Trans EPA ID:	CAD983646589
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD000088252
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19941201
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19941203
Manifest ID:	95299664
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD049318009
Trans Name:	Not reported
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:	H01 - Transfer Station
Quantity Tons:	0.1875
Waste Quantity:	375
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:	19941130
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19941201
Manifest ID:	92025727
Trans EPA ID:	CAD008488025
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008488025
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940928
Creation Date:	3/26/1996 0:00:00
Receipt Date:	19940928
Manifest ID:	92025729
Trans EPA ID:	CAD008488025
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.688
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2007
Gen EPA ID:	CAD982004632
Shipment Date:	20071220
Creation Date:	3/6/2008 18:30:13
Receipt Date:	20071221
Manifest ID:	003513342JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Shipment Date:	20071204
Creation Date:	3/4/2008 18:30:41
Receipt Date:	20071206
Manifest ID:	003513003JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20071119
Creation Date:	2/4/2008 18:30:26
Receipt Date:	20071120
Manifest ID:	002707743JJK
Trans EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20071017
Creation Date:	1/8/2008 18:30:22
Receipt Date:	20071019
Manifest ID:	003008218JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.55
Waste Quantity:	1100
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070830
Creation Date:	11/5/2007 18:30:51
Receipt Date:	20070831
Manifest ID:	001933384JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070822
Creation Date:	1/9/2008 18:30:06
Receipt Date:	20070823
Manifest ID:	002707742JJK
Trans EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect

TAYCO ENGINEERING INC (Continued) **S113012004**

Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070816
Creation Date:	1/8/2008 18:30:29
Receipt Date:	20070817
Manifest ID:	001933210JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070801
Creation Date:	12/28/2007 18:31:22
Receipt Date:	20070803
Manifest ID:	003013370JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Additional Code 5:	Not reported
Shipment Date:	20070614
Creation Date:	10/23/2007 18:30:22
Receipt Date:	20070615
Manifest ID:	001932285JJK
Trans EPA ID:	CAR000047696
Trans Name:	UNIVAR USA INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	F006
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070517
Creation Date:	10/10/2007 18:30:16
Receipt Date:	20070518
Manifest ID:	002707651JJK
Trans EPA ID:	CAD008488025
Trans Name:	PHIBRO TECH INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008488025
Trans Name:	PHIBROTECH INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D002
Meth Code:	H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

NPDES:

Name:	TAYCO ENGINEERING INC
Address:	10874 HOPE ST
City,State,Zip:	CYPRESS, CA 90630
Facility Status:	Not reported
NPDES Number:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 30NEC003389
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:	Active
Status Date:	07/17/2017
Operator Name:	Tayco Engineering Inc
Operator Address:	10874 Hope Street
Operator City:	Cypress
Operator State:	California
Operator Zip:	90630

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	488081
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 30NEC003389
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/17/2017
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Tayco Engineering, Inc
Discharge Address:	10874 Hope Street
Discharge City:	Cypress
Discharge State:	California
Discharge Zip:	90630
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	TAYCO ENGINEERING INC
Address:	10874 HOPE ST
City,State,Zip:	CYPRESS, CA 90630
Facility Status:	Active
NPDES Number:	CAS000001
Region:	8
Agency Number:	0
Regulatory Measure ID:	488081
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	8 30NEC003389
Regulatory Measure Type:	Enrollee

TAYCO ENGINEERING INC (Continued) **S113012004**

Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/17/2017
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	10874 Hope Street
Discharge Name:	Tayco Engineering, Inc
Discharge City:	Cypress
Discharge State:	California
Discharge Zip:	90630
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	488081
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 30NEC003389
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/17/2017
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Tayco Engineering, Inc
Discharge Address:	10874 Hope Street
Discharge City:	Cypress
Discharge State:	California
Discharge Zip:	90630
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Name:	TAYCO ENGINEERING INC
Address:	10874 HOPE ST
City,State,Zip:	CYPRESS, CA 90630
Agency:	Tayco Engineering, Inc
Agency Address:	10874 Hope Street 10874 Hope Street, Cypress, CA 90630
Place/Project Type:	Industrial - Aircraft
SIC/NAICS:	3721
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 30NEC003389
NPDES Number:	CAS000001
Adoption Date:	01/01/1900
Effective Date:	07/17/2017
Termination Date:	01/01/1900
Expiration/Review Date:	01/01/1900

TAYCO ENGINEERING INC (Continued) **S113012004**

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: 33.80441
Longitude: -118.02336

CERS:
Name: TAYCO ENGINEERING INC
Address: 10874 HOPE ST
City,State,Zip: CYPRESS, CA 90630
Site ID: 363815
CERS ID: 856611
CERS Description: Industrial Facility Storm Water

Violations:
Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-22-2019
Citation: 22 CCR 45 67450.3(c)(9)(F) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(9)(F)
Violation Description: Failure of generator to obtain assessment or reassessment every five (5) years or the remaining service life of the tank system, as stated in the engineer's assessment, whichever is less. This assessment applies to onground or aboveground tank systems containing only non-RCRA hazardous wastes generated onsite, and tank systems authorized under Permit-by-Rule, Conditional Authorization, and Conditional Exemption or for a small quantity generator onground or aboveground tank systems containing RCRA hazardous wastes generated onsite.
Violation Notes: Returned to compliance on 09/30/2019. OBSERVATION: PE certification dated 4/19/19 does not include 'corrosive' for the hazardous characteristics of handled waste. CORRECTIVE ACTION: Submit updated PE certification to this Agency within 60 days.
Violation Division: Orange County Environmental Health
Violation Program: PBR
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-31-2017
Citation: 22 CCR 15 66265.177 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.177
Violation Description: Failure to separate incompatible wastes from the same container, nearby containers, or unwashed containers which previously contained incompatible waste or materials.
Violation Notes: Returned to compliance on 10/19/2017. The facility stored waste Hydrochloric Acid mixed with Hydrofluoric acid next to a container of waste Potassium Hydroxide and above a shared secondary containment pallet. These chemicals are incompatible and must not be stored next to each other nor sharing secondary containment. Immediately move the two waste streams away from each other and store them above separate secondary containment.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG

TAYCO ENGINEERING INC (Continued) **S113012004**

Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 10-28-2020
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers 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: OBSERVATION: The labels on the following containers of hazardous waste were non-compliant: (corrected on site): - Two containers of alcohol wipes/towels located in the Hard Heater area were not emptied nightly as indicated on the container. Per the area supervisor, the containers were not emptied the night prior to the inspection. - 55-gal container of waste filters was missing the hazardous property - 55-gal container of blue film waste was missing the physical state and hazardous property - 55 gal container of waste towels was missing the physical state and hazardous property The labels on the following containers of hazardous waste were non-compliant: (NOT corrected on site): - Several containers of alcohol wipes/towels were missing the physical state and hazardous property - Several containers of alcohol wipes/towels were marked with both an accumulation start date and G Empty Every NightG - 5-gal container of waste Oakite had the incorrect [Truncated]
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 10-28-2020
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: OBSERVATION: The chemical inventory in CERS requires amendments. CORRECTIVE ACTION: Review comments, revise, and resubmit within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 05-07-2014
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description: Failure to properly close hazardous waste containers when not in active use.
Violation Notes: Returned to compliance on 06/05/2014. All containers must be kept closed when storing hazardous waste. Containers storing Liquid/slurry must be sealed. Containers storing solids must have a lid covering the waste.
Violation Division: Orange County Environmental Health
Violation Program: HW

TAYCO ENGINEERING INC (Continued) **S113012004**

Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 10-28-2020
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: OBSERVATION: The business failed to complete and electronically submit a site map with all required content including: north orientation, loading area, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shut offs, evacuation staging area, hazardous materials/waste storage areas and emergency response equipment. CORRECTIVE ACTION: Review comments in CERS, and update site map to include all required elements. Submit in CERS within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 05-07-2014
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 06/05/2014. An accumulation date must be stated on the hazardous waste label as soon as any waste is place in the container.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 05-07-2014
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 06/05/2014. All containers storing hazardous waste must be labeled with the required information.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 07-14-2014
Citation: 22 CCR 45 67450.2(c)(10) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.2(c)(10)

TAYCO ENGINEERING INC (Continued) **S113012004**

Violation Description:	Failure of the generator to prepare, maintain, and submit to CUPA an annual report containing the following information: (A) The serial number(s) of the FTU(s) involved in treatment; (B) The physical and mailing address of the business entity which owns or operates the FTU(s); (C) The name, title and telephone number of each FTU contact person; (D) The name and address or legal description of the facility; (E) The facility identification number; (F) The number of days each FTU was operated; (G) The quantity of hazardous waste(s) treated by each FTU; (H) The composition and hazardous characteristics of the influent hazardous waste(s); (I) The treatment method(s) used for each hazardous waste treated by each FTU; (J) The quantity, composition and hazardous characteristic(s) of any treatment effluent or residual discharged from each FTU to a POTW, if applicable; and (K) The quantity, composition, hazardous characteristic(s) and disposition of any FTU treatment effluent or residual that was not discharged to a POTW, if applicable.
Violation Notes:	Due to the absence of a waste evaluation, the facility has not been regulated in the correct Tier. Based on analytical results from grab samples collected from the pretreament holding tanks, the facility should be regulated as a Permit By Rule facility. Please re-submit notification forms electronically via the E-submit Portal indicating the proper tier to this agency immediately.
Violation Division:	Orange County Environmental Health
Violation Program:	CA
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	08-31-2017
Citation:	22 CCR 45 67450.3(c)(8) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(8)
Violation Description:	Failure to maintain the required documents at the facility where the FTU is operating and upon request make these documents available to authorized agency, DTSC, the CUPA, or EPA, or local government agency.
Violation Notes:	Returned to compliance on 10/19/2017. The Waste Analysis plan is incomplete and does not meet the elements listed in 22 CCR 66265.13 . Ensure the Waste Analysis plan is complete and a copy of the revised Waste Analysis Plan is submitted to this agency within 30 days from receiving this report.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	10-28-2020
Citation:	22 CCR 15 66265.195(c) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.195(c)
Violation Description:	Failure to conduct and document inspections of hazardous waste tank systems each operating day and retain records of those inspections at the facility.
Violation Notes:	Returned to compliance on 10/28/2020. OBSERVATION: Inspection logs for 10/27/20 were not available for review. Per L. Luu, tank and container inspections were conducted, but were not documented. CORRECTIVE ACTION: Inspection logs for 10/27/20 were documented. Violation corrected.
Violation Division:	Orange County Environmental Health

TAYCO ENGINEERING INC (Continued) **S113012004**

Violation Program: HWLQG
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-31-2017
Citation: 22 CCR 45 67450.2(b)(2) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.2(b)(2)
Violation Description: Failure to submit the signature page for the onsite treatment notification.
Violation Notes: Returned to compliance on 10/19/2017. The Tiered Permitting Unit PBR page was reviewed and the following corrections need to be made: - In section Treatment Unit Identification and Details, the number of Containers / Treatment Areas indicates 4 containers are being used in the treatment of HW. There is no treatment being conducted in containers. Please change this item on the page. - In section Permit by Rule (PBR)- Waste and Treatment Process Combinations, item #8 is marked Yes for a technology that is not being utilized (pH adjustment or neutralization). Please change this item on the page as the facility used item 1 for the pH Adjustment / Neutralization. The treatment notification forms must be updated in CERS, resubmit them within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: PBR
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 05-07-2014
Citation: 22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Description: Failure to determine if the waste generated is a hazardous waste and to maintain analysis results for three years.
Violation Notes: Returned to compliance on 06/05/2014. Waste used to clean-up residual ferric chloride and in-line filters from the process/treatment unit are deemed to be hazardous. A waste determination must be completed to prove otherwise. If a waste determination is not completed, the waste must be stored properly and labeled in a container and transported by a registered hauler for disposal.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 04-21-2020
Citation: 22 CCR 45 67450.2(c)(10) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.2(c)(10)
Violation Description: Failure of the owner or operator of a fixed treatment unit (FTU), upon request by the CUPA or authorized agency, to prepare, and submit to CUPA a complete annual report detailing treatment activities conducted during the calendar year preceding the request.
Violation Notes: Returned to compliance on 07/14/2020. All facilities that conduct treatment of hazardous waste under PBR are required to complete annual report detailing treatment activities by March 1st and submit to CERS. To date facility has not completed annual report. Submit annual report to CERS by May 21, 2020.

TAYCO ENGINEERING INC (Continued) **S113012004**

Violation Division: Orange County Environmental Health
Violation Program: PBR
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 10-28-2020
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: OBSERVATION: Annual employee training is overdue. CORRECTIVE ACTION: Provide all employees with required training that includes: safe handling hazardous materials, emergency response procedures, and proper use of response equipment. Submit training records to this Agency within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-22-2019
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description: Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes: Returned to compliance on 11/07/2019. OBSERVATION: Observed the following containers in etching area with lid issues: - one 55-gal container of waste filters. The bung cap on container has a hole and container is not sealed. - waste filters in observed in an open 5-gal container CORRECTIVE ACTION: Replace lid on the 55-gal container of waste filters and place lid on 5-gal container of waste filters. Submit proof of compliance to this Agency within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-22-2019
Citation: 22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Description: Failure to provide employees with hazardous waste training program of class room instructions or on-the-job training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility. The records shall include the following: the job title for

TAYCO ENGINEERING INC (Continued) **S113012004**

each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned to each position, and a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position.

Violation Notes: Returned to compliance on 10/07/2019. OBSERVATION: Facility employee training records do not include job title, requisite skill, education, or other qualifications for employees handling hazardous waste. CORRECTIVE ACTION: Submit documentation with the required information to this Agency within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-21-2018
Citation: HSC 6.5 25201(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25201(a)
Violation Description: Failure to obtain a permit or grant of interim status to accumulate hazardous waste longer than 90 days.
Violation Notes: Returned to compliance on 09/06/2018. One 55 gallon drum of waste filter press water filters was observed with an accumulation start date of 3/12/18 and has gone past its 90 day accumulation time limit. Have this waste disposed of by a registered hazardous waste hauler immediately and send disposal documentation to this Agency.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 05-05-2015
Citation: 22 CCR 45 67450.13(a)(1) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.13(a)(1)
Violation Description: Failure to prepare a written estimate of the cost of closing each unit which includes the cost that would be incurred for closing a treatment unit when using the owner or operator or generator's own staff and/or personal equipment taking into account any salvage value that may be realized from the sale of wastes, facility structure or equipment, land or other facility assets. This estimate shall be submitted as an attachment to the Certification of Financial Assurance for Permit by Rule and Conditionally Authorized Operations/ Maintenance page(s) of the Unified Program Consolidated Form (x/99)).
Violation Notes: A revised Estimated Closure Cost (CCE) breakdown for 2014 that includes costs for obtaining a Professional Engineer's (PE) certification for PBR unit closure was not received by this Agency. Therefore, your 2014 CCE was not approved by this agency. Revised 2014Certification Of Financial Assurance Form and Estimate Closure Cost with costs for obtaining a PE certification must be submitted to this Agency by 5/19/15.
Violation Division: Orange County Environmental Health
Violation Program: PBR
Violation Source: CERS

Site ID: 363815

TAYCO ENGINEERING INC (Continued) **S113012004**

Site Name:	TAYCO ENGINEERING INC
Violation Date:	08-22-2019
Citation:	HSC 6.5 25201(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25201(a)
Violation Description:	Failure to obtain a permit or grant of interim status to accumulate hazardous waste longer than 90 days.
Violation Notes:	Returned to compliance on 10/07/2019. OBSERVATION: Observed one 5-gal container of 'oakite 31' dated 4/29/19 and 2-gal container of used alcohol dated 4/29/19 in hazardous waste storage area. CORRECTIVE ACTION: Have these hazardous wastes hauled by a registered hazardous waste hauler. Submit a copy of the manifest to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	10-28-2020
Citation:	22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Description:	Failure to provide employees with hazardous waste training program of class room instructions or on-the-job training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility. The records shall include the following: the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned to each position, and a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position.
Violation Notes:	OBSERVATION: Annual employee training is overdue. OBSERVATION: The facility must conduct and document annual training for employees as specified in the employee training plan. Submit a copy of the training document within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	08-22-2019
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers 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 10/07/2019. OBSERVATION: Observed the following hazardous waste containers with non-compliant labels (corrected on site): - 55-gal polycarbonate drum of 'blue towels' missing hazardous property and physical state - 55-gal drum of waste filters with two hazardous waste labels with different accumulation

TAYCO ENGINEERING INC (Continued) **S113012004**

start dates. Operator removed one label. Remaining label was missing the physical state - 55-gal container of 'blue towels' was missing physical state on hazardous waste label Observed the following hazardous waste containers with non-compliant labels (NOT corrected on site): - 5-gal container labeled G waste MEKG observed in hazardous waste storage area with no hazardous waste label - Filter cake container is not labeled with an accumulation start date - 5-gal container with waste filters was not labeled as hazardous waste with the required information. CORRECTIVE ACTION: Label all containers of hazardous waste with the required information. Submit documentation [Truncated]

Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-21-2018
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 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 09/06/2018. One container of waste IPA wipes was missing a label entirely, and one 55 gallon drum of waste IPA wipes was missing the start date of accumulation. Please ensure all containers of hazardous waste are properly labeled as "Hazardous Waste" and include name and address of your facility, contents of the waste, chemical and physical properties of the waste, and the starting accumulation date.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 10-28-2020
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description: Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes: Returned to compliance on 10/28/2020. OBSERVATION: One, 5-gal container of waste filters was open while in storage. CORRECTIVE ACTION: Filters were placed in the their designated 55-gal waste container. Violation corrected.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 05-05-2016

TAYCO ENGINEERING INC (Continued) **S113012004**

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 09/29/2016. Please add the following chemicals to your disclosure. - Cutting Oil - 55 gallons - Simple Green - 55-gallons - MillFloc 528 - 55-gallons
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	08-22-2019
Citation:	22 CCR 45 67450.3(c)(8)(G) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(8)(G)
Violation Description:	Failure to prepare a written closure plan, to notify CUPA 15 days prior to the completion of closure, or to submit to CUPA a closure certification signed by the owner/operator and an independent P.E.
Violation Notes:	OBSERVATION: Closure Plan did not include an estimate of maximum inventory of waste in storage and in treatment for the system, a description of the steps required to decontaminate equipment during closure and estimate of expected year of closure. CORRECTIVE ACTION: Submit an updated Closure Plan to this Agency within 60 days.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	05-05-2016
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 05/23/2016. Employee training must be conducted to all new employees and to all employees handling hazardous materials and hazardous waste on an annual basis (minimum requirement). Please prepare and conduct training immediately in order to abate this violation.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	05-05-2016
Citation:	22 CCR 45 67450.3(c)(8) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(8)
Violation Description:	Failure to maintain, reproduce, and provide the following documents at the facility where the FTU is operating: 1) The waste analysis plan for the treatment operation; 2) The written inspection schedule; 3) All training documents; 4) The contingency plan; 5) A copy of the most recent treatment notification and a copy of the most recent

TAYCO ENGINEERING INC (Continued) **S113012004**

acknowledgement received from the Department, CUPA or authorized agency; 6) A copy of any local Air District permit and other permits required for the operation of the FTU; 7) A copy of the closure plan; 8) A copy of documents related to the environmental investigation and any cleanup, abatement or other necessary remedial action taken; and 9) Documentation of any convictions, judgments, settlements, or orders resulting from any action by any local, State, or federal environmental or public health enforcement agency concerning the operation of the facility within the last three years, as the documents would be available under the California Public Records Act.

Violation Notes: Returned to compliance on 09/29/2016. The facility has not prepared the following: 1. Waste Analysis Plan 2. Closure Plan Please prepare these documents immediately in order to abate the violation.
Violation Division: Orange County Environmental Health
Violation Program: PBR
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-21-2018
Citation: 22 CCR 15 66262.41 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66262.41
Violation Description: Failure of a large quantity RCRA generator to prepare the Biennial report (Form 8700), and submit to DTSC by March 1st on even numbered years ; and maintain it onsite for three years.
Violation Notes: Returned to compliance on 09/06/2018. The Biennial Report for March 1, 2018 was not available for review. Please complete EPA form 8700-13 A/B and submit the form to DTSC. Upon reinspection this Agency will review a certified mail receipt to confirm the report was sent.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-31-2017
Citation: HSC 6.5 25123.3(h)(1)(c) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)(c)
Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal of acute/extremely hazardous waste after the first 1-kilogram threshold amount was accumulated within a 90 day period.
Violation Notes: Returned to compliance on 10/19/2017. The facility has stored hazardous waste beyond the 90 day accumulation time period. Immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest and submit a copy of the manifest to the CUPA within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-31-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste",

TAYCO ENGINEERING INC (Continued) **S113012004**

	name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 10/19/2017. The physical state, hazardous property, name and address of the business and contents description were missing from the hazardous waste labels in the Production, Machine, Treatment areas. Each container and portable tank holding hazardous waste must be marked with the following information: 1. The words G HAZARDOUS WasteG 2. Waste (name) 3. Hazardous property of the waste (e.g. G toxic, flammable, corrosive, etc.) 4. Physical state of the waste (liquid or solid) 5. Name and address of the business. 6. Accumulation date (date the first drop of waste has been placed in container) Ensure all hazardous waste storage containers are properly labeled within 30 days. Please note that this is a reoccurring violation.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	10-28-2020
Citation:	22 CCR 45 67450.3(c)(8) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(8)
Violation Description:	Failure to maintain the required documents, including waste analysis plan, contingency plan, training documents, Phase I Environmental Assessment, written inspections schedules, etc. at the facility where the FTU is operating and upon request make these documents available to the authorized agency, DTSC, the CUPA, or EPA, or local government agency.
Violation Notes:	Returned to compliance on 10/28/2020. OBSERVATION: Inspection logs for 10/27/20 were not available for review. Per L. Luu, tank and container inspections were conducted, but were not documented. CORRECTIVE ACTION: Inspection logs for 10/27/20 were documented. Violation corrected.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	08-31-2017
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 10/19/2017. The following Hazardous Materials must be added to the Inventory: -Enthone -Surface Strip Also remove the Isopropyl Alcohol from the CERS Hazmat Inventory as its not stored at a reportable volume. Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS) within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

TAYCO ENGINEERING INC (Continued) **S113012004**

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 04-21-2020
Citation: 22 CCR 45 67450.13(a)(2) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.13(a)(2)
Violation Description: Failure to adjust Closure Costs for inflation / deflation by March 1st
Violation Notes: Returned to compliance on 07/14/2020. All facilities conducting treatment of hazardous waste under PBR are required to submit an updated closure cost estimate by March 1st, closure cost estimate must include inflation factor. To date facility has not submitted a copy of the revised closure cost to CERS. Submit revised closure cost to CERS by May 21, 2020.
Violation Division: Orange County Environmental Health
Violation Program: PBR
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-31-2017
Citation: HSC 6.5 25200.14(b)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25200.14(b)(1)
Violation Description: Failure to submit a Phase I Checklist to DTSC within one year of commencing operations.
Violation Notes: Returned to compliance on 09/07/2017. The Phase I checklist was not complete at the beginning of the inspection. It was completed adn available during the continued inspection on 9-7-17. Pleawse make these documents available for review during future inspections. Violation corrected.
Violation Division: Orange County Environmental Health
Violation Program: PBR
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-22-2019
Citation: 22 CCR 45 67450.3(c)(9)(A) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(9)(A)
Violation Description: Failure to prepare a treatment system inspection program and the log of inspections conducted, and maintain onsite for three years.
Violation Notes: OBSERVATION: Facility does not have a written inspection schedule. Inspection logs observed on site span from 12/3/18 - 8/13/19. CORRECTIVE ACTION: Create a written inspection record and submit a copy to this Agency within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: PBR
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 05-07-2014
Citation: 22 CCR 15 66265.31 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.31
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 the air, soil, or surface water which could threaten human health or the environment.

TAYCO ENGINEERING INC (Continued) **S113012004**

Violation Notes:	Returned to compliance on 06/05/2014. Equipment must be maintained to prevent an unauthorized release to the environment. Wet floors must be maintained clean and free of standing water on a daily basis. Waste solids used to clean-up ferric chloride waste are deemed to be hazardous. Waste solids must be placed in a hazardous waste container, labeled, and properly disposed. Waste filters are deemed to be hazardous. If this waste is believed to be non hazardous, a waste determination must be made to prove otherwise.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	05-05-2016
Citation:	22 CCR 45 67450.7 - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.7
Violation Description:	Failure of the owner or operator of a facility who operates a transportable treatment unit (TTU) or fixed treatment unit (FTU) under a permit by rule to complete a corrective action program at the facility. The corrective action shall consist of a phase 1 environmental assessment, which shall be submitted within one year of the initial notification of permit by rule treatment, and a subsequent corrective action conducted as necessary to protect human health and the environment for all releases of hazardous waste or constituents from any solid or hazardous waste management unit at the facility, regardless of the time at which waste was placed in the unit.
Violation Notes:	Returned to compliance on 07/03/2017. A Phase 1 environmental assessment must be completed within 30 days from the date of this report.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	08-22-2019
Citation:	22 CCR 45 67450.3(c)(8)(A)(c)(9)(A) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(8)(A)(c)(9)(A)
Violation Description:	Failure of an owner or operator to obtain a detailed chemical and physical analysis of a representative sample of the waste, which includes all information necessary to manage waste in accordance with the requirements, and to meet LDR requirements; Failure to analyze wastes according to the frequency specified in the plan and to retain waste analysis documentation for three years.
Violation Notes:	OBSERVATION: Waste analysis plan did not include parameters for which each waste will be analyzed, test method(s) for testing the metals and sample method. CORRECTIVE ACTION: Submit an updated Waste Analysis Plan to this Agency within 60 days.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	09-23-2016
Citation:	22 CCR 45 67450.2(c)(10) - California Code of Regulations, Title 22,

TAYCO ENGINEERING INC (Continued) **S113012004**

	Chapter 45, Section(s) 67450.2(c)(10)
Violation Description:	Failure of the owner or operator of a fixed treatment unit (FTU), upon request by the CUPA or authorized agency, to prepare, and submit to CUPA a complete annual report detailing treatment activities conducted during the calendar year preceding the request.
Violation Notes:	Returned to compliance on 09/29/2016. Please complete the annual certification within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	09-27-2016
Citation:	HSC 6.5 25200.14(b)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25200.14(b)(1)
Violation Description:	Failure to submit a Phase I Checklist to DTSC within one year of commencing operations.
Violation Notes:	Returned to compliance on 09/07/2017. Complete and submit to the DTSC within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-28-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	The inspection was conducted with Susan Berg, Supervising Hazardous Materials Specialist. Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - Liquid nitrogen - Nitrogen - Oxygen - Acetylene - Hydrogen/Argon - Ferric chloride - Muriatic acid - Surface Strip - Ferric chloride waste - Blue film waste - Waste water tanks
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-15-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Updated File and Envision Violations. ALl Hazardous Waste Violations were corrected on 6-5-14. Information updated. Reviewed any outstanding issues. Emailed HCA/Escobedo for updates.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-15-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Updated File and Envision Violations. P001 corrected on 7-14-14. Y016 Outstanding. PE Assessment completed and reviewed by HCA/Escobedo on

TAYCO ENGINEERING INC (Continued) **S113012004**

8-14-14. Corrections cited by Escobedo. Emailed Escobedo for update. Treatment PE has been changed to PBR.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-05-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Inspector Comments: Please be advised that this Agency has reviewed 2015 Tiered Permitting Financial Assurance Self Certification for this facility. The 2015 Adjusted Closure Cost Estimate (CCE) was not properly calculated due errors in multiplication of 2014 costs with the 2015 inflation factor (1.016). In addition, CCE for 2015 cannot be approved until revised 2014 CCE have been submitted and approved by this agency. Costs for obtaining a PE certification for PBR unit closure as required (22CCR sec.66264.115) were not included in 2014 CCE and requested revised documents were not received by this agency. Also, the 2015 CCE breakdown lists two different amounts ($2,228.56 and $11,472.70) for equipment salvage value. Revised/corrected 2014 and 2015 Certification Of Financial Assurance Form and Estimate Closure Cost must be submitted to this Agency by 5/19/15.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-05-2015
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Inspector Comments: Please be advised that in the inspection report dated 8/14/14, after reviewing the 2014 Tiered Permitting Financial Assurance Self Certification for this facility, this agency requested submittal of revised Closure Cost Estimate (CCE) breakdown that included costs for obtaining a PE certification for PBR unit closure as required (22CCR sec.66264.115). Revised Certification Of Financial Assurance form and CCE breakdown with costs for PE certification were never received by this agency and 2014 closure costs were approved. Requested documents must be submitted by 5/19/15 to avoid further enforcement action.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-05-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-05-2016
Violations Found: No

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Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-05-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for a routine Tiered Permitting inspection. Met with Environmental Manager Lance Luu of Tayco Engineering Inc. Also present was Terry Carrier of OCHCA. The facility is regulated under Permit By Rule program for (1) FTU. The facility conducts acid etching. Waste water is treated with acid/base ph adjustment and a flocculent to precipitate out the metals. The sludge is then put through a filter press to remove any liquids. Documents observed during this inspection include: - Tiered Permitting (PBR) notification - on CERS database - Inspection schedule and logs - POTW permit Documents that were not provided included the following: - Waste Analysis Plan (See violation I675 above) - Phase 1 Environmental Checklist/Assessment (See violation I087 above) - Closure Plan (See violation I675 above) Documents must be prepared within 30 days from the date of this report.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-05-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Disclosure Business Emergency Plan (HMBEP) inspection. Met with environmental Manager Lance Luu of Tayco Engineering. Consent was provided to enter and conduct inspection activities. Tayco has submitted the HMBEP into the California Environmental Reporting System (CERS) database. Based on this inspection, (3) chemicals need to be added to your CERS submission (see violation I169 above). The (3) chemicals are: - Cutting Oil - Simple Green - MillFloc 528 The contingency plan and training program was verified during this inspection. Training documentation was not available for verification (See violation I239 above). Please note that if the facility decides to discontinue any of the above chemicals, proper disposal or removal of chemicals is required and maintenance of disposal records will be verified. Within 30 days of removal, contact this agency to verify that the hazardous material is no longer stored on [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-14-2014
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Received lab results from holding tank samples. Received pretreatment analytical lab results for samples 1B and 2B from Truesdail

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Laboriatories. Samples 1B and 2B were collected on June 10, 2014. Analytical results indicate that both samples were acidic (pH<2). In addition, both samples exhibited toxic characteristics due to the presence of copper, chromium, and nickel. Currently, the facility is regulated as a conditionally authorized facility. Based on the analytical results however, the facility should be regulated as a Permit By Rule facility (See violation P001 above). You must resubmit notification forms indicating the proper Tier to this agency immediately.

Eval Division: Orange County Environmental Health
Eval Program: CA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-16-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Spoke to Lance Luu regarding TP forms.
Eval Division: Orange County Environmental Health
Eval Program: CA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-23-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Update HMSS AEO Meeting files and Spreadsheet.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-23-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Update HMSS AEO Meeting files and Spreadsheet.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-23-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following documents were received in CERS: - Financial Assurance - Renewal forms The following violations have been corrected: - I564: Failure to adjust Closure Costs for inflation / deflation by March 1st - I335: Failure of the owner or operator of a fixed treatment unit (FTU), upon request by the CUPA or authorized agency, to prepare, and submit to CUPA a complete annual report detailing treatment activities conducted during the calendar year preceding the request - I015: Failure to prepare a written closure plan, to notify CUPA 15 days prior to the completion of closure, or to submit to CUPA a closure certification signed by the owner or operator and an independent P.E The following violations are OUTSTANDING and must be corrected IMMEDIATELY: - I019: Failure to prepare a treatment system inspection program and the log of inspections conducted, and maintain onsite for

TAYCO ENGINEERING INC (Continued) **S113012004**

	three years CORRECTIVE ACTION: Create a written inspection record and submit a [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-24-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received phone call and email from Sheri T. Nikolakopulos of Tayco confirming attendance of AEO Meeting.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-24-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received phone call and email from Sheri T. Nikolakopulos of Tayco confirming attendance of AEO Meeting.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-28-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Update AEO Folders for AEO Meeting. Review violations with Escobedo. Review Penalty.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-28-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Update AEO Folders for AEO Meeting. Review violations with Escobedo. Review Penalty.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-29-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Prepare Consent Order for AEO Meeting. Received CUPA Treatment Notification Forms for update and review.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown

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Eval Date:	07-29-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Prepare Consent Order for AEO Meeting. Received CUPA Treatment Notification Forms for update and review.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-29-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Review File for AEO Meeting. Prepare Room. Prepare Payment Vouchers.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-29-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Review File for AEO Meeting. Prepare Room. Prepare Payment Vouchers.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-29-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Show cause meeting held. AEO Issued. Consent Order signed. Files and EN updated.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-29-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Show cause meeting held. AEO Issued. Consent Order signed. Files and EN updated.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-31-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received Certificate of Financial Assurance including estimated closure costs, the Onsite hazardous waste treatment notification page, the Permit by Rule pages, and the waste treatment flow charts. All Tiered Permitting forms look appear to be administratively complete.
Eval Division:	Orange County Environmental Health
Eval Program:	CA

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Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-04-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: hmbep under review Emergency Response/Contingency Plan G Please update the Orange County Health Care Agency CUPA Phone number. It is 714 G 433 G 6000.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-05-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: hmbep not approved For all compressed gases change storage pressure to above ambient. For all submissions with annual waste amounts (ferric chloride, 45 and anhydrous, sludge, AH metal working fluid, Simple Green, Heavy metal Precipitants): If these chemicals are indeed wastes, add the following: Indicate the material as waste, add a state waste code http://abag.ca.gov/hazwaste/infoonnewmanifest.pdf , provide mixture components with their CAS#s and % weights. Ferric Chloride, anhydrous: Add chronic health to federal hazard categories. All 4 waste water submissions can be combined into one if they contain the same waste. Change hazardous material type to waste, provide a state waste code depending on the waste in the water. Isopropanol: You indicated to only have a maximum daily amount of 5 gallons. This number should reflect the maximum amount held on site at any one time. If it is only 5 gallons, it does not meet disclosure requirements and can be deleted from [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-14-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Please be advised that this Agency has reviewed the revised Tiered Permitting Financial Assurance Self Certification dated 7/22/14, for this facility. The Closure Cost Estimate (CCE) breakdown you provided does not include the cost for obtaining a Professional EngineerG s (PE) certification for PBR unit closure as required (22CCR sec.66264.115). Revised Certification Of Financial Assurance form and CCE breakdown (enclosed) which includes costs for obtaining a PE certification must be submitted by 8/28/14.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-14-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed PE assessment report.

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Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-14-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed the Written Engineers Tank Assessment Report for the Permit By Rule (PBR) Tank Systems at Tayco Engineering. The tank assessment was conducted by Alta Environmental. Based on my review of this assessment, the document is determined to be incomplete due to the following: - The Tank Assessment must be certified by a Civil, Structural, or Geotechnical Engineer. - Per Title 22, 66265.192 (a)(5), if the facility is located in a seismic fault zone, a seismic assessment shall also be conducted on the tank system. Please include as an addendum to this report a seismic assessment of the tank system that includes the seismic calculations. The seismic assessment must be certified by a qualified engineer as previously mentioned. Based on the above, violation Y016 will remain open and outstanding. In order to abate this violation, complete the above immediately. Based on the findings of the tank assessment report, the secondary containment, wood support [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-17-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP denied, Reviewed HMBEP submission package on eSubmit Portal, SUbmission DENIED. Request for re submittal.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-21-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Tiered Permitting inspection, accompanied by Dean Freed, Supervising Hazardous Materials Specialist. Consent to inspect was given by Lance Luu, Project Engineer. The facility is operating one Permit By Rule treatment unit. Wastewater being treated is generated from etching using strong acid and is hazardous for pH, chrome, and copper. Wastewater is pumped from the etching process to a lift station, where it is then pumped to two holding tanks. From holding tanks the waste is pumped to a batch treatment tank where caustic soda and flocculent is added to adjust pH and precipitate out heavy metals. The sludge is then put through a filter press and residual liquids are pumped back into the batch treatment tank. The facility has submitted Tiered Permitting Unit Notification forms to CERS. CERS ID 10537606 last submittal dated 3/26/18 was verified during this inspection. The following documents were available for review: - Inspection and [Truncated]
Eval Division:	Orange County Environmental Health

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-21-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Hazardous Waste inspection, accompanied by Dean Freed, Supervising Hazardous Materials Specialist. Consent to inspect was given by Lance Luu, Project Engineer. The facility is a Large Quantity Generator of RCRA hazardous waste. Walked throughout the facility and observed hazardous waste generation points and storage areas. The following was observed: - 55 gallon drum of filter press water filters was dated 3/12/18 and has gone past its 90 day accumulation time limit - 55 gallon drum of waste IPA wipes was observed with a label, but missing the start date of accumulation - One container for waste IPA wipes in the quality control room was observed without a Hazardous Waste label The municipal trash was observed and there appears to be no signs of illegal disposal. The following documents were available for review: - Hazardous waste manifests - Business contingency plan - Annual employee training records - Inspection logs for [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-22-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct hazardous waste inspection. Susan Berg with OCHCA also present on site. The following documents were reviewed: - SB14 - Bienniel Report - BEP - Training Records - Hazardous Waste Manifests Document review was conducted on 8/22/19. Walk through facility inspection was conducted on 8/26/19 due to time limitations on 8/22/19. Photographs were taken during walk through inspection. Municipal dumpsters were inspected. No hazardous waste was observed. A re-inspection will be conducted in approximately 30 days to assess facility compliance.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-22-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct Tiered Permitting - Permit by Rule inspection. Susan Berg with OCHCA is also present on site. Facility conducts treatment of rinses that are hazardous for copper, chrome and pH. Document review was conducted on 8/22/19. Walk through facility inspection was conducted on 8/26/19 due to time limitations on 8/22/19. Mr. Luu confirmed no changes to the treatment system and no releases within the last 3 years. The following documents were reviewed: - Phase I Environmental Checklist - Closure Plan - Waste Analysis Plan and Waste Analysis Records - PE certification dated 4/19/19 - Inspection Logs

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-31-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine hazardous waste inspection. Also present was Susan Berg of OCHCA. Consent to enter, inspect, and take photographs was given by Mr. Luu and he provided a tour of the facility. The facility generates sufficient quantities of federally-regulated hazardous waste and is regulated as a RCRA large quantity generator (LQG). The facility reportedly conducts treatment of rinse liquids containing chromium, nickel and copper under a Permit by Rule tier. Observed the facility and inspected the process areas, treatment areas, and storage areas. The following conditions were observed: Labeling and Container Storage Accumulation -A 10 gallon container of waste petroleum distillates container had an accumulation start date of 6-2-16. -A 20 gallon container of acid waste had an accumulation start date of 10-15-15 and had conflicting content description as acid waste and waste mineral spirits with the hazardous property of Toxic, Flammable and 5 gallon [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-07-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	CA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-07-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-07-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Review past 5 years of reports
Eval Division:	Orange County Environmental Health
Eval Program:	CA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-07-2014
Violations Found:	No

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval Type: Other, not routine, done by local agency
Eval Notes: Review past 5 years of reports.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-07-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. Met with Lance Luu (environmental manager), who gave consent to inspect and take photos. Hazardous waste observed on site include: - Spent alcohol, spent coolant, used oil, waste liquid Oakite, waste acid, spent treatment slurry, and waste filter cake solids. - The spent alcohol and used oil containers did not state the accumulation date (see violation W010 above). - The hazardous waste label on the waste liquid Oakite container did not indicate the hazardous properties of the waste (see violation W013 above). - The label on the spent coolant container was illegible (see violation W013 above). - The 55-gallon ploy drum containing the spent slurry was not stored closed or labeled (see violation W013 and W016 above). - The filter cake waste was stored in the "transfer container". The container was not labeled or store closed (see violation W013 and W016 above). For transfer the words [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-12-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Site visit to get signature.
Eval Division: Orange County Environmental Health
Eval Program: CA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-31-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Consent to inspect and take photos was provided by Lance Luu. A walk through of the facility was conducted. The following Hazardous Substances were observed being stored at above the reporting threshold: HM -Argon Hydrogen Gas -Oxygen Gas -Acetylene Gas -Argon Gas -Nitrogen Gas -Nitrogen Liquid -Ferric Chloride: Etch Machine / Drums -Muriatic Acid 20% -Enthone developer -Milfloc 528 -Caustic Soda 50% -Surface Strip 446-1 -Simple Green Degreaser -Bright-Cut AH Metalworking Fluid HW -Wastewater w/acid, chrome, copper, nickel -Filter Cake / Sludge -Ferric Chloride Waste The following are missing from the Inventory in CERS: -Enthone Developer - Surface Strip Also please remove the Isopropyl Alcohol as it is below the reportable volume This facility is responsible for identifying all hazardous materials and hazardous wastes, which are above the following [Truncated]

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-13-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received call from Lance Luu regarding adding PE cert costs for FA requested in inspection reports. I explained that the cost needs to be added to the breakdown. He said he will submit revised documents by 5/22/15.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-13-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: BA/OW pg - owner name corrected
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-14-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	COMPLAINT GENERATED FOR ADMINISTRATIVE ENFORCEMENT ORDER TIME
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-14-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	COMPLAINT OPENED FOR ADMINISTRATIVE ENFORCEMENT ORDER TIME
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-14-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Show Cause Letter Received. Create Enforcement Folders. Download EC reports. Create HMSS AEO Facility Tabs. Generate Complaint and EN.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-14-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval Notes:	Show Cause Letter Received. Create Enforcement Folders. Download EC reports. Create HMSS AEO Facility Tabs. Generate Complaint and EN.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-22-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Begin Draft of Show Cause Letter
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-22-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Begin Draft of Show Cause Letter
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-23-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Test Results---Write Report~!!!!!!
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-27-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Draft show cause letter. Email for review. Initial penalty calculation. Create folders for meeting. Book room for meeting.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-27-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Draft show cause letter. Email for review. Initial penalty calculation. Create folders for meeting. Book room for meeting.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-28-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval Notes:	Final Show Cause Letter. Signed and Sent Via Certified Mail 5-28-14. Liked letter to HMSS AEO Spreadsheet. Updated Email with Letter to Staff
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-28-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Final Show Cause Letter. Signed and Sent Via Certified Mail 5-28-14. Liked letter to HMSS AEO Spreadsheet. Updated Email with Letter to Staff
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-04-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspector Comments: Please be advised that this Agency has reviewed revised 2015 Certification Of Financial Assurance Form and Estimated Closure Cost. The 2015 Adjusted Closure Cost Estimate (CCE) was not properly calculated since the 2015 inflation factor (1.016) was not applied to line 4 on the closure cost breakdown table "Dispose of hazardous waste residuals..." Your total closure cost for 2015 is $12,312.92 rather than 12,272.89 listed in the breakdown. Corrected Certification Of Financial Assurance Form and Estimated Closure Cost must be submitted by 6/11/15.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-05-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Violation follow up. All violations have been abated this date.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-05-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Discussed facility’s financial assurance status with Christine Lane.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-09-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval Notes:	06/09/2016 Your HMBEP has been declined and you need to revise and resubmit within 30 days: For you site Map, you just need to label your emergency staging area. If you have any questions you can email me at anesbit@ochaca.com Thank you
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-27-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed facility's CERS HMBEP Submission. All submittal elements have been accepted for administrative completeness, however the emergency response/contingency plan's contact list will need to be edited.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-08-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Put paper file (purple) Transfered to new paper file (yellow)
Eval Division:	Orange County Environmental Health
Eval Program:	CA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-14-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received follow-up inspection reports from Escobedo. Lab Results for TP and reports and HMSS Spreadsheet updated. AEO Meeting file updated.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-31-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Permit By Rule Tiered Permitting inspection. Supervising Hazardous Materials Specialist Susan Berg accompanied me on the inspection. We met with Mr. Lance Luu and he provided consent to inspect and take photos of the facility. The facility uses a wastewater treatment unit to treat wastewater generated from the process consisting of developer liquids and etchants used on printed circuit boards. The wastewater is reportedly hazardous for pH, Chrome, and Copper. The wastewater is treated with acid/base ph adjustment and a flocculent to precipitate out the metals. The sludge is then put through a filter press to remove any liquids. The facility is regulated under Permit By Rule program for 1 Treatment Unit. The HW Treatment Notification Information submitted in CERS has incorrect information regarding treatment in containers (see violation). Mr. Luu, stated there has been no changes to the process and no releases of hazardous materials [Truncated]

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-04-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received email from Lance Luu stating the facility's hazardous waste hauler is scheduled to pick up waste on 9/4/18. A reinspection will be conducted on 9/6/18 to verify the facility has no waste exceeding 90 day storage accumulation limits and that containers missing labels have been labeled properly.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-06-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site to conduct a RCRA LQG Hazardous Waste reinspection. Consent to inspect was given by Lance Luu, Project Engineer. The facility's Hazardous Waste storage was observed and a walk through of the facility was conducted. The 55 gallon drum of waste filter press water filters dated 3/12/18 is no longer on site. Manifests were available for review showing the waste was hauled off site by Univar USA Inc. on 9/4/18, violation I125 is corrected. The 55 gallon drum of waste IPA wipes, which was missing a start date of accumulation on its label was also hauled off site on 9/4/18. The container of waste IPA wipes in the Quality Control room now has a properly filled out Hazardous Waste label, violation I562 is corrected. The facility has prepared and mailed their Biennial Report for 3/1/18 to DTSC. A USPS certified mail receipt dated 9/4/18 was observed, violation I206 is corrected. The facility has no outstanding violations remaining. A copy of this inspection was sent [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-15-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS 10537606 for the Tiered Permitting section was reviewed and not accepted today. The following comment was made: The TP PBR Treatment Unit forms have been reviewed and are not accepted today. The Tiered Permitting Unit PBR page was reviewed and the following corrections need to be made: - In section Treatment Unit Identification and Details, the number of Containers / Treatment Areas indicates 4 containers are being used in the treatment of HW. There is no treatment being conducted in containers. Please change this item on the page. - In section Permit by Rule (PBR)- Waste and Treatment Process Combinations, item #8 is marked Yes for a technology that is not being utilized (pH adjustment or neutralization). Please change this item on the page as the facility used item 1 for the pH Adjustment / Neutralization. Please update the submittal and re-submit

TAYCO ENGINEERING INC (Continued) **S113012004**

	within 30 days.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-23-2016
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS: Reviewed and declined the CERS tiered permitting CERS disclosure. This is a PBR facility and not a CE-CEL facility.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-27-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	File and violation review
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-27-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	File and violation review
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-27-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	File and violation review
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-27-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS: On-site for a follow up inspection. Met with Lance Luu and discussed the open violations from the inspection report dated 05/05/16. Reviewed the CERS disclosure on-site this date. The training plan has been forwarded to this agency for review and is on-site. Abate violations I169 and I239 from the previous inspection report.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-27-2016

TAYCO ENGINEERING INC (Continued) **S113012004**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS: On-site for a follow up inspection. Met with Lance Luu and discussed the open violations from the inspection report dated 05/05/16. Violation I325 has been corrected. A copy of the analytical results for the metal sanding dust was reviewed this date. This material appears to be non-hazardous. Violation I328 has not been corrected. Manifest 009433773 dated 06/02/16 was produced during the inspection as evidence that the Oakite waste observed during the last inspection with an accumulation date of 2011 was disposed of properly. The oakite waste does not appear to be in any of the three descriptions, but is listed in block 14 (special handling instructions). Please contact the hauler and determine if the waste oakite was hauled on this manifest, and if so, why wasn't the waste listed.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-27-2016
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS: On-site for a follow up inspection. Met with Lance Luu and discussed the open violations from the inspection report dated 05/05/16. Reviewed and completed the Tiered Permitting CERS disclosure on-site this date. The closure and waste analysis plans were on-site. Abate violations I335 and I675 from the previous inspection report. A violation for the failure to complete and submit a Phase I ENvironmental Checklist was cited today.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed and accepted the HMBP CERS disclosure.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed and accepted the tiered permitting CERS disclosure.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-30-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received the following documents: - PE Assessment

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dated 9/4/19 Document has been updated to reflect both toxic and corrosive hazardous properties of waste on site. The following violation has been closed: -I012: PE Assessment of the hazardous waste tank system completed. The following violations remain outstanding: - I019: A written inspection schedule and most recent inspection logs of treatment system to this Agency. - I015: Estimate date of closure needed on Closure Plan. - I023: Waste analysis plan is incomplete. Please submit documentation to this Agency within 30 days to close out the outstanding violations. Contact me at acabudol@ochca.com or 714-625-2702 if you have questions.

Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-30-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following documents were received by this Agency: - Treatment system inspection program - Waste Analysis Plan - Laboratory test results The following violation has been corrected: - I019: Failure to prepare a treatment system inspection program and the log of inspections conducted, and maintain onsite for three years The Waste Analysis Plan (WAP) submitted to this Agency is inadequate and does not meet the requirements set forth in 22 CCR 66265.13(a)(b). The following elements have not been met: - WAP shall specify parameters for which each hazardous waste will be analyzed and the rationale for the selection of these parameters - The facility is required to obtain a detailed chemical and physical analysis of a representative sample of the waste prior to transferring, treating, storing, or disposing of any hazardous waste WAP adequately describes test methods which will be used to test these parameters; however, test results indicate that samples [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-03-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: INSPECTOR COMMENTS: Received the TSDF signed copy of the manifest and the COD for the waste identified during the last routine inspection. Reviewed the documents this date. Abate violation I328 from the previous inspection reports.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-07-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On site to conduct re-inspection to verify compliance. Susan Berg with OCHCA is also present on site. Walked through the facility and observed hazardous waste storage areas. Observed hazardous waste storage areas and review documentation. Treatment Area: - Observed one

TAYCO ENGINEERING INC (Continued) **S113012004**

5-gal container of waste filter and pads and one 2.5-gal of waste pads in TP unit area. Containers were open and did not have labels. Operator labeled and placed lids on both containers. Per Mr. Luu, containers are emptied and waste is put into a 55-gal drum of waste filters. - Filter cake container label in treatment area has been corrected of labeling issues noted on the previous inspection. - Damaged bung cap noted on previous inspection has been replaced for 55-gal waste filter drum. Hazardous Waste Storage Area by Lab: - 5-gal container of Oakite 31 dated 4/29/19 and 2-gal container of used alcohol have been hauled. Manifests were available for review. Document Review: - Training [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-19-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS 10537606 was reviewed and is complete and accepted. The Facility information is complete and accepted. The Hazardous Materials Inventory is complete and accepted. NOTE: the Enthone and Surface Strip were added.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-19-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Onsite to conduct a follow-up Hazardous Waste inspection. I met with Lance Lu and he provided a copy of the disposal records for wastes stored beyond 90 days. The facility no longer has hazardous waste being stored beyond 90 days. Violation I328 is corrected. All hazardous waste containers and tanks were observed properly labeled. Violation I400 is corrected. The facility no longer stores the waste acids near the waste Potassium Hydroxide. Violation I118 is corrected. The facility has no outstanding Hazardous Waste violations at this time.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-19-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Onsite to conduct a follow-up TP PBR inspection. The CERS (10537606) submittal for the TP PBR Unit was updated and under review at this time. The facility updated the Treatment Unit Identification Page and Details and removed the indication of treatment in containers. The section Permit by Rule G Waste Treatment Process Combinations was updated and is complete. The CERS review began but was not completed today. The status is under review at this time. -An updated Waste Analysis Plan reviewed and is complete. Violation I675 is corrected. No outstanding TP PBR violations remain at this time.

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-28-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a hazardous waste inspection. The inspection was conducted with Susan Berg, Supervising Hazardous Materials Specialist. The following documents were on site and available for review: - SB14 - Bienneial Report - Emergency Response Plan - Training Records - Manifests Walked throughout the facility. Observed hazardous waste storage areas. No hazardous waste or universal waste observed in the dumpster/enclosure area.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-28-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a Tired Permitting- Permit by Rule inspection. The inspection was conducted with Susan Berg, Supervising Hazardous Materials Specialist. Facility conducts batch treatment of rinses that are hazardous for copper, chrome, and pH. Facility has one treatment unit and 2 tanks. The following documents were onsite and available for review: - Closure Plan - OC Sanitation District Permit - Waste Analysis Plan - PE certification dated 9/4/19 - Inspection logs The following violation was noted on a previous inspection report and remains OUTSTANDING: - I023: Failure of an owner or operator to obtain a detailed chemical and physical analysis of a representative sample of the waste, which includes all information necessary to manage waste in accordance with requirements, and to meet LDR requirements Please submit a complete WAP and laboratory analysis test results. Verify number of tanks and update in CERS within 30 days. Per on site [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-16-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The seismic assessment report detailing the structural calculations for the tank system was received. This addendum completes the initial Tank Assessment Report that was submitted on August 6, 2014. Structural calculations were performed by Lawrence Y Ho (Structural Engineer) of Englekirk Structural Engineers. After a review of the seismic assessment report, one item is required to finalize this report. - Engineers Certification Page. The certification needs to contain proper language required, a signature, and engineers stamp. Please submit this immediately to finalize the tank assessment report.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-17-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Spoke to HCA/Escobedo for update on open violations regarding PE Certification. Escobedo confirmed a re-submission. Violations Closed. Files updated.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-18-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-24-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBEP Denied. Reviewed HMBEP submission package on eSubmit Portal. Submission DENIED. Request for re-submittal.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-27-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The facility submitted the updated HMBEP and it was complete and accepted in CERS. The Hazardous Materials Inventory included the Ethone and Surface Strip and removed Isopropyl Alcohol in CERS. Violation I169 was updated as corrected in ECR today.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-13-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Final Payment Recorded. All violations corrected. Draft Compliance Letter. Email to HCA/Lane for review.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-15-2021
Violations Found: No

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	The purpose of this offsite inspection is to follow up on a violation that was noted on a previous inspection report. The following violation is outstanding and must be corrected immediately: - I023: Failure of an owner or operator to obtain a detailed chemical and physical analysis of a representative sample of the waste, which includes all information necessary to manage waste in accordance with requirements, and to meet LDR requirements CORRECTIVE ACTION: Submit an updated Waste Analysis Plan to this Agency. A follow up inspection will be conducted within 30 days to assess compliance.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-15-2021
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The purpose of this offsite inspection is to follow up on violations that were noted on a previous inspection report. The following violations are outstanding and must be corrected IMMEDIATELY: - I126: Failure to provide employees with hazardous waste training program of class room instructions or on-the-job training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. CORRECTIVE ACTION: The facility must conduct and document annual training for employees as specified in the employee training plan. Submit a copy of the training document to this Agency. - I562: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date CORRECTIVE ACTION: Label all containers of hazardous waste with [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-15-2021
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The purpose of this offsite inspection report is to follow up on violations that were noted on a previous inspection report. The following violations are outstanding and must be corrected IMMEDIATELY: - I169: Failure to electronically submit complete and accurate hazardous material inventory forms information for all reportable hazardous materials on site at or above quantities CORRECTIVE ACTION: Review comments in CERS, revise, and resubmit. - I632: Failure to electronically submit a site map with all required content CORRECTIVE ACTION: Review comments in CERS, and update site map to include all required elements. - I239: 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 CORRECTIVE ACTION: Provide all employees with required training that includes: safe handling [Truncated]
Eval Division:	Orange County Environmental Health

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-20-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Compliance Letter Drafted and SIGNED. Compliance Letter sent. CERS Updated and CERS Enforcement form generated. CO CLOSED. EN CLOSED. CERS form emailed to Cal EPA for posting. Closed AEO on HMSS Enforcement Spreadsheet. AEO CLOSED 1-20-2015.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-20-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Compliance Letter Drafted and SIGNED. Compliance Letter sent. CERS Updated and CERS Enforcement form generated. CO CLOSED. EN CLOSED. CERS form emailed to Cal EPA for posting. Closed AEO on HMSS Enforcement Spreadsheet. AEO CLOSED 1-20-2015.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-04-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBEP Denied Reviewed HMBEP submission package on eSubmit Portal. Submission DENIED. Request for re-submittal.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-08-2019
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: Regional Board staff conducted a No Exposure Certification inspection of the above facility on February 8, 2019. Staff observed no violations at time if inspection. The yard did not have any exposed materials and thus is currently in compliance with the No Exposure Certification requirements as identified in the Industrial General Permit.
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

Eval General Type: Other/Unknown
Eval Date: 02-13-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBEP Denied. Reviewed HMBEP submission package on eSubmit Portal. Submission DENIED. Request for re-submittal.

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-18-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Please be advised that this Agency has reviewed Tiered Permitting Financial Assurance Self Certification for this facility. The 2014 Adjusted Closure Cost Estimate (CCE) was not properly calculated due to errors in the Estimated Closure Costs. According to new costs provided, the total 2014 CCE is $8519.02 and the 2014 Adjusted CCE after applying the salvage value ($2476.17), is $6042.85. Revised Certification Of Financial Assurance Form and Estimate Closure Cost (enclosed) must be submitted to this Agency by 3/17/14. Also, the salvage value of the assets has not been changed from the value listed in 2012. The salvage value of your assets must be reviewed on an annual basis to be sure that depreciation and changes made to your inventory of equipment are reflected in the salvage value estimate. If you believe that your salvage value has remained the same since 2012, be sure to maintain documentation reflecting your estimated salvage value.
Eval Division:	Orange County Environmental Health
Eval Program:	CA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-18-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Certificate of financial renewal received. The annual notification documents were received.
Eval Division:	Orange County Environmental Health
Eval Program:	CA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-19-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Denied. Reviewed HMBEP submission package on eSubmit Portal. Submission DENIED. Request for re-submittal.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-24-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Denied. Reviewed HMBEP submission package on eSubmit Portal. Submission DENIED. Request for re-submittal.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval General Type:	Other/Unknown
Eval Date:	03-02-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Please be advised that this Agency has reviewed revised 2017 Tiered Permitting Financial Assurance Self Certification documents submitted to CERS on 2/20/17. Reported closure cost and closure cost breakdown table are the reported values for 2016. Inflation factor for 2017 is 1.013. Therefore, your 2017 CCE is your 2016 CCE ($16,380.88) multiplied by a factor of 1.013 which is $16,593.83 (without applying salvage). Corrected Certification Of Financial Assurance Form and Estimated Closure Cost form must be submitted within 30 days of this inspection report.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	03-03-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Approved. The following documents were received and ACCEPTED on the eSubmit Portal: Business Activities Form Business Owner/Operator Form Chemical Inventory for (# of chemicals) Facility Site Map
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	03-25-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspector Comments: Please be advised that this Agency has reviewed the 2016 Tiered Permitting Financial Assurance Self Certification documents for this facility. Breakdown of closure costs with new estimate, was reviewed. However, Certification Of Financial Assurance Form was not submitted. Certification Of Financial Assurance Form must be submitted by 4/8/16.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	03-26-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: Facility created account in CERS for TP-FA
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-02-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received the UPC forms, onsite hazardous waste treatment notification facility page, and facility/system layout diagrams. Forms appear to be

TAYCO ENGINEERING INC (Continued) **S113012004**

	administratively complete.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-05-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspector Comments: Revised financial assurance documents submitted to CERS on 4/4/16 were reviewed. The electronic Tiered Permitting Financial Assurance field in CERS must be used to submit the financial certification document. You cannot use the Miscellaneous tab to upload the document. Certification Of Financial Assurance form must be submitted by 4/22/16.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-08-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: BA/OW page - not accepted - put President name in Owner field - requested update
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-21-2020
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Facility conducts treatment of rinse waters for copper, chrome and pH under the Tiered Permit Permit by Rule Tier (PBR). As a facility that conducts treatment under PBR you are required to submit an adjusted closure close estimate and report detailing treatment activities. During the 08/22/2019 onsite inspection the following was observed: -I023: Waste Analysis Plan observed to be missing parameters for which each waste will be analyzed and test method(s) for sampling -I015: Closure Plan observed to be missing maximum inventory of waste in storage and in treatment, description of steps required to decontaminate -I019: written inspection schedule unavailable To date a copy of the revised Waste Analysis Plan, Closure Plan and Inspection schedule have not been provided to this agency. Violations I023, I015 and I019 remain outstanding with this agency. Provide the documentation listed in this inspection report to this agency immediately.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-24-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Denied due to inaccurate Chemical Description.

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Site Address: 10874 HOPE ST
Site City: CYPRESS
Site Zip: 90630
Enf Action Date: 05-14-2014
Enf Action Type: AEO - Unified Program
Enf Action Description: Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes: Fines/Penalties Assessed: $20,000.00. TAYCO ENGINEERING INC 10874 HOPE STREET CYPRESS, CA 90630 FA0025720 HW: PR0026735 TPCA: PR0030629.
Enf Action Division: Orange County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Site Address: 10874 HOPE ST
Site City: CYPRESS
Site Zip: 90630
Enf Action Date: 09-01-2020
Enf Action Type: AEO - Unified Program
Enf Action Description: Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes: Fines/Penalties Assessed: $33,500.00. SEPs Value: $10,000.00.
Enf Action Division: Orange County Environmental Health
Enf Action Program: HWLQG
Enf Action Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Site Address: 10874 HOPE ST
Site City: CYPRESS
Site Zip: 90630
Enf Action Date: 09-01-2020
Enf Action Type: AEO - Unified Program
Enf Action Description: Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes: Fines/Penalties Assessed: $33,500.00. SEPs Value: $10,000.00.
Enf Action Division: Orange County Environmental Health
Enf Action Program: PBR
Enf Action Source: CERS

Coordinates:
Site ID: 363815
Facility Name: TAYCO ENGINEERING INC
Env Int Type Code: HWG
Program ID: 10537606
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.804360
Longitude: -118.023220

TAYCO ENGINEERING INC (Continued) **S113012004**

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Lance Luu
Entity Title:	Not reported
Affiliation Address:	10874 HOPE ST
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Owner/Operator
Entity Name:	Tayco Engineering, Inc
Entity Title:	Operator
Affiliation Address:	10874 Hope Street10874 Hope Street
Affiliation City:	Cypress
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	TAYCO ENGINEERING INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	10874 HOPE ST
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Tayco Engineering, Inc.
Entity Title:	Not reported
Affiliation Address:	10874 HOPE ST
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(714) 952-2240

Affiliation Type Desc:	Document Preparer
Entity Name:	Lance Luu
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6406

Affiliation Type Desc: Identification Signer
Entity Name: Lance Luu
Entity Title: Safety Director
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Onsite Treatment Unit Owner Operator
Entity Name: Lance Luu
Entity Title: Safety and Hazardous Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Tayco Engineering, Inc.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (714) 952-2240

Name: TAYCO ENGINEERING INC
Address: 10874 HOPE ST
City,State,Zip: CYPRESS, CA 90630
Site ID: 363815
CERS ID: 10537606
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-22-2019
Citation: 22 CCR 45 67450.3(c)(9)(F) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(9)(F)

TAYCO ENGINEERING INC (Continued) **S113012004**

Violation Description:	Failure of generator to obtain assessment or reassessment every five (5) years or the remaining service life of the tank system, as stated in the engineer's assessment, whichever is less. This assessment applies to onground or aboveground tank systems containing only non-RCRA hazardous wastes generated onsite, and tank systems authorized under Permit-by-Rule, Conditional Authorization, and Conditional Exemption or for a small quantity generator onground or aboveground tank systems containing RCRA hazardous wastes generated onsite.
Violation Notes:	Returned to compliance on 09/30/2019. OBSERVATION: PE certification dated 4/19/19 does not include 'corrosive' for the hazardous characteristics of handled waste. CORRECTIVE ACTION: Submit updated PE certification to this Agency within 60 days.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	08-31-2017
Citation:	22 CCR 15 66265.177 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.177
Violation Description:	Failure to separate incompatible wastes from the same container, nearby containers, or unwashed containers which previously contained incompatible waste or materials.
Violation Notes:	Returned to compliance on 10/19/2017. The facility stored waste Hydrochloric Acid mixed with Hydrofluoric acid next to a container of waste Potassium Hydroxide and above a shared secondary containment pallet. These chemicals are incompatible and must not be stored next to each other nor sharing secondary containment. Immediately move the two waste streams away from each other and store them above separate secondary containment.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	10-28-2020
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers 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:	OBSERVATION: The labels on the following containers of hazardous waste were non-compliant: (corrected on site): - Two containers of alcohol wipes/towels located in the Hard Heater area were not emptied nightly as indicated on the container. Per the area supervisor, the containers were not emptied the night prior to the inspection. - 55-gal container of waste filters was missing the hazardous property - 55-gal container of blue film waste was missing the physical state and hazardous property - 55 gal container of waste towels was missing the physical state and hazardous property The labels on the following containers of hazardous waste were non-compliant: (NOT corrected on site): - Several containers of alcohol wipes/towels were missing the physical state and hazardous property - Several containers of alcohol wipes/towels were

TAYCO ENGINEERING INC (Continued) **S113012004**

marked with both an accumulation start date and G Empty Every NightG - 5-gal container of waste Oakite had the incorrect [Truncated]
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 10-28-2020
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: OBSERVATION: The chemical inventory in CERS requires amendments. CORRECTIVE ACTION: Review comments, revise, and resubmit within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 05-07-2014
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description: Failure to properly close hazardous waste containers when not in active use.
Violation Notes: Returned to compliance on 06/05/2014. All containers must be kept closed when storing hazardous waste. Containers storing Liquid/slurry must be sealed. Containers storing solids must have a lid covering the waste.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 10-28-2020
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: OBSERVATION: The business failed to complete and electronically submit a site map with all required content including: north orientation, loading area, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shut offs, evacuation staging area, hazardous materials/waste storage areas and emergency response equipment. CORRECTIVE ACTION: Review comments in CERS, and update site map to include all required elements. Submit in CERS within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC

TAYCO ENGINEERING INC (Continued) **S113012004**

Violation Date:	05-07-2014
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 06/05/2014. An accumulation date must be stated on the hazardous waste label as soon as any waste is place in the container.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	05-07-2014
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 06/05/2014. All containers storing hazardous waste must be labeled with the required information.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	07-14-2014
Citation:	22 CCR 45 67450.2(c)(10) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.2(c)(10)
Violation Description:	Failure of the generator to prepare, maintain, and submit to CUPA an annual report containing the following information: (A) The serial number(s) of the FTU(s) involved in treatment; (B) The physical and mailing address of the business entity which owns or operates the FTU(s); (C) The name, title and telephone number of each FTU contact person; (D) The name and address or legal description of the facility; (E) The facility identification number; (F) The number of days each FTU was operated; (G) The quantity of hazardous waste(s) treated by each FTU; (H) The composition and hazardous characteristics of the influent hazardous waste(s); (I) The treatment method(s) used for each hazardous waste treated by each FTU; (J) The quantity, composition and hazardous characteristic(s) of any treatment effluent or residual discharged from each FTU to a POTW, if applicable; and (K) The quantity, composition, hazardous characteristic(s) and disposition of any FTU treatment effluent or residual that was not discharged to a POTW, if applicable.
Violation Notes:	Due to the absence of a waste evaluation, the facility has not been regulated in the correct Tier. Based on analytical results from grab samples collected from the pretreament holding tanks, the facility should be regulated as a Permit By Rule facility. Please re-submit notification forms electronically via the E-submit Portal indicating the proper tier to this agency immediately.
Violation Division:	Orange County Environmental Health

TAYCO ENGINEERING INC (Continued) **S113012004**

Violation Program: CA
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-31-2017
Citation: 22 CCR 45 67450.3(c)(8) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(8)
Violation Description: Failure to maintain the required documents at the facility where the FTU is operating and upon request make these documents available to authorized agency, DTSC, the CUPA, or EPA, or local government agency.
Violation Notes: Returned to compliance on 10/19/2017. The Waste Analysis plan is incomplete and does not meet the elements listed in 22 CCR 66265.13 . Ensure the Waste Analysis plan is complete and a copy of the revised Waste Analysis Plan is submitted to this agency within 30 days from receiving this report.
Violation Division: Orange County Environmental Health
Violation Program: PBR
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 10-28-2020
Citation: 22 CCR 15 66265.195(c) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.195(c)
Violation Description: Failure to conduct and document inspections of hazardous waste tank systems each operating day and retain records of those inspections at the facility.
Violation Notes: Returned to compliance on 10/28/2020. OBSERVATION: Inspection logs for 10/27/20 were not available for review. Per L. Luu, tank and container inspections were conducted, but were not documented. CORRECTIVE ACTION: Inspection logs for 10/27/20 were documented. Violation corrected.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-31-2017
Citation: 22 CCR 45 67450.2(b)(2) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.2(b)(2)
Violation Description: Failure to submit the signature page for the onsite treatment notification.
Violation Notes: Returned to compliance on 10/19/2017. The Tiered Permitting Unit PBR page was reviewed and the following corrections need to be made: - In section Treatment Unit Identification and Details, the number of Containers / Treatment Areas indicates 4 containers are being used in the treatment of HW. There is no treatment being conducted in containers. Please change this item on the page. - In section Permit by Rule (PBR)- Waste and Treatment Process Combinations, item #8 is marked Yes for a technology that is not being utilized (pH adjustment or neutralization). Please change this item on the page as the facility used item 1 for the pH Adjustment / Neutralization. The treatment notification forms must be updated in CERS, resubmit them within 30 days.
Violation Division: Orange County Environmental Health

TAYCO ENGINEERING INC (Continued) **S113012004**

Violation Program: PBR
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 05-07-2014
Citation: 22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Description: Failure to determine if the waste generated is a hazardous waste and to maintain analysis results for three years.
Violation Notes: Returned to compliance on 06/05/2014. Waste used to clean-up residual ferric chloride and in-line filters from the process/treatment unit are deemed to be hazardous. A waste determination must be completed to prove otherwise. If a waste determination is not completed, the waste must be stored properly and labeled in a container and transported by a registered hauler for disposal.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 04-21-2020
Citation: 22 CCR 45 67450.2(c)(10) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.2(c)(10)
Violation Description: Failure of the owner or operator of a fixed treatment unit (FTU), upon request by the CUPA or authorized agency, to prepare, and submit to CUPA a complete annual report detailing treatment activities conducted during the calendar year preceding the request.
Violation Notes: Returned to compliance on 07/14/2020. All facilities that conduct treatment of hazardous waste under PBR are required to complete annual report detailing treatment activities by March 1st and submit to CERS. To date facility has not completed annual report. Submit annual report to CERS by May 21, 2020.
Violation Division: Orange County Environmental Health
Violation Program: PBR
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 10-28-2020
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: OBSERVATION: Annual employee training is overdue. CORRECTIVE ACTION: Provide all employees with required training that includes: safe handling hazardous materials, emergency response procedures, and proper use of response equipment. Submit training records to this Agency within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 363815

TAYCO ENGINEERING INC (Continued) **S113012004**

Site Name:	TAYCO ENGINEERING INC
Violation Date:	08-22-2019
Citation:	22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 11/07/2019. OBSERVATION: Observed the following containers in etching area with lid issues: - one 55-gal container of waste filters. The bung cap on container has a hole and container is not sealed. - waste filters in observed in an open 5-gal container CORRECTIVE ACTION: Replace lid on the 55-gal container of waste filters and place lid on 5-gal container of waste filters. Submit proof of compliance to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS

Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	08-22-2019
Citation:	22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Description:	Failure to provide employees with hazardous waste training program of class room instructions or on-the-job training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility. The records shall include the following: the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned to each position, and a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position.
Violation Notes:	Returned to compliance on 10/07/2019. OBSERVATION: Facility employee training records do not include job title, requisite skill, education, or other qualifications for employees handling hazardous waste. CORRECTIVE ACTION: Submit documentation with the required information to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS

Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	08-21-2018
Citation:	HSC 6.5 25201(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25201(a)
Violation Description:	Failure to obtain a permit or grant of interim status to accumulate hazardous waste longer than 90 days.
Violation Notes:	Returned to compliance on 09/06/2018. One 55 gallon drum of waste

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filter press water filters was observed with an accumulation start date of 3/12/18 and has gone past its 90 day accumulation time limit. Have this waste disposed of by a registered hazardous waste hauler immediately and send disposal documentation to this Agency.

Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 05-05-2015
Citation: 22 CCR 45 67450.13(a)(1) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.13(a)(1)
Violation Description: Failure to prepare a written estimate of the cost of closing each unit which includes the cost that would be incurred for closing a treatment unit when using the owner or operator or generator's own staff and/or personal equipment taking into account any salvage value that may be realized from the sale of wastes, facility structure or equipment, land or other facility assets. This estimate shall be submitted as an attachment to the Certification of Financial Assurance for Permit by Rule and Conditionally Authorized Operations/ Maintenance page(s) of the Unified Program Consolidated Form (x/99)).
Violation Notes: A revised Estimated Closure Cost (CCE) breakdown for 2014 that includes costs for obtaining a Professional Engineer's (PE) certification for PBR unit closure was not received by this Agency. Therefore, your 2014 CCE was not approved by this agency. Revised 2014Certification Of Financial Assurance Form and Estimate Closure Cost with costs for obtaining a PE certification must be submitted to this Agency by 5/19/15.
Violation Division: Orange County Environmental Health
Violation Program: PBR
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-22-2019
Citation: HSC 6.5 25201(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25201(a)
Violation Description: Failure to obtain a permit or grant of interim status to accumulate hazardous waste longer than 90 days.
Violation Notes: Returned to compliance on 10/07/2019. OBSERVATION: Observed one 5-gal container of 'oakite 31' dated 4/29/19 and 2-gal container of used alcohol dated 4/29/19 in hazardous waste storage area. CORRECTIVE ACTION: Have these hazardous wastes hauled by a registered hazardous waste hauler. Submit a copy of the manifest to this Agency within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 10-28-2020
Citation: 22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Description: Failure to provide employees with hazardous waste training program of class room instructions or on-the-job training within the first six

TAYCO ENGINEERING INC (Continued) **S113012004**

months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility. The records shall include the following: the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned to each position, and a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position.

Violation Notes: OBSERVATION: Annual employee training is overdue. OBSERVATION: The facility must conduct and document annual training for employees as specified in the employee training plan. Submit a copy of the training document within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-22-2019
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers 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 10/07/2019. OBSERVATION: Observed the following hazardous waste containers with non-compliant labels (corrected on site): - 55-gal polycarbonate drum of 'blue towels' missing hazardous property and physical state - 55-gal drum of waste filters with two hazardous waste labels with different accumulation start dates. Operator removed one label. Remaining label was missing the physical state - 55-gal container of 'blue towels' was missing physical state on hazardous waste label Observed the following hazardous waste containers with non-compliant labels (NOT corrected on site): - 5-gal container labeled G waste MEKG observed in hazardous waste storage area with no hazardous waste label - Filter cake container is not labeled with an accumulation start date - 5-gal container with waste filters was not labeled as hazardous waste with the required information. CORRECTIVE ACTION: Label all containers of hazardous waste with the required information. Submit documentation [Truncated]
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-21-2018
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 with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous

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	Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 09/06/2018. One container of waste IPA wipes was missing a label entirely, and one 55 gallon drum of waste IPA wipes was missing the start date of accumulation. Please ensure all containers of hazardous waste are properly labeled as "Hazardous Waste" and include name and address of your facility, contents of the waste, chemical and physical properties of the waste, and the starting accumulation date.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	10-28-2020
Citation:	22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 10/28/2020. OBSERVATION: One, 5-gal container of waste filters was open while in storage. CORRECTIVE ACTION: Filters were placed in the their designated 55-gal waste container. Violation corrected.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	05-05-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to 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 09/29/2016. Please add the following chemicals to your disclosure. - Cutting Oil - 55 gallons - Simple Green - 55-gallons - MillFloc 528 - 55-gallons
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	08-22-2019
Citation:	22 CCR 45 67450.3(c)(8)(G) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(8)(G)
Violation Description:	Failure to prepare a written closure plan, to notify CUPA 15 days prior to the completion of closure, or to submit to CUPA a closure certification signed by the owner/operator and an independent P.E.
Violation Notes:	OBSERVATION: Closure Plan did not include an estimate of maximum inventory of waste in storage and in treatment for the system, a description of the steps required to decontaminate equipment during

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	closure and estimate of expected year of closure. CORRECTIVE ACTION: Submit an updated Closure Plan to this Agency within 60 days.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	05-05-2016
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 05/23/2016. Employee training must be conducted to all new employees and to all employees handling hazardous materials and hazardous waste on an annual basis (minimum requirement). Please prepare and conduct training immediately in order to abate this violation.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	05-05-2016
Citation:	22 CCR 45 67450.3(c)(8) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(8)
Violation Description:	Failure to maintain, reproduce, and provide the following documents at the facility where the FTU is operating: 1) The waste analysis plan for the treatment operation; 2) The written inspection schedule; 3) All training documents; 4) The contingency plan; 5) A copy of the most recent treatment notification and a copy of the most recent acknowledgement received from the Department, CUPA or authorized agency; 6) A copy of any local Air District permit and other permits required for the operation of the FTU; 7) A copy of the closure plan; 8) A copy of documents related to the environmental investigation and any cleanup, abatement or other necessary remedial action taken; and 9) Documentation of any convictions, judgments, settlements, or orders resulting from any action by any local, State, or federal environmental or public health enforcement agency concerning the operation of the facility within the last three years, as the documents would be available under the California Public Records Act.
Violation Notes:	Returned to compliance on 09/29/2016. The facility has not prepared the following: 1. Waste Analysis Plan 2. Closure Plan Please prepare these documents immediately in order to abate the violation.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	08-21-2018
Citation:	22 CCR 15 66262.41 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66262.41
Violation Description:	Failure of a large quantity RCRA generator to prepare the Biennial

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report (Form 8700), and submit to DTSC by March 1st on even numbered years ; and maintain it onsite for three years.

Violation Notes: Returned to compliance on 09/06/2018. The Biennial Report for March 1, 2018 was not available for review. Please complete EPA form 8700-13 A/B and submit the form to DTSC. Upon reinspection this Agency will review a certified mail receipt to confirm the report was sent.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-31-2017
Citation: HSC 6.5 25123.3(h)(1)(c) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)(c)
Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal of acute/extremely hazardous waste after the first 1-kilogram threshold amount was accumulated within a 90 day period.
Violation Notes: Returned to compliance on 10/19/2017. The facility has stored hazardous waste beyond the 90 day accumulation time period. Immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest and submit a copy of the manifest to the CUPA within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-31-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 10/19/2017. The physical state, hazardous property, name and address of the business and contents description were missing from the hazardous waste labels in the Production, Machine, Treatment areas. Each container and portable tank holding hazardous waste must be marked with the following information: 1. The words G HAZARDOUS WasteG 2. Waste (name) 3. Hazardous property of the waste (e.g. G toxic, flammable, corrosive, etc.) 4. Physical state of the waste (liquid or solid) 5. Name and address of the business. 6. Accumulation date (date the first drop of waste has been placed in container) Ensure all hazardous waste storage containers are properly labeled within 30 days. Please note that this is a reoccurring violation.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 10-28-2020
Citation: 22 CCR 45 67450.3(c)(8) - California Code of Regulations, Title 22,

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	Chapter 45, Section(s) 67450.3(c)(8)
Violation Description:	Failure to maintain the required documents, including waste analysis plan, contingency plan, training documents, Phase I Environmental Assessment, written inspections schedules, etc. at the facility where the FTU is operating and upon request make these documents available to the authorized agency, DTSC, the CUPA, or EPA, or local government agency.
Violation Notes:	Returned to compliance on 10/28/2020. OBSERVATION: Inspection logs for 10/27/20 were not available for review. Per L. Luu, tank and container inspections were conducted, but were not documented. CORRECTIVE ACTION: Inspection logs for 10/27/20 were documented. Violation corrected.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	08-31-2017
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 10/19/2017. The following Hazardous Materials must be added to the Inventory: -Enthone -Surface Strip Also remove the Isopropyl Alcohol from the CERS Hazmat Inventory as its not stored at a reportable volume. Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS) within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	04-21-2020
Citation:	22 CCR 45 67450.13(a)(2) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.13(a)(2)
Violation Description:	Failure to adjust Closure Costs for inflation / deflation by March 1st
Violation Notes:	Returned to compliance on 07/14/2020. All facilities conducting treatment of hazardous waste under PBR are required to submit an updated closure cost estimate by March 1st, closure cost estimate must include inflation factor. To date facility has not submitted a copy of the revised closure cost to CERS. Submit revised closure cost to CERS by May 21, 2020.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	08-31-2017
Citation:	HSC 6.5 25200.14(b)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25200.14(b)(1)
Violation Description:	Failure to submit a Phase I Checklist to DTSC within one year of

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commencing operations.

Violation Notes: Returned to compliance on 09/07/2017. The Phase I checklist was not complete at the beginning of the inspection. It was completed adn available during the continued inspection on 9-7-17. Pleawse make these documents available for review during future inspections. Violation corrected.
Violation Division: Orange County Environmental Health
Violation Program: PBR
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 08-22-2019
Citation: 22 CCR 45 67450.3(c)(9)(A) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(9)(A)
Violation Description: Failure to prepare a treatment system inspection program and the log of inspections conducted, and maintain onsite for three years.
Violation Notes: OBSERVATION: Facility does not have a written inspection schedule. Inspection logs observed on site span from 12/3/18 - 8/13/19. CORRECTIVE ACTION: Create a written inspection record and submit a copy to this Agency within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: PBR
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 05-07-2014
Citation: 22 CCR 15 66265.31 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.31
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 the air, soil, or surface water which could threaten human health or the environment.
Violation Notes: Returned to compliance on 06/05/2014. Equipment must be maintained to prevent an unauthorized release to the environment. Wet floors must be maintained clean and free of standing water on a daily basis. Waste solids used to clean-up ferric chloride waste are deemed to be hazardous. Waste solids must be placed in a hazardous waste container, labeled, and properly disposed. Waste filters are deemed to be hazardous. If this waste is believed to be non hazardous, a waste determination must be made to prove otherwise.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Violation Date: 05-05-2016
Citation: 22 CCR 45 67450.7 - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.7
Violation Description: Failure of the owner or operator of a facility who operates a transportable treatment unit (TTU) or fixed treatment unit (FTU) under a permit by rule to complete a corrective action program at the facility. The corrective action shall consist of a phase 1 environmental assessment, which shall be submitted within one year of

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	the initial notification of permit by rule treatment, and a subsequent corrective action conducted as necessary to protect human health and the environment for all releases of hazardous waste or constituents from any solid or hazardous waste management unit at the facility, regardless of the time at which waste was placed in the unit.
Violation Notes:	Returned to compliance on 07/03/2017. A Phase 1 environmental assessment must be completed within 30 days from the date of this report.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	08-22-2019
Citation:	22 CCR 45 67450.3(c)(8)(A)(c)(9)(A) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.3(c)(8)(A)(c)(9)(A)
Violation Description:	Failure of an owner or operator to obtain a detailed chemical and physical analysis of a representative sample of the waste, which includes all information necessary to manage waste in accordance with the requirements, and to meet LDR requirements; Failure to analyze wastes according to the frequency specified in the plan and to retain waste analysis documentation for three years.
Violation Notes:	OBSERVATION: Waste analysis plan did not include parameters for which each waste will be analyzed, test method(s) for testing the metals and sample method. CORRECTIVE ACTION: Submit an updated Waste Analysis Plan to this Agency within 60 days.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	09-23-2016
Citation:	22 CCR 45 67450.2(c)(10) - California Code of Regulations, Title 22, Chapter 45, Section(s) 67450.2(c)(10)
Violation Description:	Failure of the owner or operator of a fixed treatment unit (FTU), upon request by the CUPA or authorized agency, to prepare, and submit to CUPA a complete annual report detailing treatment activities conducted during the calendar year preceding the request.
Violation Notes:	Returned to compliance on 09/29/2016. Please complete the annual certification within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR
Violation Source:	CERS
Site ID:	363815
Site Name:	TAYCO ENGINEERING INC
Violation Date:	09-27-2016
Citation:	HSC 6.5 25200.14(b)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25200.14(b)(1)
Violation Description:	Failure to submit a Phase I Checklist to DTSC within one year of commencing operations.
Violation Notes:	Returned to compliance on 09/07/2017. Complete and submit to the DTSC within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	PBR

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Violation Source: CERS

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-28-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: The inspection was conducted with Susan Berg, Supervising Hazardous Materials Specialist. Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - Liquid nitrogen - Nitrogen - Oxygen - Acetylene - Hydrogen/Argon - Ferric chloride - Muriatic acid - Surface Strip - Ferric chloride waste - Blue film waste - Waste water tanks
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-15-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Updated File and Envision Violations. ALl Hazardous Waste Violations were corrected on 6-5-14. Information updated. Reviewed any outstanding issues. Emailed HCA/Escobedo for updates.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-15-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Updated File and Envision Violations. P001 corrected on 7-14-14. Y016 Outstanding. PE Assessment completed and reviewed by HCA/Escobedo on 8-14-14. Corrections cited by Escobedo. Emailed Escobedo for update. Treatment PE has been changed to PBR.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-05-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Inspector Comments: Please be advised that this Agency has reviewed 2015 Tiered Permitting Financial Assurance Self Certification for this facility. The 2015 Adjusted Closure Cost Estimate (CCE) was not properly calculated due errors in multiplication of 2014 costs with the 2015 inflation factor (1.016). In addition, CCE for 2015 cannot be approved until revised 2014 CCE have been submitted and approved by this agency. Costs for obtaining a PE certification for PBR unit closure as required (22CCR sec.66264.115) were not included in 2014 CCE and requested revised documents were not received by this agency. Also, the 2015 CCE breakdown lists two different amounts ($2,228.56 and $11,472.70) for equipment salvage value. Revised/corrected 2014 and 2015 Certification Of Financial Assurance Form and Estimate

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	Closure Cost must be submitted to this Agency by 5/19/15.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-05-2015
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspector Comments: Please be advised that in the inspection report dated 8/14/14, after reviewing the 2014 Tiered Permitting Financial Assurance Self Certification for this facility, this agency requested submittal of revised Closure Cost Estimate (CCE) breakdown that included costs for obtaining a PE certification for PBR unit closure as required (22CCR sec.66264.115). Revised Certification Of Financial Assurance form and CCE breakdown with costs for PE certification were never received by this agency and 2014 closure costs were approved. Requested documents must be submitted by 5/19/15 to avoid further enforcement action.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-05-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-05-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-05-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for a routine Tiered Permitting inspection. Met with Environmental Manager Lance Luu of Tayco Engineering Inc. Also present was Terry Carrier of OCHCA. The facility is regulated under Permit By Rule program for (1) FTU. The facility conducts acid etching. Waste water is treated with acid/base ph adjustment and a flocculent to precipitate out the metals. The sludge is then put through a filter press to remove any liquids. Documents observed during this inspection include: - Tiered Permitting (PBR) notification - on CERS database - Inspection schedule and logs - POTW permit Documents that were not provided included the following: - Waste Analysis Plan (See violation I675 above) - Phase 1 Environmental Checklist/Assessment (See violation I087 above) - Closure Plan (See violation I675 above)

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	Documents must be prepared within 30 days from the date of this report.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-05-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Hazardous Materials Disclosure Business Emergency Plan (HMBEP) inspection. Met with environmental Manager Lance Luu of Tayco Engineering. Consent was provided to enter and conduct inspection activities. Tayco has submitted the HMBEP into the California Environmental Reporting System (CERS) database. Based on this inspection, (3) chemicals need to be added to your CERS submission (see violation I169 above). The (3) chemicals are: - Cutting Oil - Simple Green - MillFloc 528 The contingency plan and training program was verified during this inspection. Training documentation was not available for verification (See violation I239 above). Please note that if the facility decides to discontinue any of the above chemicals, proper disposal or removal of chemicals is required and maintenance of disposal records will be verified. Within 30 days of removal, contact this agency to verify that the hazardous material is no longer stored on [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-14-2014
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received lab results from holding tank samples. Received pretreatment analytical lab results for samples 1B and 2B from Truesdail Laboriatories. Samples 1B and 2B were collected on June 10, 2014. Analytical results indicate that both samples were acidic (pH<2). In addition, both samples exhibited toxic characteristics due to the presence of copper, chromium, and nickel. Currently, the facility is regulated as a conditionally authorized facility. Based on the analytical results however, the facility should be regulated as a Permit By Rule facility (See violation P001 above). You must resubmit notification forms indicating the proper Tier to this agency immediately.
Eval Division:	Orange County Environmental Health
Eval Program:	CA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-16-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Spoke to Lance Luu regarding TP forms.
Eval Division:	Orange County Environmental Health
Eval Program:	CA
Eval Source:	CERS

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval General Type:	Other/Unknown
Eval Date:	07-23-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Update HMSS AEO Meeting files and Spreadsheet.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-23-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Update HMSS AEO Meeting files and Spreadsheet.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-23-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following documents were received in CERS: - Financial Assurance - Renewal forms The following violations have been corrected: - I564: Failure to adjust Closure Costs for inflation / deflation by March 1st - I335: Failure of the owner or operator of a fixed treatment unit (FTU), upon request by the CUPA or authorized agency, to prepare, and submit to CUPA a complete annual report detailing treatment activities conducted during the calendar year preceding the request - I015: Failure to prepare a written closure plan, to notify CUPA 15 days prior to the completion of closure, or to submit to CUPA a closure certification signed by the owner or operator and an independent P.E The following violations are OUTSTANDING and must be corrected IMMEDIATELY: - I019: Failure to prepare a treatment system inspection program and the log of inspections conducted, and maintain onsite for three years CORRECTIVE ACTION: Create a written inspection record and submit a [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-24-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received phone call and email from Sheri T. Nikolakopulos of Tayco confirming attendance of AEO Meeting.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-24-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received phone call and email from Sheri T. Nikolakopulos of Tayco confirming attendance of AEO Meeting.

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-28-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Update AEO Folders for AEO Meeting. Review violations with Escobedo. Review Penalty.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-28-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Update AEO Folders for AEO Meeting. Review violations with Escobedo. Review Penalty.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-29-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Prepare Consent Order for AEO Meeting. Received CUPA Treatment Notification Forms for update and review.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-29-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Prepare Consent Order for AEO Meeting. Received CUPA Treatment Notification Forms for update and review.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-29-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Review File for AEO Meeting. Prepare Room. Prepare Payment Vouchers.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-29-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval Notes:	Review File for AEO Meeting. Prepare Room. Prepare Payment Vouchers.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-29-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Show cause meeting held. AEO Issued. Consent Order signed. Files and EN updated.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-29-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Show cause meeting held. AEO Issued. Consent Order signed. Files and EN updated.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-31-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received Certificate of Financial Assurance including estimated closure costs, the Onsite hazardous waste treatment notification page, the Permit by Rule pages, and the waste treatment flow charts. All Tiered Permitting forms look appear to be administratively complete.
Eval Division:	Orange County Environmental Health
Eval Program:	CA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-04-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	hmbep under review Emergency Response/Contingency Plan G Please update the Orange County Health Care Agency CUPA Phone number. It is 714 G 433 G 6000.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-05-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	hmbep not approved For all compressed gases change storage pressure to above ambient. For all submissions with annual waste amounts (ferric chloride, 45 and anhydrous, sludge, AH metal working fluid, Simple Green, Heavy metal Precipitants): If these chemicals are indeed wastes, add the following: Indicate the material as waste, add a state

TAYCO ENGINEERING INC (Continued) **S113012004**

waste code http://abag.ca.gov/hazwaste/infoonnewmanifest.pdf , provide mixture components with their CAS#s and % weights. Ferric Chloride, anhydrous: Add chronic health to federal hazard categories. All 4 waste water submissions can be combined into one if they contain the same waste. Change hazardous material type to waste, provide a state waste code depending on the waste in the water. Isopropanol: You indicated to only have a maximum daily amount of 5 gallons. This number should reflect the maximum amount held on site at any one time. If it is only 5 gallons, it does not meet disclosure requirements and can be deleted from [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-14-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Please be advised that this Agency has reviewed the revised Tiered Permitting Financial Assurance Self Certification dated 7/22/14, for this facility. The Closure Cost Estimate (CCE) breakdown you provided does not include the cost for obtaining a Professional EngineerG s (PE) certification for PBR unit closure as required (22CCR sec.66264.115). Revised Certification Of Financial Assurance form and CCE breakdown (enclosed) which includes costs for obtaining a PE certification must be submitted by 8/28/14.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-14-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed PE assessment report.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-14-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed the Written Engineers Tank Assessment Report for the Permit By Rule (PBR) Tank Systems at Tayco Engineering. The tank assessment was conducted by Alta Environmental. Based on my review of this assessment, the document is determined to be incomplete due to the following: - The Tank Assessment must be certified by a Civil, Structural, or Geotechnical Engineer. - Per Title 22, 66265.192 (a)(5), if the facility is located in a seismic fault zone, a seismic assessment shall also be conducted on the tank system. Please include as an addendum to this report a seismic assessment of the tank system that includes the seismic calculations. The seismic assessment must be certified by a qualified engineer as previously mentioned. Based on the above, violation Y016 will remain open and outstanding. In order to abate this violation, complete the above immediately. Based on the findings of the tank assessment report, the secondary containment,

TAYCO ENGINEERING INC (Continued) **S113012004**

wood support [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-17-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBEP denied, Reviewed HMBEP submission package on eSubmit Portal, SUbmission DENIED. Request for re submittal.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-21-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Tiered Permitting inspection, accompanied by Dean Freed, Supervising Hazardous Materials Specialist. Consent to inspect was given by Lance Luu, Project Engineer. The facility is operating one Permit By Rule treatment unit. Wastewater being treated is generated from etching using strong acid and is hazardous for pH, chrome, and copper. Wastewater is pumped from the etching process to a lift station, where it is then pumped to two holding tanks. From holding tanks the waste is pumped to a batch treatment tank where caustic soda and flocculent is added to adjust pH and precipitate out heavy metals. The sludge is then put through a filter press and residual liquids are pumped back into the batch treatment tank. The facility has submitted Tiered Permitting Unit Notification forms to CERS. CERS ID 10537606 last submittal dated 3/26/18 was verified during this inspection. The following documents were available for review: - Inspection and [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-21-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine Hazardous Waste inspection, accompanied by Dean Freed, Supervising Hazardous Materials Specialist. Consent to inspect was given by Lance Luu, Project Engineer. The facility is a Large Quantity Generator of RCRA hazardous waste. Walked throughout the facility and observed hazardous waste generation points and storage areas. The following was observed: - 55 gallon drum of filter press water filters was dated 3/12/18 and has gone past its 90 day accumulation time limit - 55 gallon drum of waste IPA wipes was observed with a label, but missing the start date of accumulation - One container for waste IPA wipes in the quality control room was observed without a Hazardous Waste label The municipal trash was observed and there appears to be no signs of illegal disposal. The following documents were available for review: - Hazardous waste manifests - Business contingency plan - Annual employee training records - Inspection logs for [Truncated]

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Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-22-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct hazardous waste inspection. Susan Berg with OCHCA also present on site. The following documents were reviewed: - SB14 - Bienniel Report - BEP - Training Records - Hazardous Waste Manifests Document review was conducted on 8/22/19. Walk through facility inspection was conducted on 8/26/19 due to time limitations on 8/22/19. Photographs were taken during walk through inspection. Municipal dumpsters were inspected. No hazardous waste was observed. A re-inspection will be conducted in approximately 30 days to assess facility compliance.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-22-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct Tiered Permitting - Permit by Rule inspection. Susan Berg with OCHCA is also present on site. Facility conducts treatment of rinses that are hazardous for copper, chrome and pH. Document review was conducted on 8/22/19. Walk through facility inspection was conducted on 8/26/19 due to time limitations on 8/22/19. Mr. Luu confirmed no changes to the treatment system and no releases within the last 3 years. The following documents were reviewed: - Phase I Environmental Checklist - Closure Plan - Waste Analysis Plan and Waste Analysis Records - PE certification dated 4/19/19 - Inspection Logs
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-31-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine hazardous waste inspection. Also present was Susan Berg of OCHCA. Consent to enter, inspect, and take photographs was given by Mr. Luu and he provided a tour of the facility. The facility generates sufficient quantities of federally-regulated hazardous waste and is regulated as a RCRA large quantity generator (LQG). The facility reportedly conducts treatment of rinse liquids containing chromium, nickel and copper under a Permit by Rule tier. Observed the facility and inspected the process areas, treatment areas, and storage areas. The following conditions were observed: Labeling and Container Storage Accumulation -A 10 gallon container of waste petroleum distillates container had an accumulation start date of 6-2-16. -A 20 gallon container of acid waste had an accumulation start date of 10-15-15 and had conflicting content description as acid waste and waste mineral spirits with the hazardous property of Toxic, Flammable

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and 5 gallon [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-07-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: CA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-07-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-07-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Review past 5 years of reports
Eval Division: Orange County Environmental Health
Eval Program: CA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-07-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Review past 5 years of reports.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-07-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. Met with Lance Luu (environmental manager), who gave consent to inspect and take photos. Hazardous waste observed on site include: - Spent alcohol, spent coolant, used oil, waste liquid Oakite, waste acid, spent treatment slurry, and waste filter cake solids. - The spent alcohol and used oil containers did not state the accumulation date (see violation W010 above). - The hazardous waste label on the waste liquid Oakite container did not indicate the hazardous properties of the waste (see violation W013 above). - The label on the spent coolant container was illegible (see violation W013 above). - The 55-gallon ploy drum containing the spent slurry was not stored closed or labeled (see violation W013 and W016 above). - The filter cake waste was

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	stored in the "transfer container". The container was not labeled or store closed (see violation W013 and W016 above). For transfer the words [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-12-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Site visit to get signature.
Eval Division:	Orange County Environmental Health
Eval Program:	CA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-31-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Consent to inspect and take photos was provided by Lance Luu. A walk through of the facility was conducted. The following Hazardous Substances were observed being stored at above the reporting threshold: HM -Argon Hydrogen Gas -Oxygen Gas -Acetylene Gas -Argon Gas -Nitrogen Gas -Nitrogen Liquid -Ferric Chloride: Etch Machine / Drums -Muriatic Acid 20% -Enthone developer -Milfloc 528 -Caustic Soda 50% -Surface Strip 446-1 -Simple Green Degreaser -Bright-Cut AH Metalworking Fluid HW -Wastewater w/acid, chrome, copper, nickel -Filter Cake / Sludge -Ferric Chloride Waste The following are missing from the Inventory in CERS: -Enthone Developer - Surface Strip Also please remove the Isopropyl Alcohol as it is below the reportable volume This facility is responsible for identifying all hazardous materials and hazardous wastes, which are above the following [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-13-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received call from Lance Luu regarding adding PE cert costs for FA requested in inspection reports. I explained that the cost needs to be added to the breakdown. He said he will submit revised documents by 5/22/15.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-13-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: BA/OW pg - owner name corrected
Eval Division:	Orange County Environmental Health

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Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-14-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: COMPLAINT GENERATED FOR ADMINISTRATIVE ENFORCEMENT ORDER TIME
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-14-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: COMPLAINT OPENED FOR ADMINISTRATIVE ENFORCEMENT ORDER TIME
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-14-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Show Cause Letter Received. Create Enforcement Folders. Download EC reports. Create HMSS AEO Facility Tabs. Generate Complaint and EN.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-14-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Show Cause Letter Received. Create Enforcement Folders. Download EC reports. Create HMSS AEO Facility Tabs. Generate Complaint and EN.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-22-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Begin Draft of Show Cause Letter
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-22-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Begin Draft of Show Cause Letter
Eval Division: Orange County Environmental Health
Eval Program: PBR

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-23-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Test Results---Write Report~!!!!!!
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-27-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Draft show cause letter. Email for review. Initial penalty calculation. Create folders for meeting. Book room for meeting.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-27-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Draft show cause letter. Email for review. Initial penalty calculation. Create folders for meeting. Book room for meeting.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-28-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Final Show Cause Letter. Signed and Sent Via Certified Mail 5-28-14. Liked letter to HMSS AEO Spreadsheet. Updated Email with Letter to Staff
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-28-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Final Show Cause Letter. Signed and Sent Via Certified Mail 5-28-14. Liked letter to HMSS AEO Spreadsheet. Updated Email with Letter to Staff
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-04-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval Notes:	Inspector Comments: Please be advised that this Agency has reviewed revised 2015 Certification Of Financial Assurance Form and Estimated Closure Cost. The 2015 Adjusted Closure Cost Estimate (CCE) was not properly calculated since the 2015 inflation factor (1.016) was not applied to line 4 on the closure cost breakdown table "Dispose of hazardous waste residuals..." Your total closure cost for 2015 is $12,312.92 rather than 12,272.89 listed in the breakdown. Corrected Certification Of Financial Assurance Form and Estimated Closure Cost must be submitted by 6/11/15.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-05-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Violation follow up. All violations have been abated this date.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-05-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Discussed facility’s financial assurance status with Christine Lane.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-09-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	06/09/2016 Your HMBEP has been declined and you need to revise and resubmit within 30 days: For you site Map, you just need to label your emergency staging area. If you have any questions you can email me at anesbit@ochaca.com Thank you
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-27-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed facility’s CERS HMBEP Submission. All submittal elements have been accepted for administrative completeness, however the emergency response/contingency plan’s contact list will need to be edited.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-08-2013
Violations Found:	No

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Eval Type:	Other, not routine, done by local agency
Eval Notes:	Put paper file (purple) Transfered to new paper file (yellow)
Eval Division:	Orange County Environmental Health
Eval Program:	CA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-14-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received follow-up inspection reports from Escobedo. Lab Results for TP and reports and HMSS Spreadsheet updated. AEO Meeting file updated.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-31-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine Permit By Rule Tiered Permitting inspection. Supervising Hazardous Materials Specialist Susan Berg accompanied me on the inspection. We met with Mr. Lance Luu and he provided consent to inspect and take photos of the facility. The facility uses a wastewater treatment unit to treat wastewater generated from the process consisting of developer liquids and etchants used on printed circuit boards. The wastewater is reportedly hazardous for pH, Chrome, and Copper. The wastewater is treated with acid/base ph adjustment and a flocculent to precipitate out the metals. The sludge is then put through a filter press to remove any liquids. The facility is regulated under Permit By Rule program for 1 Treatment Unit. The HW Treatment Notification Information submitted in CERS has incorrect information regarding treatment in containers (see violation). Mr. Luu, stated there has been no changes to the process and no releases of hazardous materials [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-04-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received email from Lance Luu stating the facility's hazardous waste hauler is scheduled to pick up waste on 9/4/18. A reinspection will be conducted on 9/6/18 to verify the facility has no waste exceeding 90 day storage accumulation limits and that containers missing labels have been labeled properly.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-06-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site to conduct a RCRA LQG Hazardous Waste reinspection. Consent to

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inspect was given by Lance Luu, Project Engineer. The facility's Hazardous Waste storage was observed and a walk through of the facility was conducted. The 55 gallon drum of waste filter press water filters dated 3/12/18 is no longer on site. Manifests were available for review showing the waste was hauled off site by Univar USA Inc. on 9/4/18, violation I125 is corrected. The 55 gallon drum of waste IPA wipes, which was missing a start date of accumulation on its label was also hauled off site on 9/4/18. The container of waste IPA wipes in the Quality Control room now has a properly filled out Hazardous Waste label, violation I562 is corrected. The facility has prepared and mailed their Biennial Report for 3/1/18 to DTSC. A USPS certified mail receipt dated 9/4/18 was observed, violation I206 is corrected. The facility has no outstanding violations remaining. A copy of this inspection was sent [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-15-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS 10537606 for the Tiered Permitting section was reviewed and not accepted today. The following comment was made: The TP PBR Treatment Unit forms have been reviewed and are not accepted today. The Tiered Permitting Unit PBR page was reviewed and the following corrections need to be made: - In section Treatment Unit Identification and Details, the number of Containers / Treatment Areas indicates 4 containers are being used in the treatment of HW. There is no treatment being conducted in containers. Please change this item on the page. - In section Permit by Rule (PBR)- Waste and Treatment Process Combinations, item #8 is marked Yes for a technology that is not being utilized (pH adjustment or neutralization). Please change this item on the page as the facility used item 1 for the pH Adjustment / Neutralization. Please update the submittal and re-submit within 30 days.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-23-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: INSPECTOR COMMENTS: Reviewed and declined the CERS tiered permitting CERS disclosure. This is a PBR facility and not a CE-CEL facility.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-27-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: File and violation review
Eval Division: Orange County Environmental Health
Eval Program: HMRRP

TAYCO ENGINEERING INC (Continued) **S113012004**

Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-27-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: File and violation review
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-27-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: File and violation review
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-27-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: INSPECTOR COMMENTS: On-site for a follow up inspection. Met with Lance Luu and discussed the open violations from the inspection report dated 05/05/16. Reviewed the CERS disclosure on-site this date. The training plan has been forwarded to this agency for review and is on-site. Abate violations I169 and I239 from the previous inspection report.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-27-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: INSPECTOR COMMENTS: On-site for a follow up inspection. Met with Lance Luu and discussed the open violations from the inspection report dated 05/05/16. Violation I325 has been corrected. A copy of the analytical results for the metal sanding dust was reviewed this date. This material appears to be non-hazardous. Violation I328 has not been corrected. Manifest 009433773 dated 06/02/16 was produced during the inspection as evidence that the Oakite waste observed during the last inspection with an accumulation date of 2011 was disposed of properly. The oakite waste does not appear to be in any of the three descriptions, but is listed in block 14 (special handling instructions). Please contact the hauler and determine if the waste oakite was hauled on this manifest, and if so, why wasn't the waste listed.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-27-2016
Violations Found: Yes

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Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS: On-site for a follow up inspection. Met with Lance Luu and discussed the open violations from the inspection report dated 05/05/16. Reviewed and completed the Tiered Permitting CERS disclosure on-site this date. The closure and waste analysis plans were on-site. Abate violations I335 and I675 from the previous inspection report. A violation for the failure to complete and submit a Phase I ENvironmental Checklist was cited today.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed and accepted the HMBP CERS disclosure.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed and accepted the tiered permitting CERS disclosure.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-30-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This Agency has received the following documents: - PE Assessment dated 9/4/19 Document has been updated to reflect both toxic and corrosive hazardous properties of waste on site. The following violation has been closed: -I012: PE Assessment of the hazardous waste tank system completed. The following violations remain outstanding: - I019: A written inspection schedule and most recent inspection logs of treatment system to this Agency. - I015: Estimate date of closure needed on Closure Plan. - I023: Waste analysis plan is incomplete. Please submit documentation to this Agency within 30 days to close out the outstanding violations. Contact me at acabudol@ochca.com or 714-625-2702 if you have questions.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-30-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following documents were received by this Agency: - Treatment system inspection program - Waste Analysis Plan - Laboratory test results The following violation has been corrected: - I019: Failure to prepare a treatment system inspection program and the log of

TAYCO ENGINEERING INC (Continued) **S113012004**

inspections conducted, and maintain onsite for three years The Waste Analysis Plan (WAP) submitted to this Agency is inadequate and does not meet the requirements set forth in 22 CCR 66265.13(a)(b). The following elements have not been met: - WAP shall specify parameters for which each hazardous waste will be analyzed and the rationale for the selection of these parameters - The facility is required to obtain a detailed chemical and physical analysis of a representative sample of the waste prior to transferring, treating, storing, or disposing of any hazardous waste WAP adequately describes test methods which will be used to test these parameters; however, test results indicate that samples [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-03-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: INSPECTOR COMMENTS: Received the TSDF signed copy of the manifest and the COD for the waste identified during the last routine inspection. Reviewed the documents this date. Abate violation I328 from the previous inspection reports.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-07-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On site to conduct re-inspection to verify compliance. Susan Berg with OCHCA is also present on site. Walked through the facility and observed hazardous waste storage areas. Observed hazardous waste storage areas and review documentation. Treatment Area: - Observed one 5-gal container of waste filter and pads and one 2.5-gal of waste pads in TP unit area. Containers were open and did not have labels. Operator labeled and placed lids on both containers. Per Mr. Luu, containers are emptied and waste is put into a 55-gal drum of waste filters. - Filter cake container label in treatment area has been corrected of labeling issues noted on the previous inspection. - Damaged bung cap noted on previous inspection has been replaced for 55-gal waste filter drum. Hazardous Waste Storage Area by Lab: - 5-gal container of Oakite 31 dated 4/29/19 and 2-gal container of used alcohol have been hauled. Manifests were available for review. Document Review: - Training [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-19-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS 10537606 was reviewed and is complete and accepted. The Facility information is complete and accepted. The Hazardous Materials Inventory is complete and accepted. NOTE: the Enthone and Surface

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Strip were added.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-19-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Onsite to conduct a follow-up Hazardous Waste inspection. I met with Lance Lu and he provided a copy of the disposal records for wastes stored beyond 90 days. The facility no longer has hazardous waste being stored beyond 90 days. Violation I328 is corrected. All hazardous waste containers and tanks were observed properly labeled. Violation I400 is corrected. The facility no longer stores the waste acids near the waste Potassium Hydroxide. Violation I118 is corrected. The facility has no outstanding Hazardous Waste violations at this time.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-19-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Onsite to conduct a follow-up TP PBR inspection. The CERS (10537606) submittal for the TP PBR Unit was updated and under review at this time. The facility updated the Treatment Unit Identification Page and Details and removed the indication of treatment in containers. The section Permit by Rule G Waste Treatment Process Combinations was updated and is complete. The CERS review began but was not completed today. The status is under review at this time. -An updated Waste Analysis Plan reviewed and is complete. Violation I675 is corrected. No outstanding TP PBR violations remain at this time.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-28-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a hazardous waste inspection. The inspection was conducted with Susan Berg, Supervising Hazardous Materials Specialist. The following documents were on site and available for review: - SB14 - Bienneial Report - Emergency Response Plan - Training Records - Manifests Walked throughout the facility. Observed hazardous waste storage areas. No hazardous waste or universal waste observed in the dumpster/enclosure area.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-28-2020
Violations Found: Yes

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Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a Tired Permitting- Permit by Rule inspection. The inspection was conducted with Susan Berg, Supervising Hazardous Materials Specialist. Facility conducts batch treatment of rinses that are hazardous for copper, chrome, and pH. Facility has one treatment unit and 2 tanks. The following documents were onsite and available for review: - Closure Plan - OC Sanitation District Permit - Waste Analysis Plan - PE certification dated 9/4/19 - Inspection logs The following violation was noted on a previous inspection report and remains OUTSTANDING: - I023: Failure of an owner or operator to obtain a detailed chemical and physical analysis of a representative sample of the waste, which includes all information necessary to manage waste in accordance with requirements, and to meet LDR requirements Please submit a complete WAP and laboratory analysis test results. Verify number of tanks and update in CERS within 30 days. Per on site [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-16-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The seismic assessment report detailing the structural calculations for the tank system was received. This addendum completes the initial Tank Assessment Report that was submitted on August 6, 2014. Structural calculations were performed by Lawrence Y Ho (Structural Engineer) of Englekirk Structural Engineers. After a review of the seismic assessment report, one item is required to finalize this report. - Engineers Certification Page. The certification needs to contain proper language required, a signature, and engineers stamp. Please submit this immediately to finalize the tank assessment report.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-17-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Spoke to HCA/Escobedo for update on open violations regarding PE Certification. Escobedo confirmed a re-submission. Violations Closed. Files updated.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-18-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS

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Eval General Type:	Other/Unknown
Eval Date:	12-24-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Denied. Reviewed HMBEP submission package on eSubmit Portal. Submission DENIED. Request for re-submittal.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-27-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The facility submitted the updated HMBEP and it was complete and accepted in CERS. The Hazardous Materials Inventory included the Ethone and Surface Strip and removed Isopropyl Alcohol in CERS. Violation I169 was updated as corrected in ECR today.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-13-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Final Payment Recorded. All violations corrected. Draft Compliance Letter. Email to HCA/Lane for review.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-15-2021
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The purpose of this offsite inspection is to follow up on a violation that was noted on a previous inspection report. The following violation is outstanding and must be corrected immediately: - I023: Failure of an owner or operator to obtain a detailed chemical and physical analysis of a representative sample of the waste, which includes all information necessary to manage waste in accordance with requirements, and to meet LDR requirements CORRECTIVE ACTION: Submit an updated Waste Analysis Plan to this Agency. A follow up inspection will be conducted within 30 days to assess compliance.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-15-2021
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The purpose of this offsite inspection is to follow up on violations that were noted on a previous inspection report. The following violations are outstanding and must be corrected IMMEDIATELY: - I126: Failure to provide employees with hazardous waste training program of

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class room instructions or on-the-job training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. CORRECTIVE ACTION: The facility must conduct and document annual training for employees as specified in the employee training plan. Submit a copy of the training document to this Agency. - I562: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date CORRECTIVE ACTION: Label all containers of hazardous waste with [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-15-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The purpose of this offsite inspection report is to follow up on violations that were noted on a previous inspection report. The following violations are outstanding and must be corrected IMMEDIATELY: - I169: Failure to electronically submit complete and accurate hazardous material inventory forms information for all reportable hazardous materials on site at or above quantities CORRECTIVE ACTION: Review comments in CERS, revise, and resubmit. - I632: Failure to electronically submit a site map with all required content CORRECTIVE ACTION: Review comments in CERS, and update site map to include all required elements. - I239: 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 CORRECTIVE ACTION: Provide all employees with required training that includes: safe handling [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-20-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Compliance Letter Drafted and SIGNED. Compliance Letter sent. CERS Updated and CERS Enforcement form generated. CO CLOSED. EN CLOSED. CERS form emailed to Cal EPA for posting. Closed AEO on HMSS Enforcement Spreadsheet. AEO CLOSED 1-20-2015.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-20-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Compliance Letter Drafted and SIGNED. Compliance Letter sent. CERS Updated and CERS Enforcement form generated. CO CLOSED. EN CLOSED. CERS form emailed to Cal EPA for posting. Closed AEO on HMSS

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	Enforcement Spreadsheet. AEO CLOSED 1-20-2015.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-04-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Denied Reviewed HMBEP submission package on eSubmit Portal. Submission DENIED. Request for re-submittal.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-08-2019
Violations Found:	No
Eval Type:	Industrial Storm Water Compliance Evaluation
Eval Notes:	Regional Board staff conducted a No Exposure Certification inspection of the above facility on February 8, 2019. Staff observed no violations at time if inspection. The yard did not have any exposed materials and thus is currently in compliance with the No Exposure Certification requirements as identified in the Industrial General Permit.
Eval Division:	Water Boards
Eval Program:	INDSTW
Eval Source:	SMARTS
Eval General Type:	Other/Unknown
Eval Date:	02-13-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Denied. Reviewed HMBEP submission package on eSubmit Portal. Submission DENIED. Request for re-submittal.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-18-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Please be advised that this Agency has reviewed Tiered Permitting Financial Assurance Self Certification for this facility. The 2014 Adjusted Closure Cost Estimate (CCE) was not properly calculated due to errors in the Estimated Closure Costs. According to new costs provided, the total 2014 CCE is $8519.02 and the 2014 Adjusted CCE after applying the salvage value ($2476.17), is $6042.85. Revised Certification Of Financial Assurance Form and Estimate Closure Cost (enclosed) must be submitted to this Agency by 3/17/14. Also, the salvage value of the assets has not been changed from the value listed in 2012. The salvage value of your assets must be reviewed on an annual basis to be sure that depreciation and changes made to your inventory of equipment are reflected in the salvage value estimate. If you believe that your salvage value has remained the same since 2012, be sure to maintain documentation reflecting your estimated salvage

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value.
Eval Division: Orange County Environmental Health
Eval Program: CA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-18-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Certificate of financial renewal received. The annual notification documents were received.
Eval Division: Orange County Environmental Health
Eval Program: CA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-19-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBEP Denied. Reviewed HMBEP submission package on eSubmit Portal. Submission DENIED. Request for re-submittal.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-24-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBEP Denied. Reviewed HMBEP submission package on eSubmit Portal. Submission DENIED. Request for re-submittal.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-02-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Please be advised that this Agency has reviewed revised 2017 Tiered Permitting Financial Assurance Self Certification documents submitted to CERS on 2/20/17. Reported closure cost and closure cost breakdown table are the reported values for 2016. Inflation factor for 2017 is 1.013. Therefore, your 2017 CCE is your 2016 CCE ($16,380.88) multiplied by a factor of 1.013 which is $16,593.83 (without applying salvage). Corrected Certification Of Financial Assurance Form and Estimated Closure Cost form must be submitted within 30 days of this inspection report.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-03-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBEP Approved. The following documents were received and ACCEPTED on

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	the eSubmit Portal: Business Activities Form Business Owner/Operator Form Chemical Inventory for (# of chemicals) Facility Site Map
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-25-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspector Comments: Please be advised that this Agency has reviewed the 2016 Tiered Permitting Financial Assurance Self Certification documents for this facility. Breakdown of closure costs with new estimate, was reviewed. However, Certification Of Financial Assurance Form was not submitted. Certification Of Financial Assurance Form must be submitted by 4/8/16.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-26-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: Facility created account in CERS for TP-FA
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-02-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received the UPC forms, onsite hazardous waste treatment notification facility page, and facility/system layout diagrams. Forms appear to be administratively complete.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-05-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspector Comments: Revised financial assurance documents submitted to CERS on 4/4/16 were reviewed. The electronic Tiered Permitting Financial Assurance field in CERS must be used to submit the financial certification document. You cannot use the Miscellaneous tab to upload the document. Certification Of Financial Assurance form must be submitted by 4/22/16.
Eval Division:	Orange County Environmental Health
Eval Program:	PBR
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-08-2016
Violations Found:	No

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Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review: BA/OW page - not accepted - put President name in Owner field - requested update
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-21-2020
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Facility conducts treatment of rinse waters for copper, chrome and pH under the Tiered Permit Permit by Rule Tier (PBR). As a facility that conducts treatment under PBR you are required to submit an adjusted closure close estimate and report detailing treatment activities. During the 08/22/2019 onsite inspection the following was observed: -I023: Waste Analysis Plan observed to be missing parameters for which each waste will be analyzed and test method(s) for sampling -I015: Closure Plan observed to be missing maximum inventory of waste in storage and in treatment, description of steps required to decontaminate -I019: written inspection schedule unavailable To date a copy of the revised Waste Analysis Plan, Closure Plan and Inspection schedule have not been provided to this agency. Violations I023, I015 and I019 remain outstanding with this agency. Provide the documentation listed in this inspection report to this agency immediately.
Eval Division: Orange County Environmental Health
Eval Program: PBR
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-24-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBEP Denied due to inaccurate Chemical Description.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Site Address: 10874 HOPE ST
Site City: CYPRESS
Site Zip: 90630
Enf Action Date: 05-14-2014
Enf Action Type: AEO - Unified Program
Enf Action Description: Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes: Fines/Penalties Assessed: $20,000.00. TAYCO ENGINEERING INC 10874 HOPE STREET CYPRESS, CA 90630 FA0025720 HW: PR0026735 TPCA: PR0030629.
Enf Action Division: Orange County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Site Address: 10874 HOPE ST

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Site City: CYPRESS
Site Zip: 90630
Enf Action Date: 09-01-2020
Enf Action Type: AEO - Unified Program
Enf Action Description: Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes: Fines/Penalties Assessed: $33,500.00. SEPs Value: $10,000.00.
Enf Action Division: Orange County Environmental Health
Enf Action Program: HWLQG
Enf Action Source: CERS

Site ID: 363815
Site Name: TAYCO ENGINEERING INC
Site Address: 10874 HOPE ST
Site City: CYPRESS
Site Zip: 90630
Enf Action Date: 09-01-2020
Enf Action Type: AEO - Unified Program
Enf Action Description: Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes: Fines/Penalties Assessed: $33,500.00. SEPs Value: $10,000.00.
Enf Action Division: Orange County Environmental Health
Enf Action Program: PBR
Enf Action Source: CERS

Coordinates:
Site ID: 363815
Facility Name: TAYCO ENGINEERING INC
Env Int Type Code: HWG
Program ID: 10537606
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.804360
Longitude: -118.023220

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Lance Luu
Entity Title: Not reported
Affiliation Address: 10874 HOPE ST
Affiliation City: CYPRESS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90630
Affiliation Phone: Not reported

Affiliation Type Desc: Owner/Operator
Entity Name: Tayco Engineering, Inc
Entity Title: Operator
Affiliation Address: 10874 Hope Street10874 Hope Street
Affiliation City: Cypress
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90630
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: TAYCO ENGINEERING INC

TAYCO ENGINEERING INC (Continued) **S113012004**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	10874 HOPE ST
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90630
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Tayco Engineering, Inc.
Entity Title:	Not reported
Affiliation Address:	10874 HOPE ST
Affiliation City:	CYPRESS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90630
Affiliation Phone:	(714) 952-2240
Affiliation Type Desc:	Document Preparer
Entity Name:	Lance Luu
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406
Affiliation Type Desc:	Identification Signer
Entity Name:	Lance Luu
Entity Title:	Safety Director
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

TAYCO ENGINEERING INC (Continued) **S113012004**

Affiliation Type Desc:	Onsite Treatment Unit Owner Operator
Entity Name:	Lance Luu
Entity Title:	Safety and Hazardous Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Tayco Engineering, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 952-2240

HWTS:

Name:	TAYCO ENGINEERING INC
Address:	10874 HOPE ST
Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 906300000
EPA ID:	CAD982004632
Inactive Date:	Not reported
Create Date:	06/17/1988
Last Act Date:	07/14/2020
Mailing Name:	Not reported
Mailing Address:	10874 HOPE ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CYPRESS, CA 906305214
Owner Name:	TAYCO ENGINEERING INC
Owner Address:	10874 HOPE ST
Owner Address 2:	Not reported
Owner City,State,Zip:	CYPRESS, CA 906300000
Contact Name:	LANCE LUU
Contact Address:	10874 HOPE ST
Contact Address 2:	Not reported
City,State,Zip:	CYPRESS, CA 90630

NAICS:

EPA ID:	CAD982004632
Create Date:	2020-06-16 11:56:33.323
NAICS Code:	333414
NAICS Description:	Heating Equipment (except Warm Air Furnaces) Manufacturing
Issued EPA ID Date:	1988-06-17 00:00:00
Inactive Date:	Not reported
Facility Name:	TAYCO ENGINEERING INC
Facility Address:	10874 HOPE ST
Facility Address 2:	Not reported
Facility City:	CYPRESS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	906300000

TAYCO ENGINEERING INC (Continued) **S113012004**

EPA ID:	CAD982004632
Create Date:	2020-06-16 11:56:41.307
NAICS Code:	334511
NAICS Description:	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing
Issued EPA ID Date:	1988-06-17 00:00:00
Inactive Date:	Not reported
Facility Name:	TAYCO ENGINEERING INC
Facility Address:	10874 HOPE ST
Facility Address 2:	Not reported
Facility City:	CYPRESS
Facility County:	Not reported
Facility State:	CA
Facility Zip:	906300000

Z114 **TAYCO ENGINEERING, INC** **RCRA-LQG** **1000262650**
East **10874 HOPE STREET** **ENVIROSTOR** **CAD982004632**
1/4-1/2 **CYPRESS, CA 90630** **FINDS**
0.347 mi. **ECHO**
1832 ft. **Site 2 of 2 in cluster Z** **EMI**

Relative: **Higher**

Actual: **41 ft.**

RCRA-LQG:

Date Form Received by Agency:		2020-06-15 00:00:00.0
Handler Name:	TAYCO ENGINEERING, INC	
Handler Address:		10874 HOPE STREET
Handler City,State,Zip:		CYPRESS, CA 90630
EPA ID:		CAD982004632
Contact Name:		LANCE LUU
Contact Address:		HOPE STREET
Contact City,State,Zip:		CYPRESS, CA 90630
Contact Telephone:		714-952-2240
Contact Fax:		714-952-2042
Contact Email:		LANCEL@TAYCOENG.COM
Contact Title:		H & S MANAGER
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Large 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:		HOPE STREET
Mailing City,State,Zip:		CYPRESS, CA 90630
Owner Name:		JAY CHUNG
Owner Type:		Private
Operator Name:		JAY CHUNG
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

TAYCO ENGINEERING, INC (Continued) **1000262650**

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:	2020-06-16 14:57:04.0
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: 2019

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:

TAYCO ENGINEERING, INC (Continued) **1000262650**

Hazardous Waste Summary:
Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D006
Waste Description: CADMIUM

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: F006
Waste Description: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: CHARLES TAYLOR
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 10874 HOPE ST
Owner/Operator City,State,Zip: CYPRESS, CA 90630
Owner/Operator Telephone: 714-952-2240
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: LANCE LUU
Legal Status: Private
Date Became Current: 2000-10-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 10874 HOPE STREET
Owner/Operator City,State,Zip: CYPRESS, CA 90630
Owner/Operator Telephone: 714-952-2240
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: LANCEL@TAYCOENG.COM

Owner/Operator Indicator: Owner
Owner/Operator Name: DR. JAY CHUNG
Legal Status: Private
Date Became Current: 2000-10-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 10874 HOPE STREET
Owner/Operator City,State,Zip: CYPRESS, CA 90630
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported

TAYCO ENGINEERING, INC (Continued) **1000262650**

Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	JAY CHUNG
Legal Status:	Private
Date Became Current:	2000-10-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	10874 HOPE STREET
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-952-2240
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	JAY CHUNG
Legal Status:	Private
Date Became Current:	2000-10-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	10874 HOPE STREET
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
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:	DR. JAY CHUNG
Legal Status:	Private
Date Became Current:	2000-10-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	10874 HOPE STREET
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	DR. JAY CHUNG
Legal Status:	Private
Date Became Current:	2000-10-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	CA 90630
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	DR. JAY CHUNG
Legal Status:	Private
Date Became Current:	2000-10-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	10874 HOPE STREET

TAYCO ENGINEERING, INC (Continued) **1000262650**

Owner/Operator City,State,Zip: CYPRESS, CA 90630
Owner/Operator Telephone: 714-952-2240
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2010-08-04 00:00:00.0
Handler Name: TAYCO ENGINEERING, INC
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: 2020-06-11 00:00:00.0
Handler Name: TAYCO ENGINEERING, INC
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: No
Electronic Manifest Broker: No

Receive Date: 1992-11-02 00:00:00.0
Handler Name: TAYCO ENGINEERING INC
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: 2020-06-15 00:00:00.0
Handler Name: TAYCO ENGINEERING, INC
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: Yes
Non Storage Recycler Activity: No

TAYCO ENGINEERING, INC (Continued) **1000262650**

Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 333414
NAICS Description: HEATING EQUIPMENT (EXCEPT WARM AIR FURNACES) MANUFACTURING

NAICS Code: 334511
NAICS Description: SEARCH, DETECTION, NAVIGATION, GUIDANCE, AERONAUTICAL, AND NAUTICAL SYSTEM AND INSTRUMENT MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

ENVIROSTOR:
Name: TAYCO ENGINEERING, INC.
Address: 10874 HOPE STREET
City,State,Zip: CYPRESS, CA 90630
Facility ID: 71002954
Status: Inactive - Needs Evaluation
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Cypress
Assembly: 65
Senate: 29
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.80470
Longitude: -118.0241
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD982004632
Alias Type: EPA Identification Number
Alias Name: 110002773570
Alias Type: EPA (FRS #)
Alias Name: 71002954
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE

TAYCO ENGINEERING, INC (Continued) **1000262650**

Completed Sub Area Name: Not reported
Completed Document Type: Phase 1 Non-Submittal
Completed Date: 12/06/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

FINDS:
Registry ID: 110002773570

Click Here:

Environmental Interest/Information System:
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) 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.
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000262650
Registry ID: 110002773570
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002773570
Name: TAYCO ENGINEERING, INC
Address: 10874 HOPE ST
City,State,Zip: CYPRESS, CA 90630

EMI:
Name: GENISCO TECH CORP, MEMORY PROD
Address: 10874 HOPE ST
City,State,Zip: CYPRESS, CA 906300000
Year: 1987

TAYCO ENGINEERING, INC (Continued) **1000262650**

County Code:	30
Air Basin:	SC
Facility ID:	40138
Air District Name:	SC
SIC Code:	3679
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	GENISCO TECH CORP, MEMORY PROD
Address:	10874 HOPE ST
City,State,Zip:	CYPRESS, CA 906300000
Year:	1990
County Code:	30
Air Basin:	SC
Facility ID:	40138
Air District Name:	SC
SIC Code:	3825
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Count: 3 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ANAHEIM	S120834782	ANAHEIM CONVENTION CENTER	800 KATELLA AVE	92804	LUST
BUENA PARK	S121696856	NORGE LAUNDRY & DRY CLEANING VILLA	8932 B VALLEY VIEW ST	90620	DRYCLEANERS
LOS ALAMITOS	S121699767	BENJAMIN B & MARIA L BARAJAS DBA	NE CRN LOS ALAMITOS & KATELLA	90720	DRYCLEANERS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/30/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
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: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 39

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 02/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 02/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/24/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 85

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/08/2021
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 83

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST: 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: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 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 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

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST 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: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST 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: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

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: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

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: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/29/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

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: 03/05/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 04/01/2021
Number of Days to Update: 23
Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Semi-Annually

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: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST 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: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST 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: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

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: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST 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: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST 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: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST 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: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: No Update Planned

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: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

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: No Update Planned

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
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: 03/15/2021
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: No Update Planned

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

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/22/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 02/24/2021
Date Data Arrived at EDR: 02/24/2021
Date Made Active in Reports: 05/14/2021
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/11/2021
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: 03/02/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 77

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/24/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 85
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
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: 04/04/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78
Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)
Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22
Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)
Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50
Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 02/11/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 47

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: 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: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
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: 05/18/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 04/30/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: No Update Planned

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: 05/07/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/17/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/16/2021
Number of Days to Update: 87

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/19/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 01/22/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/14/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/05/2021
Number of Days to Update: 50

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/19/2020
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
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: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: No Update Planned

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/11/2021
Date Made Active in Reports: 05/11/2021
Number of Days to Update: 61

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/14/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 70

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/07/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: No Update Planned

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: 04/27/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 07/14/2021
Date Made Active in Reports: 07/16/2021
Number of Days to Update: 2
Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151
Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3
Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 04/28/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74
Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16
Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/11/2021
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: No Update Planned

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: No Update Planned

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 05/27/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 14

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 09/13/2021
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: 02/01/2021
Date Data Arrived at EDR: 02/24/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/06/2021
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: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/23/2021
Date Data Arrived at EDR: 03/25/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 84

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/14/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/03/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 33

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/04/2021
Date Data Arrived at EDR: 04/06/2021
Date Made Active in Reports: 06/25/2021
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
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: 11/03/2020
Date Data Arrived at EDR: 11/17/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/07/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

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: 02/17/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 79

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/04/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 77

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Annually

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 02/26/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 02/23/2021
Date Data Arrived at EDR: 02/25/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 83

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 06/16/2020
Date Made Active in Reports: 08/28/2020
Number of Days to Update: 73

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 04/16/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 04/14/2021
Date Data Arrived at EDR: 04/15/2021
Date Made Active in Reports: 07/06/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/08/2021
Date Data Arrived at EDR: 02/12/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 82

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/16/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 05/07/2021
Number of Days to Update: 79

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/16/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/05/2021
Date Data Arrived at EDR: 04/06/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 01/29/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/08/2021
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 05/04/2021
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 03/02/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 78

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/12/2021
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 11/19/2019
Date Data Arrived at EDR: 01/07/2020
Date Made Active in Reports: 03/09/2020
Number of Days to Update: 62

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
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: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 06/07/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 05/19/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

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: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: No Update Planned

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: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: No Update Planned

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: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: No Update Planned

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: 04/08/2021
Date Data Arrived at EDR: 04/09/2021
Date Made Active in Reports: 04/20/2021
Number of Days to Update: 11
Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3
Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 03/17/2021
Date Data Arrived at EDR: 03/18/2021
Date Made Active in Reports: 03/25/2021
Number of Days to Update: 7

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List

Cupa Facility List

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing

Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 06/15/2021
Date Data Arrived at EDR: 06/16/2021
Date Made Active in Reports: 07/02/2021
Number of Days to Update: 16

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
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: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 04/21/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 81

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 12/17/2020
Date Data Arrived at EDR: 01/28/2021
Date Made Active in Reports: 04/16/2021
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 01/14/2021
Date Data Arrived at EDR: 01/15/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 80

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 2

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/10/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/14/2021
Date Data Arrived at EDR: 04/15/2021
Date Made Active in Reports: 07/06/2021
Number of Days to Update: 82

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 04/22/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 01/28/2021
Number of Days to Update: 7

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/10/2021
Date Data Arrived at EDR: 02/12/2021
Date Made Active in Reports: 03/11/2021
Number of Days to Update: 27

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/06/2021
Next Scheduled EDR Contact: 10/25/2021
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: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 04/08/2021
Date Data Arrived at EDR: 04/13/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 76

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/12/2021
Date Data Arrived at EDR: 04/13/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 76

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 81

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/06/2021
Next Scheduled EDR Contact: 10/25/2021
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: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 02/04/2021
Date Data Arrived at EDR: 04/16/2021
Date Made Active in Reports: 04/21/2021
Number of Days to Update: 5

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 07/12/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 11

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
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: 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: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
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: 03/02/2021
Date Data Arrived at EDR: 04/16/2021
Date Made Active in Reports: 07/06/2021
Number of Days to Update: 81

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/06/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: No Update Planned

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/24/2021
Date Data Arrived at EDR: 04/07/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/04/2021
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 9

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 06/02/2021
Next Scheduled EDR Contact: 09/06/3021
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/23/2021
Date Data Arrived at EDR: 06/23/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 1

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
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: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 04/29/2021
Date Made Active in Reports: 07/15/2021
Number of Days to Update: 77

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/12/2021
Number of Days to Update: 9

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/29/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/30/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 05/26/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 6

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 14

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 14
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/07/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 03/30/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 03/30/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/25/2021
Number of Days to Update: 85
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 04/29/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 4
Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 05/19/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 06/07/2021
Number of Days to Update: 19
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 03/02/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/21/2021
Number of Days to Update: 79

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: No Update Planned

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 05/07/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 05/14/2021
Number of Days to Update: 3

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/06/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/02/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: No Update Planned

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: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/24/2021
Date Data Arrived at EDR: 02/26/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 82

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: No Update Planned

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/23/2021
Date Data Arrived at EDR: 03/25/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 77

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 09/12/2021
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/28/2021
Next Scheduled EDR Contact: 10/04/2021
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: 04/01/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/06/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 04/14/2021
Date Data Arrived at EDR: 04/15/2021
Date Made Active in Reports: 07/06/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 04/26/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/29/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 81
Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
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: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/29/2021
Date Data Arrived at EDR: 04/21/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 2
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/26/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 04/21/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 05/12/2021
Number of Days to Update: 20

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 10/05/2020
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 82

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 04/30/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/07/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 02/24/2021
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/13/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

GOODMAN
5757 PLAZA DRIVE
CYPRESS, CA 90630

TARGET PROPERTY COORDINATES

Latitude (North):	33.805668 - 33° 48' 20.40''
Longitude (West):	118.033132 - 118° 1' 59.28''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	404371.7
UTM Y (Meters):	3740895.0
Elevation:	38 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5633745 LOS ALAMITOS, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

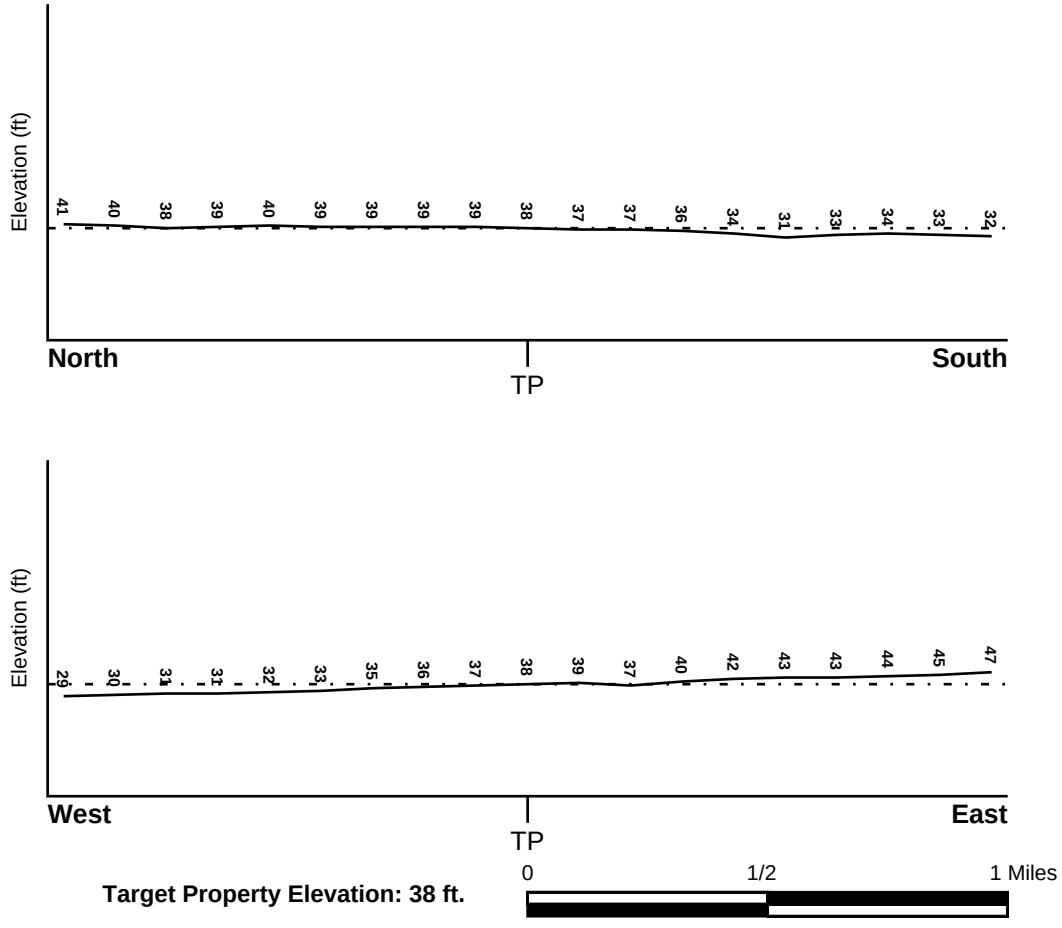
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 38 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C2000F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
LOS ALAMITOS	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
1	1/4 - 1/2 Mile WSW	Varies
A6	1/4 - 1/2 Mile NE	SW
36	1/2 - 1 Mile ESE	S
H43	1/2 - 1 Mile NNW	SSW
I48	1/2 - 1 Mile NNE	NW
52	1/2 - 1 Mile ESE	Varies
1G	1/2 - 1 Mile NNE	NW
2G	1/2 - 1 Mile NNW	SSW

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
3G	1/4 - 1/2 Mile NE	SW
5G	1/2 - 1 Mile ESE	S
6G	1/2 - 1 Mile ESE	Varies
7G	1/4 - 1/2 Mile WSW	Varies

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

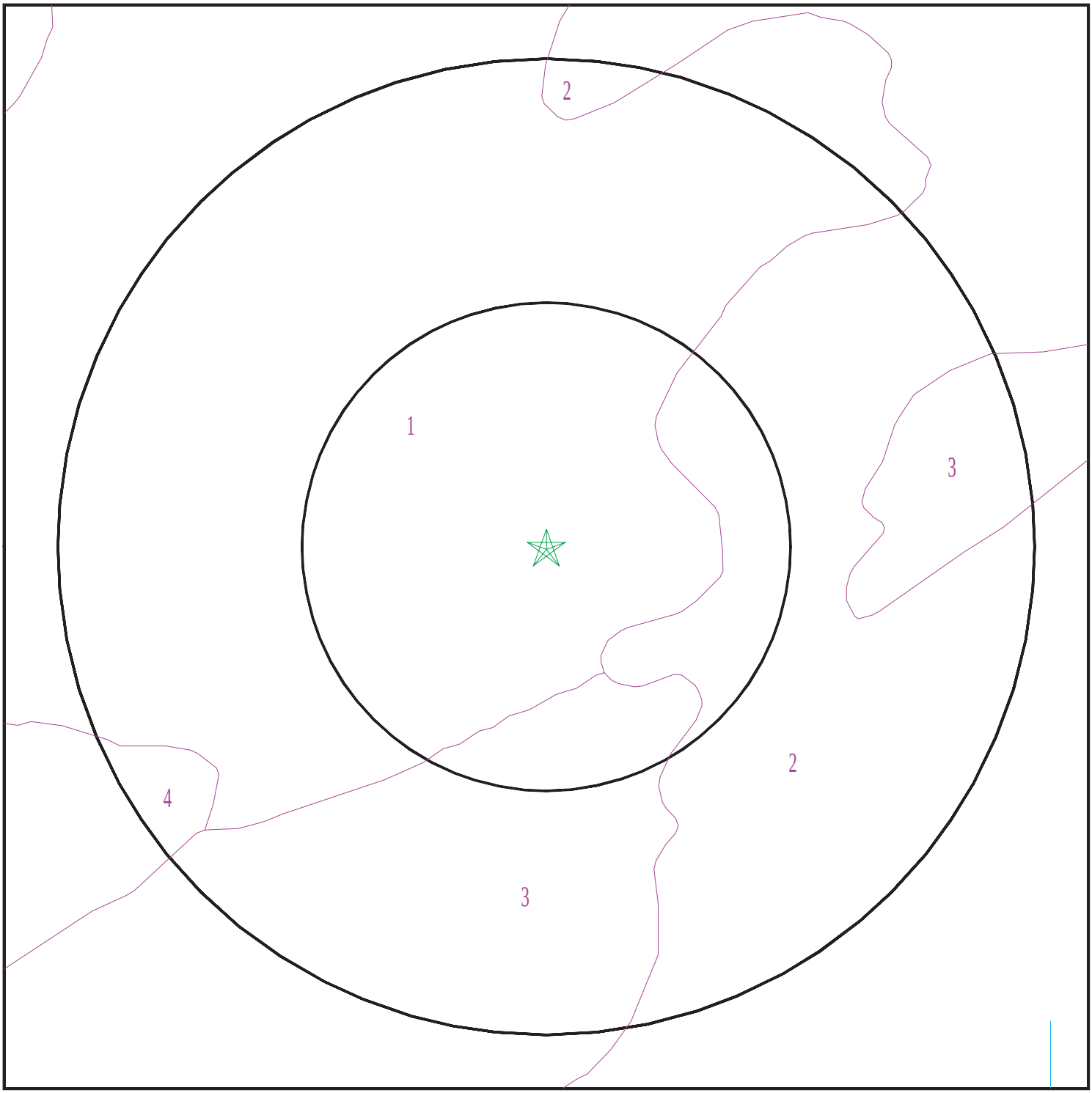
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 6586541.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Goodman	CLIENT:	Stantec
ADDRESS:	5757 Plaza Drive Cypress CA 90630	CONTACT:	Alicia Jansen
LAT/LONG:	33.805668 / 118.033132	INQUIRY #:	6586541.2s
		DATE:	July 21, 2021 3:57 pm

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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: SAN EMIGDIO

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Not reported	Not reported	Max: 42 Min: 14	Max: 8.4 Min: 7.9
2	7 inches	61 inches	stratified gravelly loamy coarse sand to very fine sandy loam	Not reported	Not reported	Max: 42 Min: 14	Max: 8.4 Min: 7.9

Soil Map ID: 2

Soil Component Name: SAN EMIGDIO

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 14	Max: 8.4 Min: 7.9
2	7 inches	40 inches	stratified gravelly loamy coarse sand to very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 14	Max: 8.4 Min: 7.9
3	40 inches	44 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 14	Max: 8.4 Min: 7.9
4	44 inches	61 inches	stratified gravelly loamy coarse sand to very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 14	Max: 8.4 Min: 7.9

Soil Map ID: 3

Soil Component Name: METZ

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	loamy sand	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: 14 Min: 4	Max: 8.4 Min: 6.6
2	16 inches	62 inches	stratified sand to 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: 14 Min: 4	Max: 8.4 Min: 6.6

Soil Map ID: 4

Soil Component Name: HUENEME

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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	27 inches	fine sandy loam	Not reported	Not reported	Max: 42 Min: 14	Max: 8.4 Min: 7.4
2	27 inches	59 inches	stratified sand to silt loam	Not reported	Not reported	Max: 42 Min: 14	Max: 8.4 Min: 7.4

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C11	USGS40000138297	1/2 - 1 Mile ESE
M90	USGS40000138224	1/2 - 1 Mile SSE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
H42	CA3000825	1/2 - 1 Mile NNW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	CAEDF0000067943	1/4 - 1/2 Mile NE
A3	CAEDF0000083487	1/4 - 1/2 Mile NE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A4	CAEDF0000099419	1/4 - 1/2 Mile NE
5	CADWR0000013573	1/4 - 1/2 Mile WNW
B8	CAEDF0000099283	1/4 - 1/2 Mile SW
B9	CAEDF0000103681	1/4 - 1/2 Mile SW
C10	CADWR9000005602	1/4 - 1/2 Mile ESE
12	CADWR0000001083	1/2 - 1 Mile North
D13	CAEDF0000132663	1/2 - 1 Mile WSW
D14	CAEDF0000056796	1/2 - 1 Mile WSW
D15	CAEDF0000098723	1/2 - 1 Mile WSW
D16	CAEDF0000135666	1/2 - 1 Mile WSW
D17	CAEDF0000113666	1/2 - 1 Mile WSW
D18	CAEDF0000068910	1/2 - 1 Mile WSW
D19	CAEDF0000124157	1/2 - 1 Mile WSW
D20	CAEDF0000070091	1/2 - 1 Mile WSW
D21	CAEDF0000096640	1/2 - 1 Mile WSW
D22	CAEDF0000066435	1/2 - 1 Mile WSW
D23	CAEDF0000105492	1/2 - 1 Mile WSW
D24	CAEDF0000041235	1/2 - 1 Mile WSW
D25	CAEDF0000076184	1/2 - 1 Mile WSW
D26	CAEDF0000108476	1/2 - 1 Mile WSW
D27	CAEDF0000072880	1/2 - 1 Mile WSW
D28	CAEDF0000136701	1/2 - 1 Mile WSW
D29	CAEDF0000080258	1/2 - 1 Mile WSW
D30	CAEDF0000113357	1/2 - 1 Mile WSW
D31	CAEDF0000091490	1/2 - 1 Mile WSW
E32	5247	1/2 - 1 Mile West
F33	CAEDF0000130725	1/2 - 1 Mile ESE
F34	CAEDF0000066282	1/2 - 1 Mile ESE
F35	CAEDF0000020892	1/2 - 1 Mile ESE
E37	CADDW0000008178	1/2 - 1 Mile West
E38	CAUSGSN00005825	1/2 - 1 Mile West
E39	CAUSGS000002633	1/2 - 1 Mile West
G40	CADDW0000004948	1/2 - 1 Mile North
G41	5248	1/2 - 1 Mile North
I44	5237	1/2 - 1 Mile NNE
J45	CAEDF0000045441	1/2 - 1 Mile WNW
J46	CAEDF0000040768	1/2 - 1 Mile WNW
J47	CAEDF0000118725	1/2 - 1 Mile WNW
J49	CAEDF0000136647	1/2 - 1 Mile WNW
J50	CAEDF0000105037	1/2 - 1 Mile WNW
J51	CAEDF0000078721	1/2 - 1 Mile WNW
J53	CAEDF0000080316	1/2 - 1 Mile WNW
I54	CAEDF0000079134	1/2 - 1 Mile NNE
K55	CAEDF0000004709	1/2 - 1 Mile NNE
J56	CAEDF0000072490	1/2 - 1 Mile WNW
I57	CAEDF0000039062	1/2 - 1 Mile NNE
I58	CAEDF0000035855	1/2 - 1 Mile NNE
I59	CAEDF0000013221	1/2 - 1 Mile NNE
I60	CAEDF0000052367	1/2 - 1 Mile NNE
I61	CAEDF0000021648	1/2 - 1 Mile NNE
I62	CAEDF0000125661	1/2 - 1 Mile NNE
I63	CAEDF0000123298	1/2 - 1 Mile NNE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

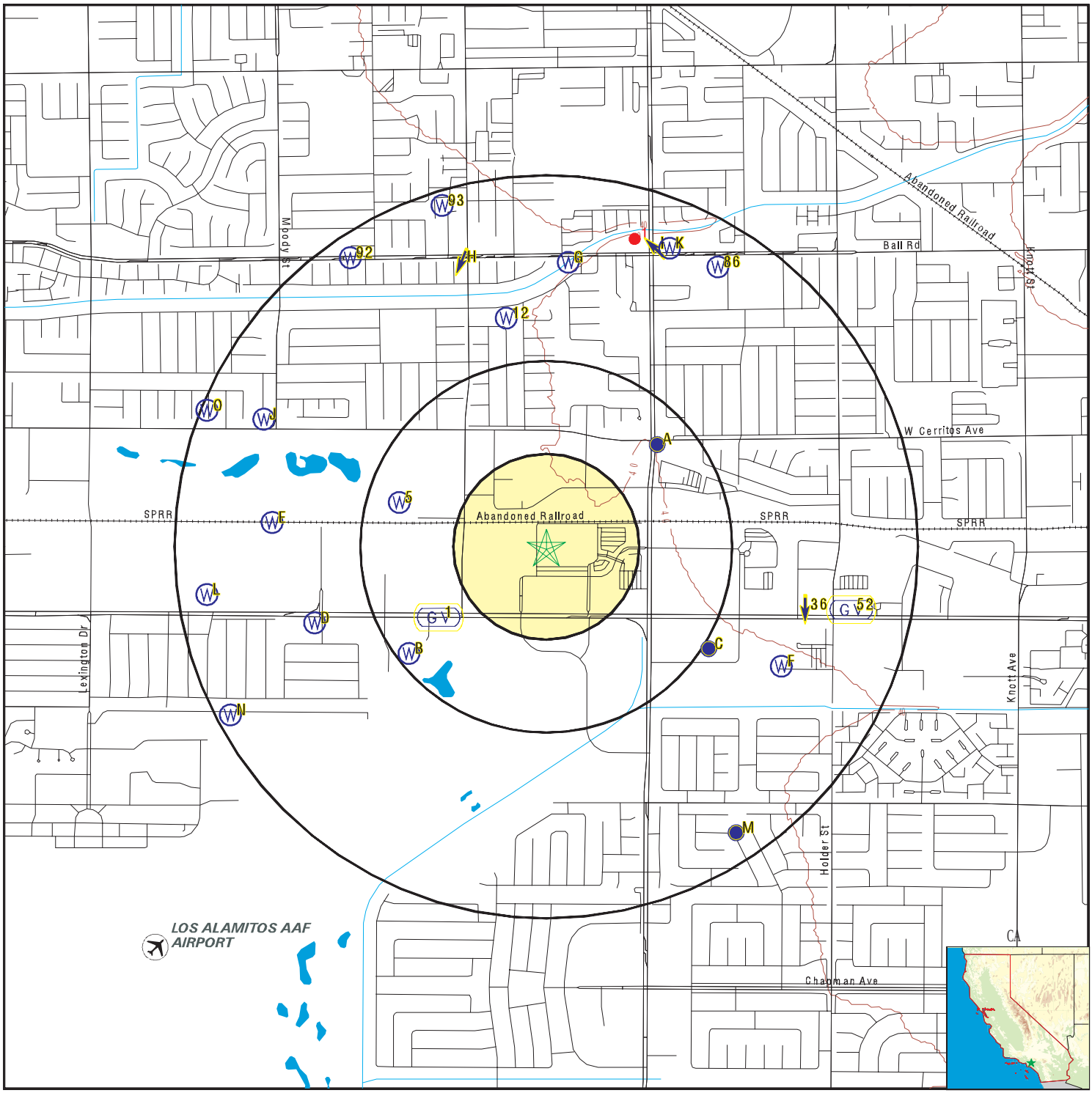
MAP ID	WELL ID	LOCATION FROM TP
I64	CAEDF0000116440	1/2 - 1 Mile NNE
K65	CAEDF0000128450	1/2 - 1 Mile NNE
I66	CAEDF0000023736	1/2 - 1 Mile NNE
I67	CAEDF0000079841	1/2 - 1 Mile NNE
I68	CAEDF0000084304	1/2 - 1 Mile NNE
K69	CAEDF0000050284	1/2 - 1 Mile NNE
K70	CAEDF0000015779	1/2 - 1 Mile NNE
K71	CAEDF0000060777	1/2 - 1 Mile NNE
K72	CAEDF0000074555	1/2 - 1 Mile NNE
K73	CAEDF0000126755	1/2 - 1 Mile NNE
K74	CAEDF0000122265	1/2 - 1 Mile NNE
K75	CAEDF0000109217	1/2 - 1 Mile NNE
I76	CAEDF0000034858	1/2 - 1 Mile NNE
I77	CAEDF0000109284	1/2 - 1 Mile NNE
I78	CAEDF0000133896	1/2 - 1 Mile NNE
I79	CAEDF0000055983	1/2 - 1 Mile NNE
K80	CAEDF0000066668	1/2 - 1 Mile NNE
K81	CAEDF0000052520	1/2 - 1 Mile NNE
K82	CAEDF0000096721	1/2 - 1 Mile NNE
I83	CAEDF0000080286	1/2 - 1 Mile NNE
K84	CAEDF0000048120	1/2 - 1 Mile NNE
K85	CAEDF0000090999	1/2 - 1 Mile NNE
86	CADDW0000018292	1/2 - 1 Mile NNE
K87	CAEDF0000099745	1/2 - 1 Mile NNE
L88	CADWR0000031472	1/2 - 1 Mile West
L89	CADWR0000020776	1/2 - 1 Mile West
M91	CAUSGSN00019106	1/2 - 1 Mile SSE
92	5250	1/2 - 1 Mile NW
93	CADWR9000005692	1/2 - 1 Mile NNW
N94	CAEDF0000043394	1/2 - 1 Mile WSW
N95	CAEDF0000077329	1/2 - 1 Mile WSW
O96	CADWR0000033234	1/2 - 1 Mile WNW
O97	CADWR0000031889	1/2 - 1 Mile WNW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CAOG14000006102	1/2 - 1 Mile NNE

PHYSICAL SETTING SOURCE MAP - 6586541.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Goodman	CLIENT:	Stantec
ADDRESS:	5757 Plaza Drive Cypress CA 90630	CONTACT:	Alicia Jansen
		INQUIRY #:	6586541.2s
LAT/LONG:	33.805668 / 118.033132	DATE:	July 21, 2021 3:57 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

			Database	EDR ID Number
1 **WSW** **1/4 - 1/2 Mile** **Lower**	Site ID:	083000585T	**AQUIFLOW**	**68297**
	Groundwater Flow:	Varies		
	Shallow Water Depth:	4.75		
	Deep Water Depth:	7.13		
	Average Water Depth:	Not Reported		
	Date:	03/31/1999		

A2
NE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000067943**

Well ID:	T0605948555-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=T0605948555&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605948555&assigned_name=MW-1		

A3
NE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000083487**

Well ID:	T0605948555-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=T0605948555&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605948555&assigned_name=MW-3		

A4
NE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000099419**

Well ID:	T0605948555-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605948555&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605948555&assigned_name=MW-2		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

5
WNW
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR0000013573**

Well ID:	04S11W21L001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	04S11W21L001S	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=04S11W21L001S&store_num=		
GeoTracker Data:	Not Reported		

A6
NE
1/4 - 1/2 Mile
Higher

AQUIFLOW **68233**

Site ID:	083002920T
Groundwater Flow:	SW
Shallow Water Depth:	5
Deep Water Depth:	8
Average Water Depth:	Not Reported
Date:	07/26/1995

A7
NE
1/4 - 1/2 Mile
Higher

AQUIFLOW **66460**

Site ID:	083000718T
Groundwater Flow:	Not Reported
Shallow Water Depth:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	7.75
Date:	08/26/1992

B8
SW
1/4 - 1/2 Mile
Lower

CA WELLS **CAEDF0000099283**

Well ID:	T0605969865-A44-1B	Well Type:	MONITORING
Source:	EDF	Other Name:	A44-1B
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605969865&assigned_name=A44-1B&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605969865&assigned_name=A44-1B		

B9
SW
1/4 - 1/2 Mile
Lower

CA WELLS **CAEDF0000103681**

Well ID:	T0605969865-A44-1A	Well Type:	MONITORING
Source:	EDF	Other Name:	A44-1A
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605969865&assigned_name=A44-1A&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605969865&assigned_name=A44-1A		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C10
ESE
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR9000005602**

State Well #:	04S11W27D001S	Station ID:	28324
Well Name:	Not Reported	Basin Name:	Coastal Plain Of Orange County
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

C11
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000138297**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S011W27D001S	Type:	Well
Description:	Not Reported	HUC:	18070201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	900
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	85	Level reading date:	1986-09-02
Feet below surface:	65.33	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1986-05-06	Feet below surface:	52.91
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-02-20	Feet below surface:	46.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-11-05	Feet below surface:	59.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-08-17	Feet below surface:	61.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-07	Feet below surface:	46.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-04-15	Feet below surface:	38.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-02-14	Feet below surface:	34.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-11-01	Feet below surface:	57.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-10-09	Feet below surface:	56.71
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1984-09-06	Feet below surface:	61.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-08-07	Feet below surface:	60.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-07-03	Feet below surface:	56.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-06-04	Feet below surface:	51.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-05-07	Feet below surface:	36.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-04-02	Feet below surface:	33.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-03-07	Feet below surface:	30.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-02-16	Feet below surface:	27.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-03	Feet below surface:	46.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-10-13	Feet below surface:	48.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-09-01	Feet below surface:	58.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-08-02	Feet below surface:	57.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-07-05	Feet below surface:	55.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-06-09	Feet below surface:	50.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-12	Feet below surface:	42.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-03	Feet below surface:	41.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-10	Feet below surface:	41.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-04	Feet below surface:	56.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-07-28	Feet below surface:	59.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-04-29	Feet below surface:	45.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-29	Feet below surface:	38.40
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-11-03	Feet below surface:	53.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-28	Feet below surface:	57.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-07	Feet below surface:	41.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-05	Feet below surface:	40.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-28	Feet below surface:	53.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-26	Feet below surface:	54.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-10	Feet below surface:	48.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-07	Feet below surface:	46.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-15	Feet below surface:	54.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-01	Feet below surface:	49.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-02	Feet below surface:	48.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-05	Feet below surface:	47.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-11-03	Feet below surface:	60.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-09-25	Feet below surface:	62.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-13	Feet below surface:	60.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-28	Feet below surface:	65.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-05	Feet below surface:	62.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-09	Feet below surface:	51.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-06	Feet below surface:	58.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-10-31	Feet below surface:	66.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-29	Feet below surface:	65.30
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1975-06-26	Feet below surface:	65.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-18	Feet below surface:	46.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-03	Feet below surface:	50.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-10-30	Feet below surface:	57.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-08-29	Feet below surface:	75.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-02	Feet below surface:	62.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04-30	Feet below surface:	47.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-18	Feet below surface:	50.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-23	Feet below surface:	47.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-10-31	Feet below surface:	60.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-06	Feet below surface:	61.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-07-03	Feet below surface:	61.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-09	Feet below surface:	47.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-01	Feet below surface:	48.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-01-04	Feet below surface:	48.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-10-31	Feet below surface:	54.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-09-11	Feet below surface:	58.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-06-29	Feet below surface:	54.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-04-28	Feet below surface:	45.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-02-28	Feet below surface:	40.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-11-01	Feet below surface:	43.40
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1971-08-30	Feet below surface:	43.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-07-07	Feet below surface:	41.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-06-07	Feet below surface:	42.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-04-29	Feet below surface:	36.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-04-12	Feet below surface:	36.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-03-02	Feet below surface:	31.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-12-09	Feet below surface:	43.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-10-29	Feet below surface:	44.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-10-01	Feet below surface:	43.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-06-29	Feet below surface:	41.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-05-29	Feet below surface:	35.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-04-28	Feet below surface:	27.70
Feet to sea level:	Not Reported	Note:	Not Reported

12
North
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000001083**

Well ID:	04S11W21B001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	04S11W21B001S	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=04S11W21B001S&store_num=		
GeoTracker Data:	Not Reported		

D13
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000132663**

Well ID:	T0605900471-BC-1	Well Type:	MONITORING
Source:	EDF	Other Name:	BC-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=T0605900471&assigned_name=BC-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605900471&assigned_name=BC-1		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D14
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000056796**

Well ID:	T0605900471-MW-32	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-32
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605900471&assigned_name=MW-32&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605900471&assigned_name=MW-32		

D15
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000098723**

Well ID:	T0605900471-BC-11	Well Type:	MONITORING
Source:	EDF	Other Name:	BC-11
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605900471&assigned_name=BC-11&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605900471&assigned_name=BC-11		

D16
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000135666**

Well ID:	T0605900471-MW-34	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-34
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605900471&assigned_name=MW-34&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605900471&assigned_name=MW-34		

D17
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000113666**

Well ID:	T0605900471-MW-31	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-31
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605900471&assigned_name=MW-31&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605900471&assigned_name=MW-31		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D18
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000068910**

Well ID:	T0605900471-MW-28	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-28
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605900471&assigned_name=MW-28&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605900471&assigned_name=MW-28		

D19
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000124157**

Well ID:	T0605900471-BC-5	Well Type:	MONITORING
Source:	EDF	Other Name:	BC-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=T0605900471&assigned_name=BC-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605900471&assigned_name=BC-5		

D20
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000070091**

Well ID:	T0605900471-MW-30	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-30
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605900471&assigned_name=MW-30&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605900471&assigned_name=MW-30		

D21
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000096640**

Well ID:	T0605900471-MW-29	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-29
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605900471&assigned_name=MW-29&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605900471&assigned_name=MW-29		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D22
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000066435**

Well ID:	T0605900471-MW-33	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-33
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605900471&assigned_name=MW-33&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605900471&assigned_name=MW-33		

D23
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000105492**

Well ID:	T0605900471-MW-35	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-35
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605900471&assigned_name=MW-35&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605900471&assigned_name=MW-35		

D24
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000041235**

Well ID:	T0605900471-BC-10	Well Type:	MONITORING
Source:	EDF	Other Name:	BC-10
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605900471&assigned_name=BC-10&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605900471&assigned_name=BC-10		

D25
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000076184**

Well ID:	T0605900471-BC-7	Well Type:	MONITORING
Source:	EDF	Other Name:	BC-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605900471&assigned_name=BC-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605900471&assigned_name=BC-7		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D26
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000108476**

Well ID:	T0605900471-BC-25	Well Type:	MONITORING
Source:	EDF	Other Name:	BC-25
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605900471&assigned_name=BC-25&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605900471&assigned_name=BC-25		

D27
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000072880**

Well ID:	T0605900471-BC-24	Well Type:	MONITORING
Source:	EDF	Other Name:	BC-24
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605900471&assigned_name=BC-24&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605900471&assigned_name=BC-24		

D28
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000136701**

Well ID:	T0605900471-BC-9	Well Type:	MONITORING
Source:	EDF	Other Name:	BC-9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605900471&assigned_name=BC-9&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605900471&assigned_name=BC-9		

D29
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000080258**

Well ID:	T0605900471-BC-23	Well Type:	MONITORING
Source:	EDF	Other Name:	BC-23
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605900471&assigned_name=BC-23&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605900471&assigned_name=BC-23		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D30
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000113357**

Well ID:	T0605900471-BC-12	Well Type:	MONITORING
Source:	EDF	Other Name:	BC-12
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605900471&assigned_name=BC-12&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605900471&assigned_name=BC-12		

D31
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000091490**

Well ID:	T0605900471-MW-36	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-36
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605900471&assigned_name=MW-36&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605900471&assigned_name=MW-36		

E32
West
1/2 - 1 Mile
Lower

CA WELLS **5247**

Seq:	5247	Prim sta c:	04S/11W-20R02 S
Frds no:	3000819001	County:	30
District:	08	User id:	TEE
System no:	3000819	Water type:	G
Source nam:	WELL 01 DOMESTIC WELL	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	334825.0	Longitude:	1180240.0
Precision:	3	Status:	AU
Comment 1:	4961 KATELLA AVE LOS ALAMITOS	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:	3000819	System nam:	Los Alamitos Race Course
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	400	Connection:	0
Area serve:	Not Reported		

Sample date:	04-JAN-18	Finding:	9.39
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		

Sample date:	04-JAN-18	Finding:	2.57
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

Dlr:	0.		
Sample date:	04-JAN-18	Finding:	6.9e-002
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-JAN-18	Finding:	0.4
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-JAN-18	Finding:	0.697
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-JAN-18	Finding:	5.65
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	04-JAN-18	Finding:	1.52
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-JAN-18	Finding:	1.28
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-JAN-18	Finding:	0.47
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-JAN-18	Finding:	0.322
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JAN-15	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	05-JAN-15	Finding:	0.1
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JAN-15	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-JAN-15	Finding:	173.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JAN-15	Finding:	173.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JAN-15	Finding:	211.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JAN-15	Finding:	61.2
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	05-JAN-15	Finding:	14.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JAN-15	Finding:	34.8
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JAN-15	Finding:	2.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JAN-15	Finding:	26.4
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JAN-15	Finding:	63.8
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	05-JAN-15	Finding:	0.51
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	05-JAN-15	Finding:	4.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-JAN-15	Finding:	142.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	05-JAN-15	Finding:	334.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JAN-15	Finding:	0.7
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	05-JAN-15	Finding:	541.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	22-OCT-14	Finding:	128.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	01-JUL-14	Finding:	134.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	01-JUL-14	Finding:	0.418
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Report units:	PCI/L	Dlr:	0.
Sample date:	01-JUL-14	Finding:	4.33
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	01-JUL-14	Finding:	1.74
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

Dlr:	0.		
Sample date:	01-JUL-14	Finding:	0.449
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-JUL-14	Finding:	3.08
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	01-JUL-14	Finding:	0.949
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-JUL-14	Finding:	1.11
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-JUL-14	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-JUL-14	Finding:	0.253
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-JUL-14	Finding:	0.451
Chemical:	RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0		
Report units:	PCI/L	Dlr:	0.
Sample date:	01-JUL-14	Finding:	0.354
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-APR-14	Finding:	194.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	16-JAN-14	Finding:	146.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	09-OCT-13	Finding:	201.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	02-JUL-13	Finding:	152.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	11-APR-13	Finding:	558.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	11-APR-13	Finding:	3.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	21-JAN-13	Finding:	221.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		

Sample date:	04-OCT-12	Finding:	222.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	02-JUL-12	Finding:	155.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	30-APR-12	Finding:	155.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	03-JAN-12	Finding:	175.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JAN-12	Finding:	198.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JAN-12	Finding:	56.2
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JAN-12	Finding:	13.9
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JAN-12	Finding:	34.4
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JAN-12	Finding:	2.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JAN-12	Finding:	25.9
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JAN-12	Finding:	61.1
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-JAN-12	Finding:	0.53
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-JAN-12	Finding:	4.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-JAN-12	Finding:	215.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	03-JAN-12	Finding:	325.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JAN-12	Finding:	0.7
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU

Dlr:	0.1		
Sample date:	03-JAN-12	Finding:	175.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JAN-12	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-JAN-12	Finding:	4.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	03-JAN-12	Finding:	542.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

F33
ESE **CA WELLS** **CAEDF0000130725**
1/2 - 1 Mile
Higher

Well ID:	T0605994617-MW1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605994617&assigned_name=MW1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605994617&assigned_name=MW1		

F34
ESE **CA WELLS** **CAEDF0000066282**
1/2 - 1 Mile
Higher

Well ID:	T0605994617-MW2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605994617&assigned_name=MW2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605994617&assigned_name=MW2		

F35
ESE **CA WELLS** **CAEDF0000020892**
1/2 - 1 Mile
Higher

Well ID:	T0605994617-MW3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605994617&assigned_name=MW3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605994617&assigned_name=MW3		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

			Database	EDR ID Number
36 **ESE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083001446T S 7 7.5 Not Reported 08/27/1990	**AQUIFLOW**	**54899**

E37
West
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000008178**

Well ID:	3000819-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 01 DOMESTIC WELL	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=3000819-001&store_num=		
GeoTracker Data:	Not Reported		

E38
West
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00005825**

Well ID:	USGS-334800118460001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334800118460001	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-334800118460001&store_num=		
GeoTracker Data:	Not Reported		

E39
West
1/2 - 1 Mile
Lower

CA WELLS **CAUSGS000002633**

Well ID:	CLABOC-22	Well Type:	MUNICIPAL
Source:	United States Geological Survey		
Other Name:	CLABOC-22	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGS&samp_date=&global_id=&assigned_name=CLABOC-22&store_num=		
GeoTracker Data:	Not Reported		

G40
North
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000004948**

Well ID:	3010022-016	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	BALL ROAD	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=3010022-016&store_num=		

GeoTracker Data: Not Reported

G41
North
1/2 - 1 Mile
Higher

CA WELLS 5248

Seq:	5248	Prim sta c:	04S/11W-21A01 S
Frds no:	3010022016	County:	30
District:	08	User id:	TEE
System no:	3010022	Water type:	G
Source nam:	BALL ROAD	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	334901.1	Longitude:	1180154.7
Precision:	2	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3010022	System nam:	Southern Calif Wc - West Orange
Hqname:	SOUTHERN CALIF WATER CO	Address:	1920 W. CORPORATE WAY
City:	ANAHEIM	State:	CA
Zip:	92801	Zip ext:	Not Reported
Pop serv:	84737	Connection:	25347
Area serve:	LOS ALAMITOS		

Sample date:	12-FEB-18	Finding:	1.36
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	12-FEB-18	Finding:	32.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		

Sample date:	12-FEB-18	Finding:	1.35
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	05-FEB-18	Finding:	42.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		

Sample date:	11-OCT-17	Finding:	40.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		

Sample date:	10-OCT-17	Finding:	45.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		

Sample date:	13-FEB-17	Finding:	1.42
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	13-FEB-17	Finding:	1.42
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	04-APR-16	Finding:	1.3
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	04-APR-16	Finding:	0.24
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAR-16	Finding:	1.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-MAR-16	Finding:	0.2
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-16	Finding:	676.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	09-FEB-16	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-FEB-16	Finding:	180.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-16	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-16	Finding:	1.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-FEB-16	Finding:	257.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-16	Finding:	76.5
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-16	Finding:	16.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-16	Finding:	38.9
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-16	Finding:	2.9
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-16	Finding:	39.6
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-16	Finding:	92.2
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	09-FEB-16	Finding:	0.48
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	09-FEB-16	Finding:	2.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-FEB-16	Finding:	444.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-16	Finding:	0.2
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	09-FEB-16	Finding:	0.11
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-16	Finding:	1.5
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-FEB-16	Finding:	1.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JAN-16	Finding:	1.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-DEC-15	Finding:	1.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-NOV-15	Finding:	1.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-OCT-15	Finding:	1.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-SEP-15	Finding:	1.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-MAY-15	Finding:	32.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	15-MAY-15	Finding:	0.3
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAY-15	Finding:	210.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	03-FEB-15	Finding:	6.05
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	03-FEB-15	Finding:	1370.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-JAN-15	Finding:	240.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JAN-15	Finding:	410.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JAN-15	Finding:	15.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JAN-15	Finding:	73.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-DEC-14	Finding:	75.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-DEC-14	Finding:	250.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	29-DEC-14	Finding:	390.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	29-DEC-14	Finding:	15.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-MAR-14	Finding:	6.83
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	19-MAR-14	Finding:	1.59
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-MAR-14	Finding:	1.11
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-MAR-14	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-MAR-14	Finding:	0.253
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-MAR-14	Finding:	3.1e-002
Chemical:	RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0		
Report units:	PCI/L	Dlr:	0.

Sample date:	19-MAR-14	Finding:	0.106
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-MAR-14	Finding:	0.418
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Report units:	PCI/L	Dlr:	0.
Sample date:	19-MAR-14	Finding:	0.447
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-MAR-14	Finding:	1.97
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-MAR-14	Finding:	6.37
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	19-MAR-14	Finding:	1530.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-MAR-14	Finding:	6.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-MAR-14	Finding:	25.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	20-FEB-13	Finding:	249.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	20-FEB-13	Finding:	0.1
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	20-FEB-13	Finding:	0.2
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	20-FEB-13	Finding:	6.63
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-FEB-13	Finding:	406.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	20-FEB-13	Finding:	3.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-FEB-13	Finding:	0.48
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	20-FEB-13	Finding:	94.6
Chemical:	SULFATE	Report units:	MG/L

Dlr:	0.5		
Sample date:	20-FEB-13	Finding:	683.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	20-FEB-13	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	20-FEB-13	Finding:	184.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	20-FEB-13	Finding:	224.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	20-FEB-13	Finding:	1500.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-FEB-13	Finding:	73.9
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	20-FEB-13	Finding:	15.7
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	20-FEB-13	Finding:	37.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	20-FEB-13	Finding:	2.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	20-FEB-13	Finding:	40.5
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JAN-13	Finding:	420.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JAN-13	Finding:	16.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JAN-13	Finding:	74.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JAN-13	Finding:	250.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JAN-13	Finding:	8.87
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		

Sample date:	14-JAN-13	Finding:	1.02
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-JAN-13	Finding:	8.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-JAN-13	Finding:	1.72
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-JAN-13	Finding:	7.77
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	7.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-FEB-12	Finding:	1680.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-JAN-12	Finding:	410.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	04-JAN-12	Finding:	80.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-JAN-12	Finding:	260.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	04-JAN-12	Finding:	16.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		

H42
NNW
1/2 - 1 Mile
Higher

FRDS PWS **CA3000825**

Epa region:	09	State:	CA
Pwsid:	CA3000825	Pwsname:	SOUTH MIDWAY CITY MUTUAL WATER C
Cityserved:	Not Reported	Stateserved:	CA
Zipserved:	Not Reported	Fipscounty:	06059
Status:	Active	Retpopsrvd:	717
Pwssvcconn:	64	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	HARBOLDT, SHARON	Contactorgname:	HARBOLDT, SHARON
Contactphone:	714-963-7175	Contactaddress1:	10101 SLATER AVE SUITE 138
Contactaddress2:	Not Reported	Contactcity:	FOUNTAIN VALLEY
Contactstate:	CA	Contactzip:	92708
Pwsactivitycode:	A		
Pwsid:	CA3000825	Facid:	640
Facname:	NORTH WELL CHLORINATION	XCLD	
Factype:	Treatment_plant	Facactivitycode:	A

Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		
PWS ID:	CA3000825	PWS name:	SOUTH MIDWAY CITY MUTUAL WATER CO
Address:	Not Reported	Care of:	Not Reported
City:	MIDWAY CITY	State:	CA
Zip:	90630	Owner:	SOUTH MIDWAY CITY MUTUAL WATER CO
Source code:	Ground water	Population:	224
PWS ID:	CA3000825	PWS type:	System Owner/Responsible Party
PWS name:	SOUTH MIDWAY CITY	PWS address:	Not Reported
PWS city:	MIDWAY CITY	PWS state:	CA
PWS zip:	90630	PWS name:	South Midway City Mutual Water Co.
PWS type code:	C	Retail population served:	717
Contact:	Sharon Harboldt	Contact address:	10101 Slater Ave Suite 138
Contact address:	Fountain Valley	Contact city:	CA
Contact state:	92	Contact zip:	7149637175
Contact telephone:	Not Reported		
PWS ID:	CA3000825	Activity status:	Active
Date system activated:	8404	Date system deactivated:	Not Reported
Retail population:	00000224	System name:	SOUTH MIDWAY CITY MUTUAL WATER CO
System address:	SOUTH MIDWAY CITY	System address:	VAN BUREN AVE
System city:	MIDWAY CITY	System state:	CA
System zip:	90630		
Population served:	101 - 500 Persons	Treatment:	Untreated
Latitude:	334900	Longitude:	1180211
Violation id:	108003	Orig code:	S
State:	CA	Violation Year:	2001
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	25	Violation name:	Monitoring, Repeat Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	04/01/2001
Cmp edt:	05/31/2001		
Violation id:	95V0001	Orig code:	F
State:	CA	Violation Year:	1993
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	51	Violation name:	Initial Tap Sampling for Pb and Cu
Rule code:	350	Rule name:	LCR
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	07/01/1993
Cmp edt:	12/31/2003		
Violation ID:	108003	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	07/09/2001
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	95V0001	Orig Code:	F
Enforcemnt FY:	2004	Enforcement Action:	12/31/2003
Enforcement Detail:	Fed Compliance achieved	Enforcement Category:	Resolving
PWS name:	South Midway City Mutual Water Co.		
Population served:	717	PWS type code:	C
Violation ID:	0108003	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Repeat Major (TCR)		
Compliance start date:	4/1/2001 0:00:00	Compliance end date:	5/31/2001 0:00:00
Enforcement date:	7/9/2001 0:00:00	Enforcement action:	State Public Notif Requested

Violation measurement:	Not Reported		
PWS name:	South Midway City Mutual Water Co.		
Population served:	717	PWS type code:	C
Violation ID:	95V0001	Contaminant:	LEAD & COPPER RULE
Violation type:	Initial Tap Sampling for Pb and Cu		
Compliance start date:	7/1/1993 0:00:00	Compliance end date:	12/31/2003 0:00:00
Enforcement date:	12/31/2003 0:00:00	Enforcement action:	Fed Compliance Achieved
Violation measurement:	0		

H43
NNW
1/2 - 1 Mile
Higher

Site ID:	083001501T
Groundwater Flow:	SSW
Shallow Water Depth:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	8
Date:	02/10/1992

AQUIFLOW **38612**

I44
NNE
1/2 - 1 Mile
Higher

CA WELLS **5237**

Seq:	5237	Prim sta c:	04S/11W-16H02 S
Frds no:	3010022013	County:	30
District:	08	User id:	TEE
System no:	3010022	Water type:	G
Source nam:	VALLEY VIEW	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	334901.0	Longitude:	1180141.3
Precision:	2	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3010022	System nam:	Southern Calif Wc - West Orange
Hqname:	SOUTHERN CALIF WATER CO	Address:	1920 W. CORPORATE WAY
City:	ANAHEIM	State:	CA
Zip:	92801	Zip ext:	Not Reported
Pop serv:	84737	Connection:	25347
Area serve:	LOS ALAMITOS		

Sample date:	20-MAR-13	Finding:	3.96
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	20-MAR-13	Finding:	900.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	14-JAN-13	Finding:	7.73
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		

Sample date:	14-JAN-13	Finding:	360.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	14-JAN-13	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	14-JAN-13	Finding:	63.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JAN-13	Finding:	210.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	470.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-FEB-12	Finding:	2.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-JAN-12	Finding:	210.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	04-JAN-12	Finding:	62.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-JAN-12	Finding:	350.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	04-JAN-12	Finding:	13.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		

J45
WNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000045441**

Well ID:	T0605902092-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=T0605902092&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605902092&assigned_name=MW-5		

J46
WNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000040768**

Well ID:	T0605902092-MW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605902092&assigned_name=MW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605902092&assigned_name=MW-6		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

		Database	EDR ID Number
J47 **WNW** **1/2 - 1 Mile** **Lower**		**CA WELLS**	**CAEDF0000118725**

Well ID:	T0605902092-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=T0605902092&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605902092&assigned_name=MW-4		

I48 **NNE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083001687T NW Not Reported Not Reported 10.76 01/29/1999		**AQUIFLOW**	**54966**

		Database	EDR ID Number
J49 **WNW** **1/2 - 1 Mile** **Lower**		**CA WELLS**	**CAEDF0000136647**

Well ID:	T0605902092-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=T0605902092&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605902092&assigned_name=MW-3		

		Database	EDR ID Number
J50 **WNW** **1/2 - 1 Mile** **Lower**		**CA WELLS**	**CAEDF0000105037**

Well ID:	T0605902092-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605902092&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605902092&assigned_name=MW-2		

		Database	EDR ID Number
J51 **WNW** **1/2 - 1 Mile** **Lower**		**CA WELLS**	**CAEDF0000078721**

Well ID:	T0605902092-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7

GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605902092&assigned_name=MW-7&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605902092&assigned_name=MW-7

52
ESE
1/2 - 1 Mile
Higher

Site ID: 083001539T
Groundwater Flow: Varies
Shallow Water Depth: 35.76
Deep Water Depth: 36.95
Average Water Depth: Not Reported
Date: 07/1991

AQUIFLOW **50958**

J53
WNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000080316**

Well ID: T0605902092-MW-1
Source: EDF
Well Type: MONITORING
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=T0605902092&assigned_name=MW-1&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605902092&assigned_name=MW-1

I54
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000079134**

Well ID: T0605901273-MW-11
Source: EDF
Well Type: MONITORING
Other Name: MW-11
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=MW-11&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=MW-11

K55
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000004709**

Well ID: T0605901273-MW-12
Source: EDF
Well Type: MONITORING
Other Name: MW-12
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=MW-12&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=MW-12

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

J56
WNW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000072490**

Well ID:	T0605902092-MW-8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605902092&assigned_name=MW-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605902092&assigned_name=MW-8		

I57
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000039062**

Well ID:	T0605901273-MW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=MW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=MW-6		

I58
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000035855**

Well ID:	T0605901273-RW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	RW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=RW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=RW-6		

I59
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000013221**

Well ID:	T0605901273-RW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	RW-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=RW-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=RW-7		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I60
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000052367**

Well ID:	T0605901273-MW-15	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-15
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=MW-15&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=MW-15		

I61
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000021648**

Well ID:	T0605901273-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=MW-2		

I62
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000125661**

Well ID:	T0605902188-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=T0605902188&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605902188&assigned_name=MW-1		

I63
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000123298**

Well ID:	T0605901273-MW-13	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-13
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=MW-13&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=MW-13		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I64
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000116440**

Well ID:	T0605902188-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605902188&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605902188&assigned_name=MW-2		

K65
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000128450**

Well ID:	T0605901273-RW-8	Well Type:	MONITORING
Source:	EDF	Other Name:	RW-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=RW-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=RW-8		

I66
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000023736**

Well ID:	T0605901273-TCW	Well Type:	MONITORING
Source:	EDF	Other Name:	TCW
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=TCW&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=TCW		

I67
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000079841**

Well ID:	T0605901273-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=T0605901273&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=MW-1		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I68
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000084304**

Well ID:	T0605901273-RW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	RW-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=T0605901273&assigned_name=RW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=RW-3		

K69
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000050284**

Well ID:	T0605901273-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=T0605901273&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=MW-4		

K70
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000015779**

Well ID:	T0605901273-RW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	RW-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=T0605901273&assigned_name=RW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=RW-4		

K71
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000060777**

Well ID:	T0605901273-RW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	RW-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=T0605901273&assigned_name=RW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=RW-5		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

K72
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000074555**

Well ID:	T0605901273-MW-16AA	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-16AA
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=MW-16AA&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=MW-16AA		

K73
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000126755**

Well ID:	T0605901273-MW-16B	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-16B
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=MW-16B&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=MW-16B		

K74
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000122265**

Well ID:	T0605901273-MW-16C	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-16C
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=MW-16C&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=MW-16C		

K75
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000109217**

Well ID:	T0605901273-MW-16A	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-16A
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=MW-16A&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=MW-16A		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I76
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000034858**

Well ID:	T0605901273-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=MW-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=MW-7		

I77
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000109284**

Well ID:	T0605901273-RW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	RW-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=T0605901273&assigned_name=RW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=RW-1		

I78
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000133896**

Well ID:	T0605902188-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=T0605902188&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605902188&assigned_name=MW-3		

I79
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000055983**

Well ID:	T0605901273-MW-14	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-14
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=MW-14&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=MW-14		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

K80
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000066668**

Well ID:	T0605901273-MW-8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=MW-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=MW-8		

K81
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000052520**

Well ID:	T0605901273-RW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	RW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=RW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=RW-2		

K82
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000096721**

Well ID:	T0605901273-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=T0605901273&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=MW-5		

I83
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000080286**

Well ID:	T0605901273-MW-10	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-10
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=MW-10&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=MW-10		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

K84
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000048120**

Well ID:	T0605901273-RW-10	Well Type:	MONITORING
Source:	EDF	Other Name:	RW-10
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=RW-10&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=RW-10		

K85
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000090999**

Well ID:	T0605901273-RW-9	Well Type:	MONITORING
Source:	EDF	Other Name:	RW-9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=RW-9&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=RW-9		

86
NNE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000018292**

Well ID:	3010003-017	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	BALL WELL	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=3010003-017&store_num=		
GeoTracker Data:	Not Reported		

K87
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000099745**

Well ID:	T0605901273-RW-11	Well Type:	MONITORING
Source:	EDF	Other Name:	RW-11
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605901273&assigned_name=RW-11&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605901273&assigned_name=RW-11		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

L88
West
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000031472**

Well ID:	04S11W20R001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	04S11W20R001S	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=04S11W20R001S&store_num=		
GeoTracker Data:	Not Reported		

L89
West
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000020776**

Well ID:	04S11W20R002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	04S11W20R002S	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=04S11W20R002S&store_num=		
GeoTracker Data:	Not Reported		

M90
SSE
1/2 - 1 Mile
Lower

FED USGS **USGS40000138224**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S011W27L002S	Type:	Well
Description:	NAWQA DATA ENTRY COM + VER 07/05/2000 SNHAMLIN		
HUC:	18070203	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	California Coastal Basin aquifers
Formation Type:	Quaternary Alluvium	Aquifer Type:	Unconfined single aquifer
Construction Date:	19991207	Well Depth:	18.5
Well Depth Units:	ft	Well Hole Depth:	18.5
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	2000-06-19
Feet below surface:	6.28	Feet to sea level:	Not Reported
Note:	Not Reported		

M91
SSE
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00019106**

Well ID:	USGS-334740118012701	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334740118012701	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-334740118012701&store_num=		

GeoTracker Data: Not Reported

92
NW
1/2 - 1 Mile
Lower

CA WELLS 5250

Seq:	5250	Prim sta c:	04S/11W-22D01 S
Frds no:	3010003017	County:	30
District:	08	User id:	TEE
System no:	3010003	Water type:	G
Source nam:	BALL WELL	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	334901.3	Longitude:	1180229.3
Precision:	2	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3010003	System nam:	City Of Buena Park
Hqname:	Not Reported	Address:	6650 BEACH BLVD
City:	BUENA PARK	State:	CA
Zip:	90620	Zip ext:	Not Reported
Pop serv:	72550	Connection:	18211
Area serve:	BUENA PARK		

Sample date:	11-OCT-17	Finding:	27.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		

Sample date:	13-JUL-17	Finding:	37.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		

Sample date:	13-JUL-17	Finding:	0.46
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	06-APR-17	Finding:	390.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	06-APR-17	Finding:	1.09
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	06-APR-17	Finding:	625.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

Sample date:	06-APR-17	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		

Sample date:	06-APR-17	Finding:	177.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	06-APR-17	Finding:	216.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L

Dlr:	0.		
Sample date:	06-APR-17	Finding:	1.09
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-APR-17	Finding:	247.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-APR-17	Finding:	76.7
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-APR-17	Finding:	13.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-APR-17	Finding:	38.8
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-APR-17	Finding:	2.9
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-APR-17	Finding:	35.5
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	06-APR-17	Finding:	78.5
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	06-APR-17	Finding:	0.45
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	06-APR-17	Finding:	4.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-APR-17	Finding:	40.7
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	25-JAN-17	Finding:	64.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-NOV-16	Finding:	59.7
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	21-JUL-16	Finding:	0.52
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	19-JUL-16	Finding:	62.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		

Sample date:	29-JUN-16	Finding:	71.4
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	29-JUN-16	Finding:	0.48
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	29-JUN-16	Finding:	68.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	27-APR-16	Finding:	0.52
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	26-APR-16	Finding:	0.59
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-APR-16	Finding:	70.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	26-APR-16	Finding:	0.61
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-JAN-16	Finding:	58.9
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	21-OCT-15	Finding:	62.1
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	07-OCT-15	Finding:	0.47
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	23-JUL-15	Finding:	60.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	23-JUL-15	Finding:	0.47
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	01-JUL-15	Finding:	0.47
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-JUN-15	Finding:	0.47
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	06-MAY-15	Finding:	0.51
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	15-APR-15	Finding:	4.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	15-APR-15	Finding:	46.7
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	15-APR-15	Finding:	1030.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-APR-15	Finding:	0.47
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	04-FEB-15	Finding:	0.47
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	21-JAN-15	Finding:	46.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	07-JAN-15	Finding:	0.49
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	29-OCT-14	Finding:	56.7
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	01-OCT-14	Finding:	0.52
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-AUG-14	Finding:	0.52
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	30-JUL-14	Finding:	49.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	05-JUN-14	Finding:	55.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	05-JUN-14	Finding:	56.6
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	05-JUN-14	Finding:	0.48
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	22-APR-14	Finding:	9.9
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-14	Finding:	37.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	22-APR-14	Finding:	2.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-14	Finding:	24.5
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-14	Finding:	59.6
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	22-APR-14	Finding:	0.47
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	22-APR-14	Finding:	4.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	22-APR-14	Finding:	64.2
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	22-APR-14	Finding:	318.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-14	Finding:	2.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-APR-14	Finding:	0.11
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-14	Finding:	570.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	22-APR-14	Finding:	3.12
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	22-APR-14	Finding:	1.41
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-APR-14	Finding:	0.437
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-APR-14	Finding:	1.04
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	22-APR-14	Finding:	0.559
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-APR-14	Finding:	1.11
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L

Dlr:	0.		
Sample date:	22-APR-14	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-APR-14	Finding:	0.2
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-APR-14	Finding:	0.368
Chemical:	RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0		
Report units:	PCI/L	Dlr:	0.
Sample date:	22-APR-14	Finding:	0.306
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-APR-14	Finding:	0.47
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Report units:	PCI/L	Dlr:	0.
Sample date:	22-APR-14	Finding:	65.3
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-14	Finding:	204.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-14	Finding:	216.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-14	Finding:	177.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-14	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	22-APR-14	Finding:	546.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	22-APR-14	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	22-APR-14	Finding:	0.2
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	02-APR-14	Finding:	0.48
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	06-FEB-14	Finding:	0.45
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	04-DEC-13	Finding:	70.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	04-DEC-13	Finding:	0.46
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	06-NOV-13	Finding:	0.52
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-SEP-13	Finding:	0.55
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	01-AUG-13	Finding:	0.52
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	28-JUN-13	Finding:	0.47
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	24-APR-13	Finding:	3.2
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-APR-13	Finding:	0.49
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	24-APR-13	Finding:	730.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-APR-13	Finding:	0.47
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	06-MAR-13	Finding:	0.46
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	30-JAN-13	Finding:	0.47
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-JAN-13	Finding:	0.47
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	05-DEC-12	Finding:	0.58
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	30-MAY-12	Finding:	0.6
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	02-MAY-12	Finding:	0.52
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L

Dlr:	0.1		
Sample date:	02-MAY-12	Finding:	910.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-MAY-12	Finding:	4.02
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-APR-12	Finding:	0.48
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	29-FEB-12	Finding:	0.49
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-FEB-12	Finding:	0.48
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	04-JAN-12	Finding:	0.65
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

93
NNW
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000005692**

State Well #:	04S11W16P002S	Station ID:	28313
Well Name:	Not Reported	Basin Name:	Coastal Plain Of Orange County
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

N94
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000043394**

Well ID:	T0605969865-E32-1B	Well Type:	MONITORING
Source:	EDF	Other Name:	E32-1B
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605969865&assigned_name=E32-1B&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605969865&assigned_name=E32-1B		

N95
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000077329**

Well ID:	T0605969865-E32-1A	Well Type:	MONITORING
Source:	EDF	Other Name:	E32-1A
GAMA PFAS Testing:	Not Reported		

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0605969865&assigned_name=E32-1A&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0605969865&assigned_name=E32-1A

O96
WNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000033234**

Well ID: 04S11W20H002S
Well Type: UNK
Source: Department of Water Resources
Other Name: 04S11W20H002S
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=04S11W20H002S&store_num=
GeoTracker Data: Not Reported

O97
WNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000031889**

Well ID: 04S11W20H003S
Well Type: UNK
Source: Department of Water Resources
Other Name: 04S11W20H003S
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=04S11W20H003S&store_num=
GeoTracker Data: Not Reported

1G
NNE
1/2 - 1 Mile
Lower

AQUIFLOW **54966**

Site ID: 083001687T
Groundwater Flow: NW
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: 10.76
Date: 01/29/1999

2G
NNW
1/2 - 1 Mile
Lower

AQUIFLOW **38612**

Site ID: 083001501T
Groundwater Flow: SSW
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: 8
Date: 02/10/1992

3G
NE
1/4 - 1/2 Mile
Lower

AQUIFLOW **68233**

Site ID: 083002920T
Groundwater Flow: SW
Shallow Water Depth: 5
Deep Water Depth: 8
Average Water Depth: Not Reported
Date: 07/26/1995

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
4G **NE** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000718T Not Reported Not Reported Not Reported 7.75 08/26/1992	**AQUIFLOW**	**66460**
5G **ESE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083001446T S 7 7.5 Not Reported 08/27/1990	**AQUIFLOW**	**54899**
6G **ESE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083001539T Varies 35.76 36.95 Not Reported 07/1991	**AQUIFLOW**	**50958**
7G **WSW** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000585T Varies 4.75 7.13 Not Reported 03/31/1999	**AQUIFLOW**	**68297**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
NNE **OIL_GAS** **CAOG14000006102**
1/2 - 1 Mile

API #:	0405901033	Well #:	1
Well Status:	Idle	Well Type:	Oil & Gas
Lease Name:	Lease by Charles T. B. Jones		
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
90630	50	1

Federal EPA Radon Zone for ORANGE County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for ORANGE COUNTY, CA

Number of sites tested: 30

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.763 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Appendix E HISTORICAL RECORDS

Goodman

5757 Plaza Drive

Cypress, CA 90630

Inquiry Number: 6586541.3

July 21, 2021

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/21/21

Site Name:	Client Name:
Goodman 5757 Plaza Drive Cypress, CA 90630 EDR Inquiry # 6586541.3	Stantec 735 E. Carnegie Drive, Suite 280 SAN BERNARDINO, CA 92408 Contact: Alicia Jansen

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Stantec were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 9005-4606-AAE2

PO # NA

Project NA

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 9005-4606-AAE2

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Goodman

5757 Plaza Drive

Cypress, CA 90630

Inquiry Number: 6586541.4

July 21, 2021

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

07/21/21

Site Name:

Goodman
5757 Plaza Drive
Cypress, CA 90630
EDR Inquiry # 6586541.4

Client Name:

Stantec
735 E. Carnegie Drive, Suite 280
SAN BERNARDINO, CA 92408
Contact: Alicia Jansen

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Stantec were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA
Project: NA

Coordinates:

Latitude:	33.805668 33° 48' 20" North
Longitude:	-118.033132 -118° 1' 59" West
UTM Zone:	Zone 11 North
UTM X Meters:	404373.80
UTM Y Meters:	3741088.88
Elevation:	38.00' above sea level

Maps Provided:

2012	1943
1981	1942
1972	1935
1964	1925
1950	1923
1949	1902
1947	1899
1945	1896

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

Los Alamitos
2012
7.5-minute, 24000

1981 Source Sheets

Los Alamitos
1981
7.5-minute, 24000
Aerial Photo Revised 1978

1972 Source Sheets

Los Alamitos
1972
7.5-minute, 24000
Aerial Photo Revised 1972

1964 Source Sheets

Los Alamitos
1964
7.5-minute, 24000
Aerial Photo Revised 1963

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

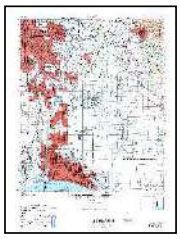
1950 Source Sheets

Los Alamitos
1950
7.5-minute, 24000
Aerial Photo Revised 1947

1949 Source Sheets

Los Alamitos
1949
7.5-minute, 24000
Aerial Photo Revised 1947

1947 Source Sheets



DOWNEY
1947
15-minute, 50000

1945 Source Sheets

Artesia
1945
7.5-minute, 24000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1943 Source Sheets

Downey
1943
15-minute, 62500
Aerial Photo Revised 1939

1942 Source Sheets

Downey
1942
15-minute, 62500

1935 Source Sheets

Los Alamitos
1935
7.5-minute, 31680

1925 Source Sheets

Artesia
1925
7.5-minute, 24000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1923 Source Sheets

Artesia
1923
7.5-minute, 24000

1902 Source Sheets

Downey
1902
15-minute, 62500

1899 Source Sheets

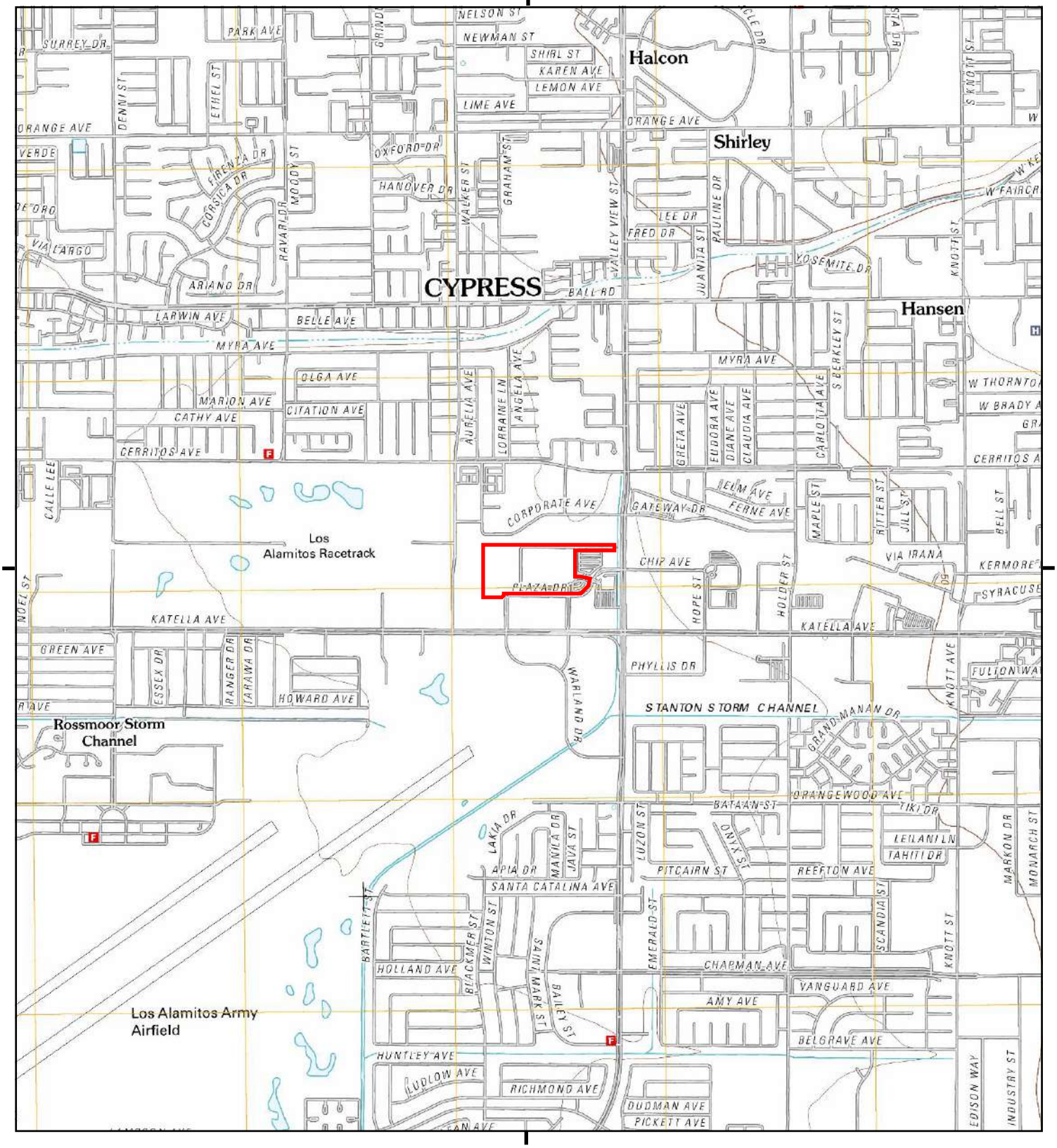
Downey
1899
15-minute, 62500

1896 Source Sheets

Downey
1896
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

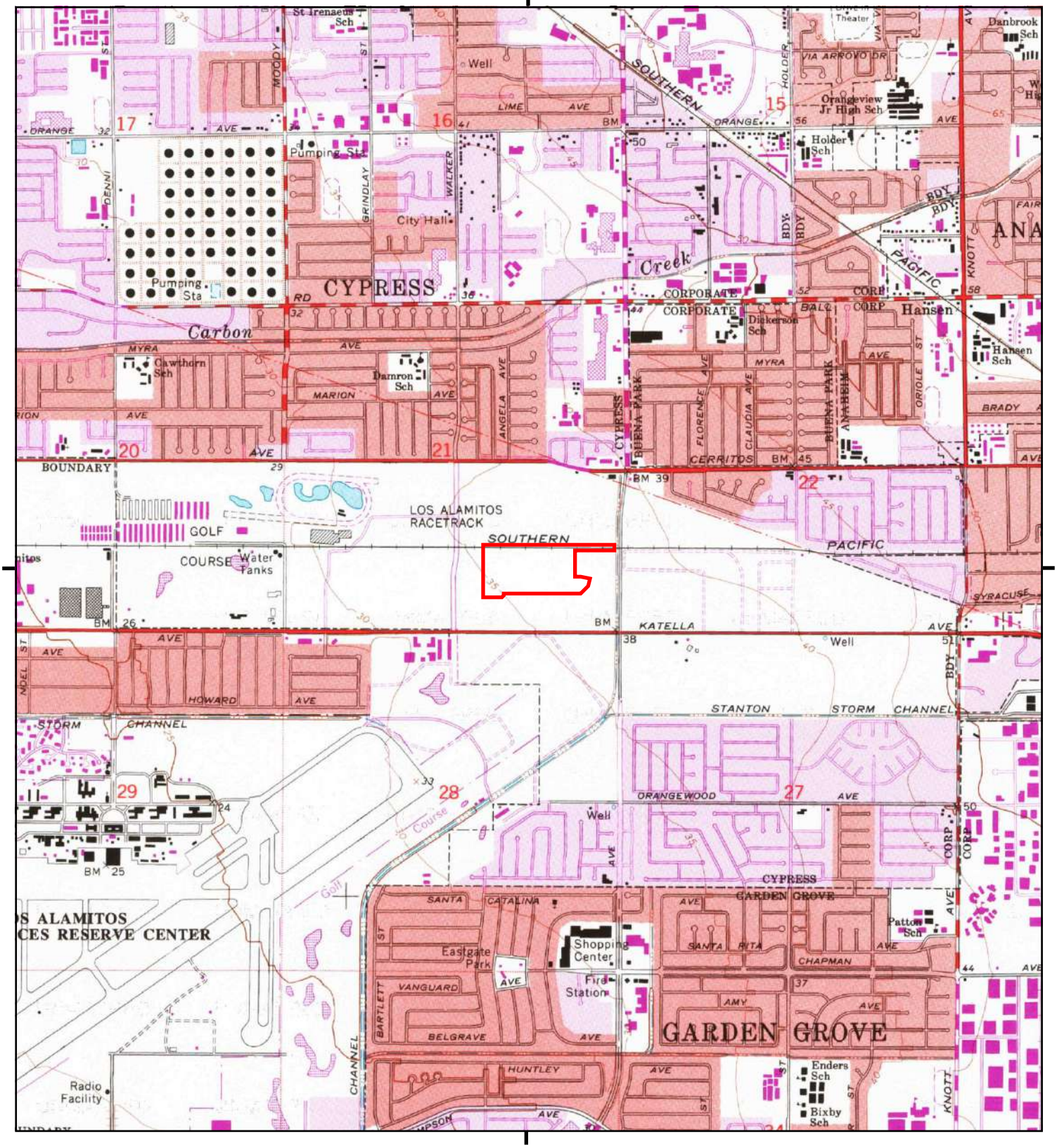
TP, Los Alamitos, 2012, 7.5-minute

SITE NAME: Goodman
ADDRESS: 5757 Plaza Drive
Cypress, CA 90630
CLIENT: Stantec

N

Historical Topo Map

1981



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

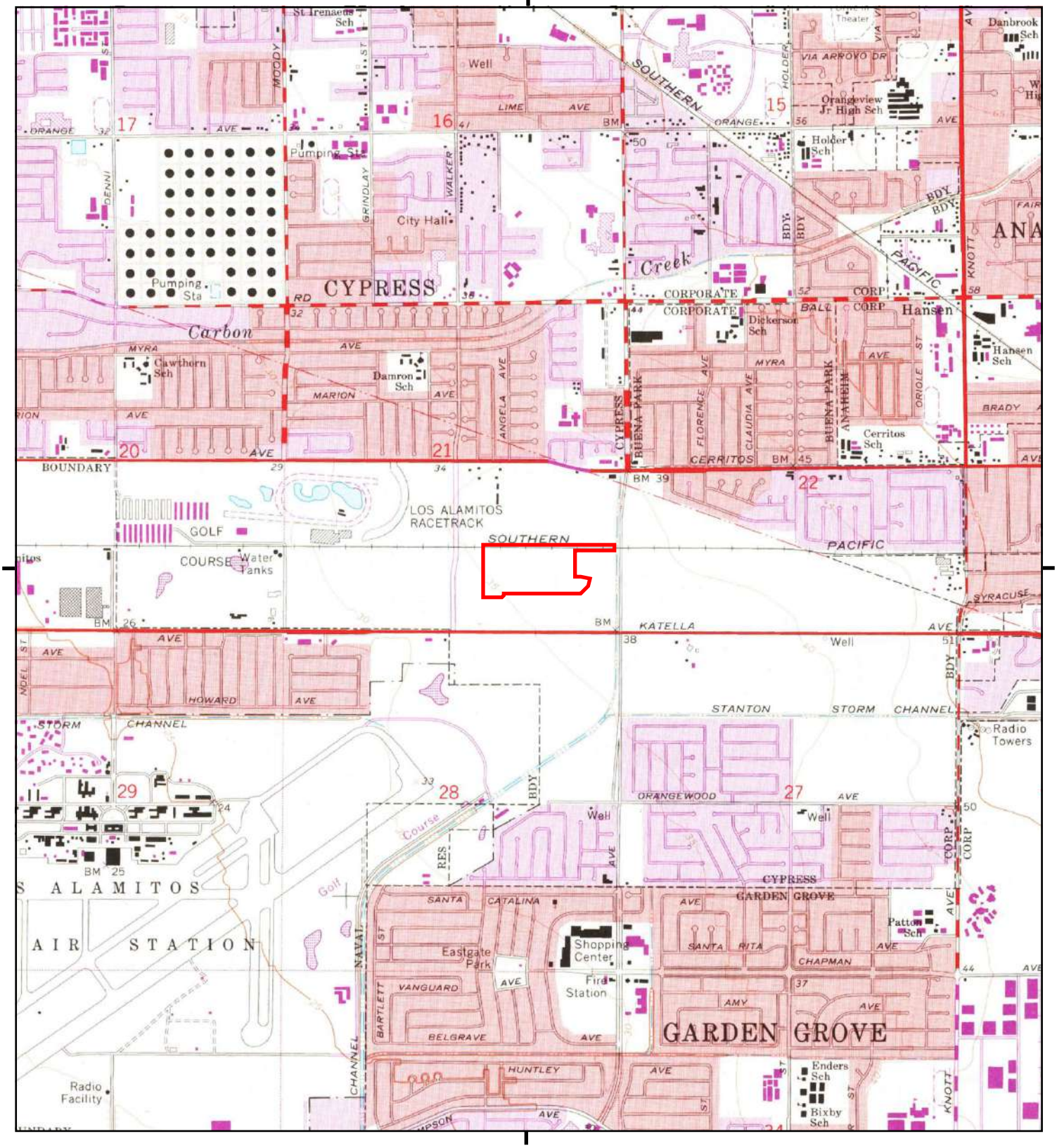
TP, Los Alamitos, 1981, 7.5-minute

SITE NAME: Goodman
ADDRESS: 5757 Plaza Drive
Cypress, CA 90630
CLIENT: Stantec

N

Historical Topo Map

1972



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

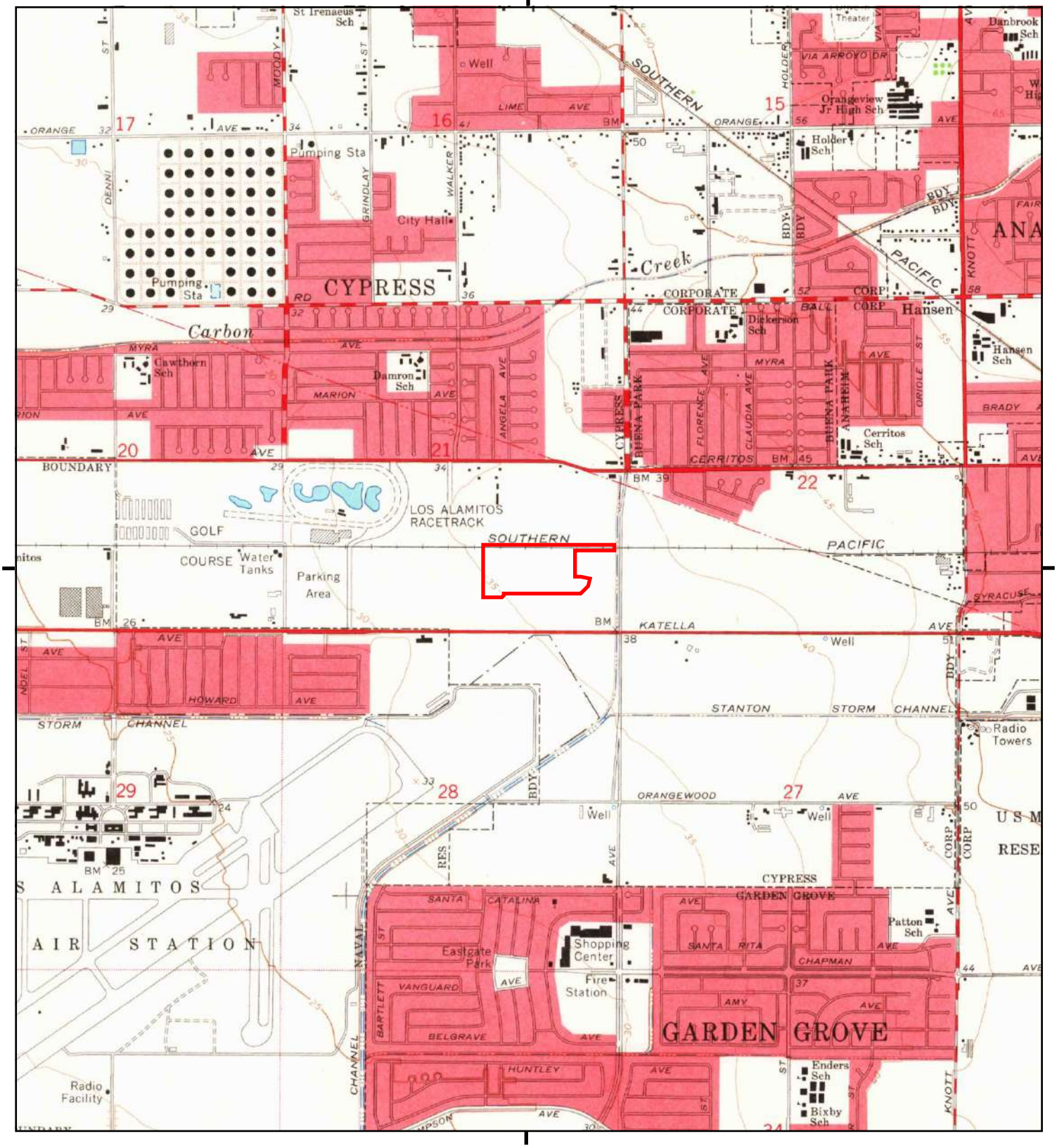
TP, Los Alamitos, 1972, 7.5-minute

SITE NAME: Goodman
ADDRESS: 5757 Plaza Drive
Cypress, CA 90630
CLIENT: Stantec

N

Historical Topo Map

1964



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

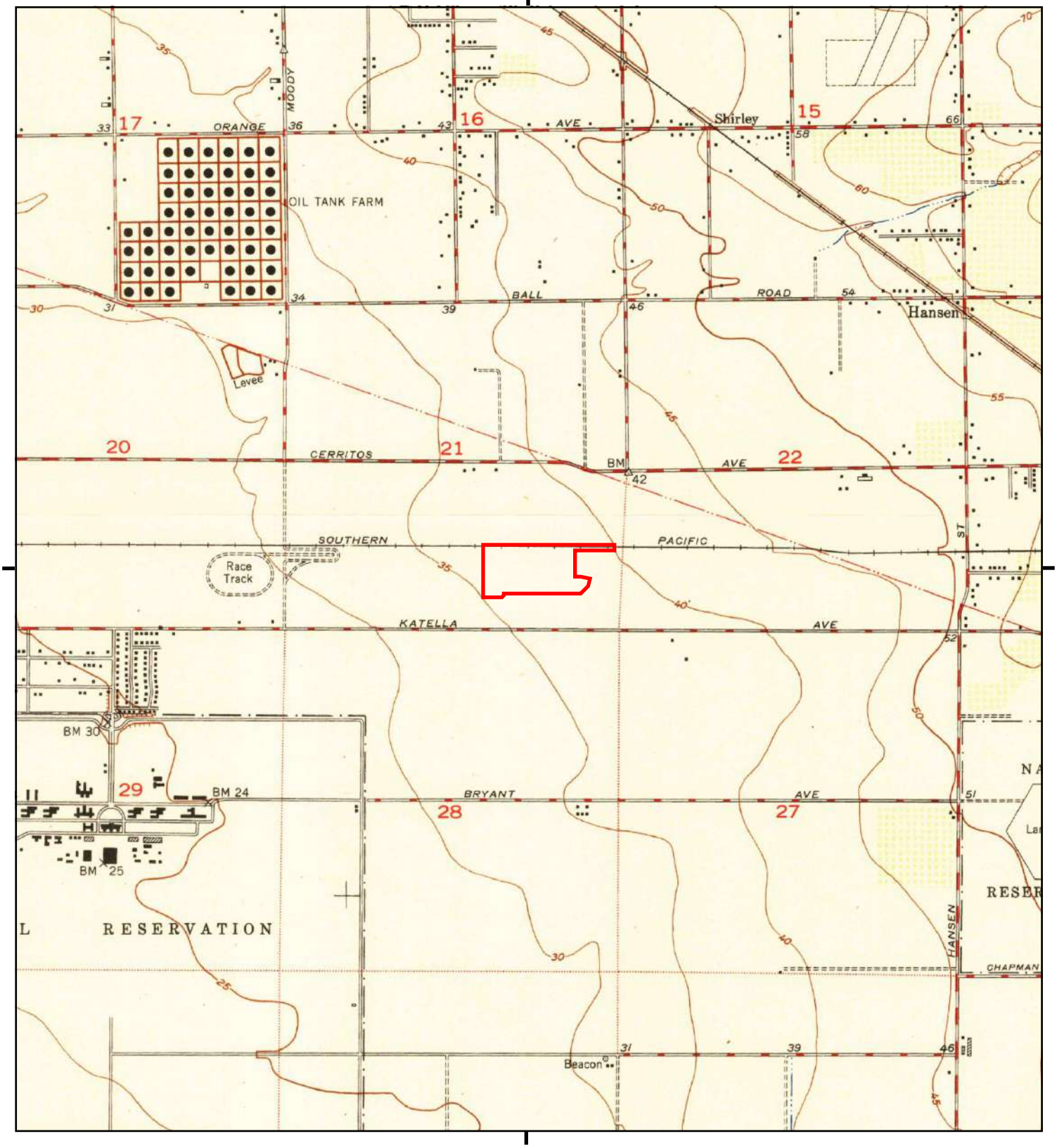
TP, Los Alamitos, 1964, 7.5-minute

SITE NAME: Goodman
ADDRESS: 5757 Plaza Drive
Cypress, CA 90630
CLIENT: Stantec

N

Historical Topo Map

1950



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

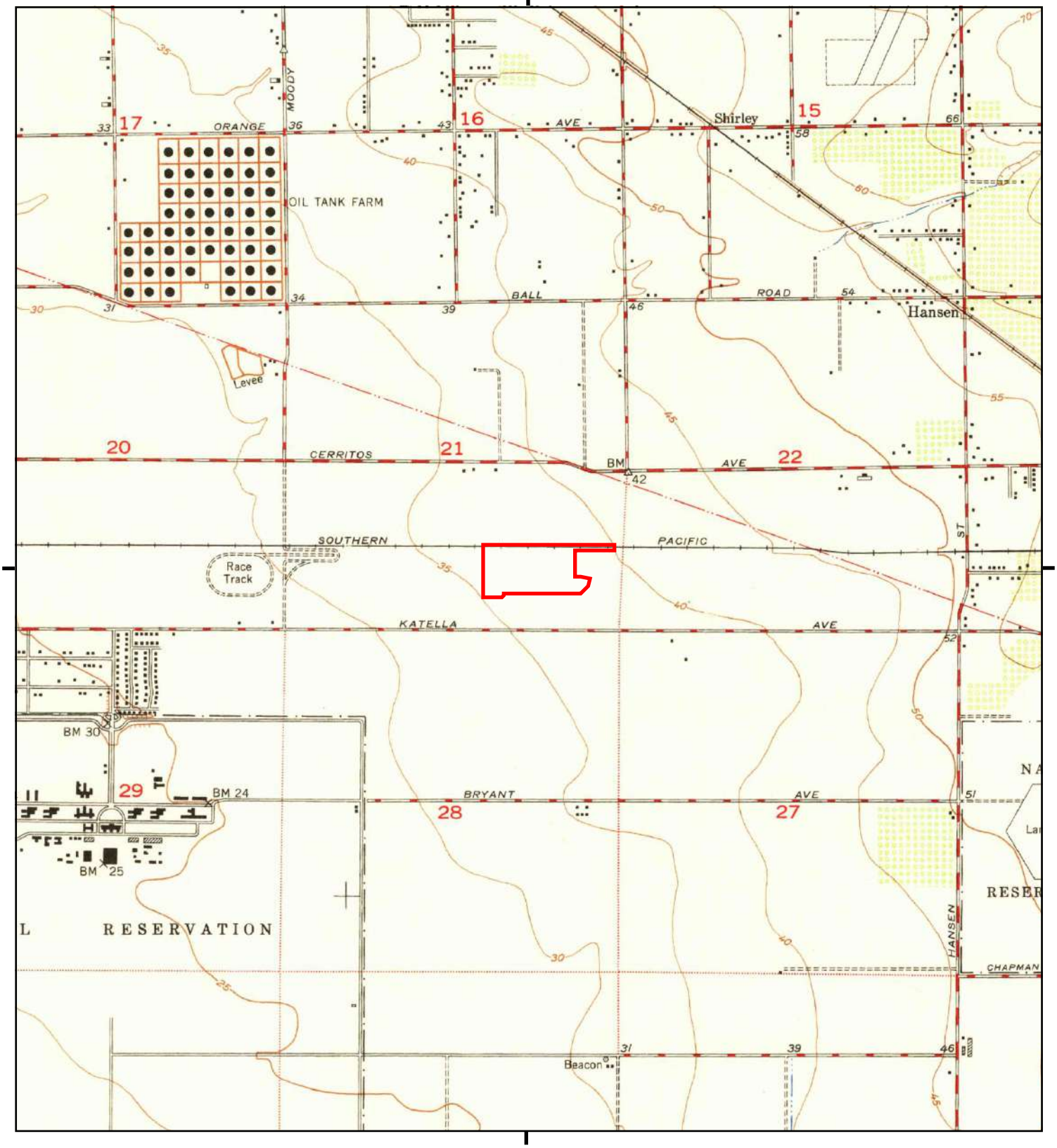
TP, Los Alamitos, 1950, 7.5-minute

SITE NAME: Goodman
ADDRESS: 5757 Plaza Drive
Cypress, CA 90630
CLIENT: Stantec

N

Historical Topo Map

1949



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

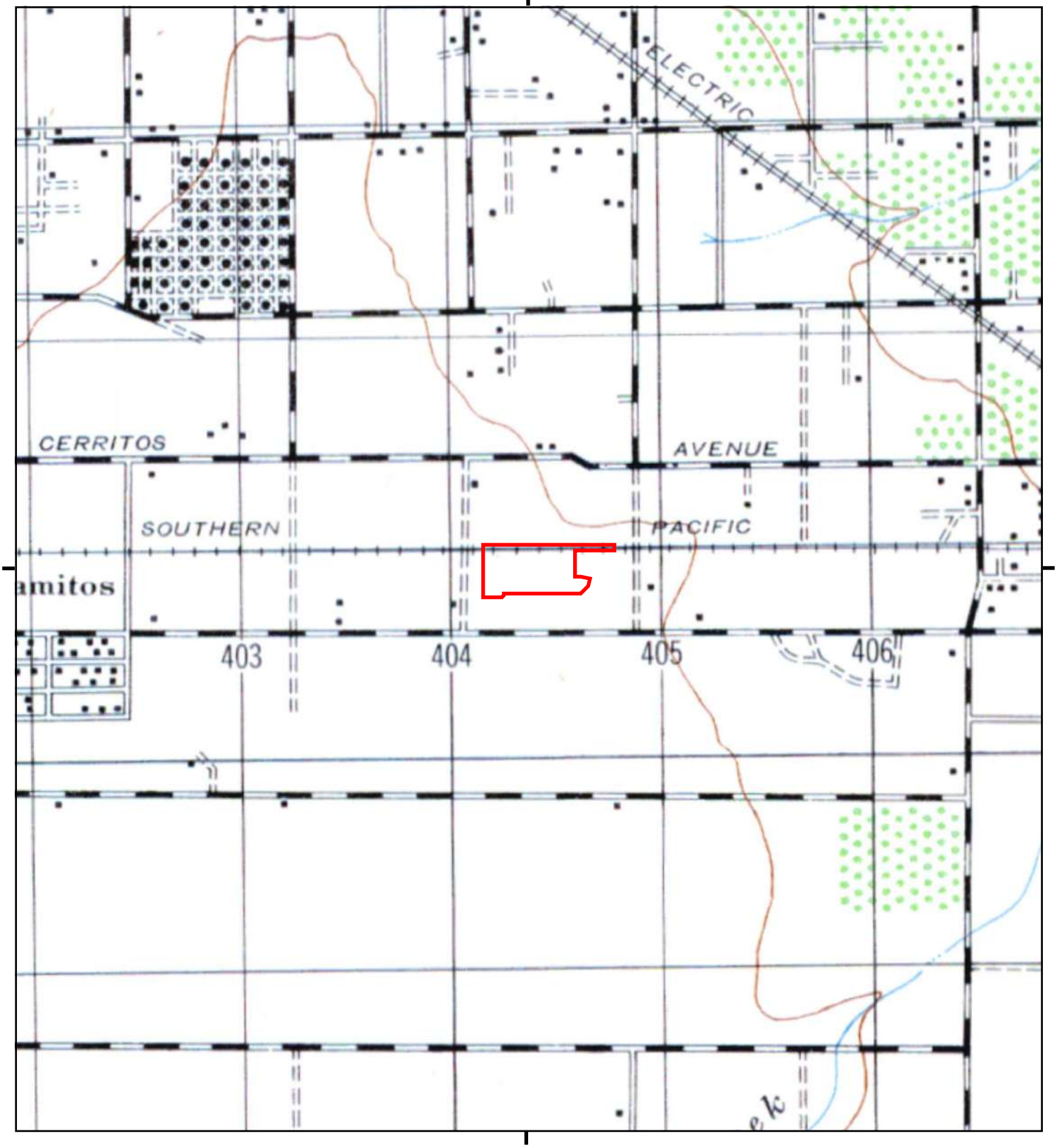
TP, Los Alamitos, 1949, 7.5-minute

SITE NAME: Goodman
ADDRESS: 5757 Plaza Drive
Cypress, CA 90630
CLIENT: Stantec

N

Historical Topo Map

1947



This report includes information from the following map sheet(s).

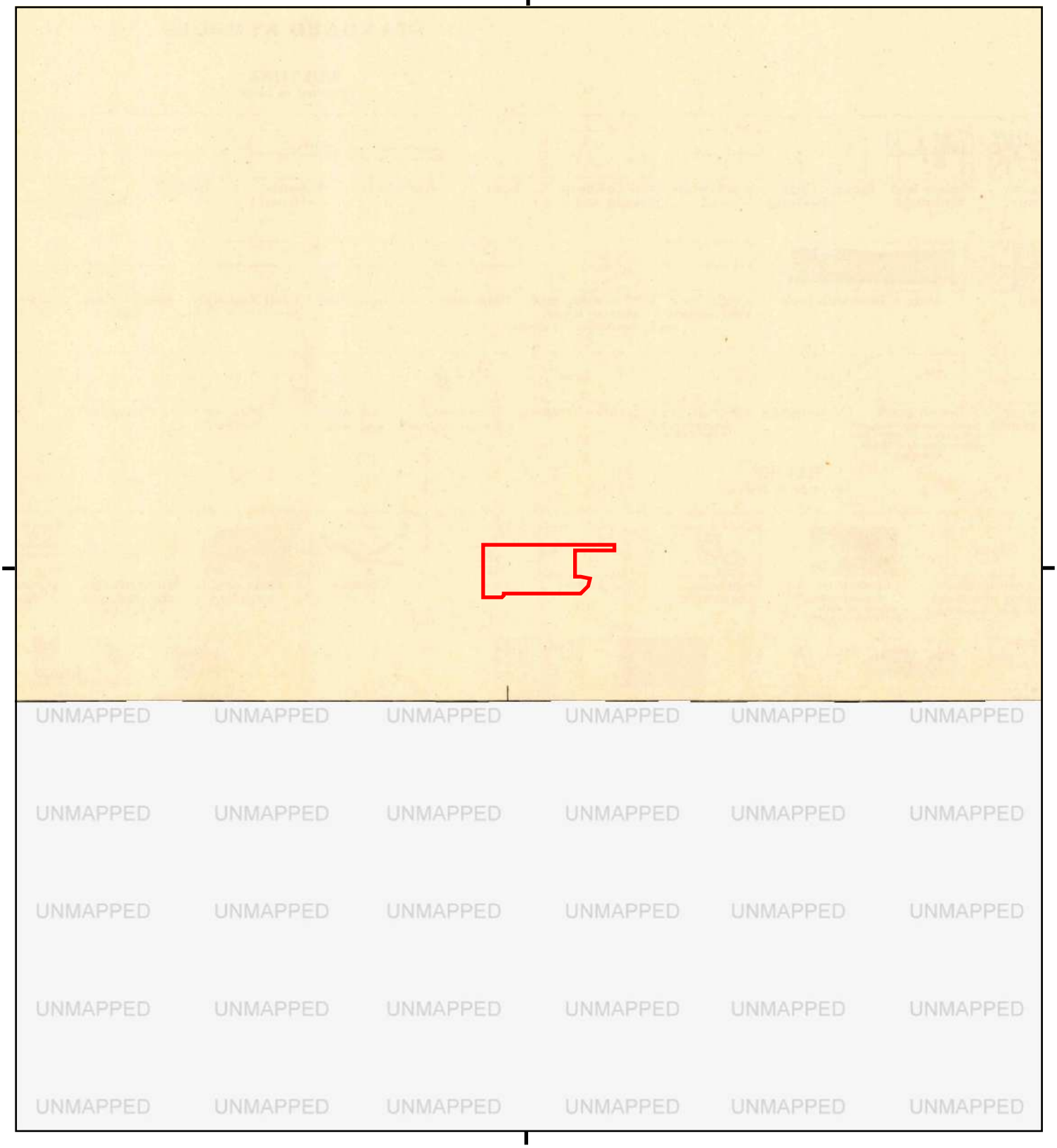
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, DOWNEY, 1947, 15-minute

SITE NAME: Goodman
ADDRESS: 5757 Plaza Drive
Cypress, CA 90630
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

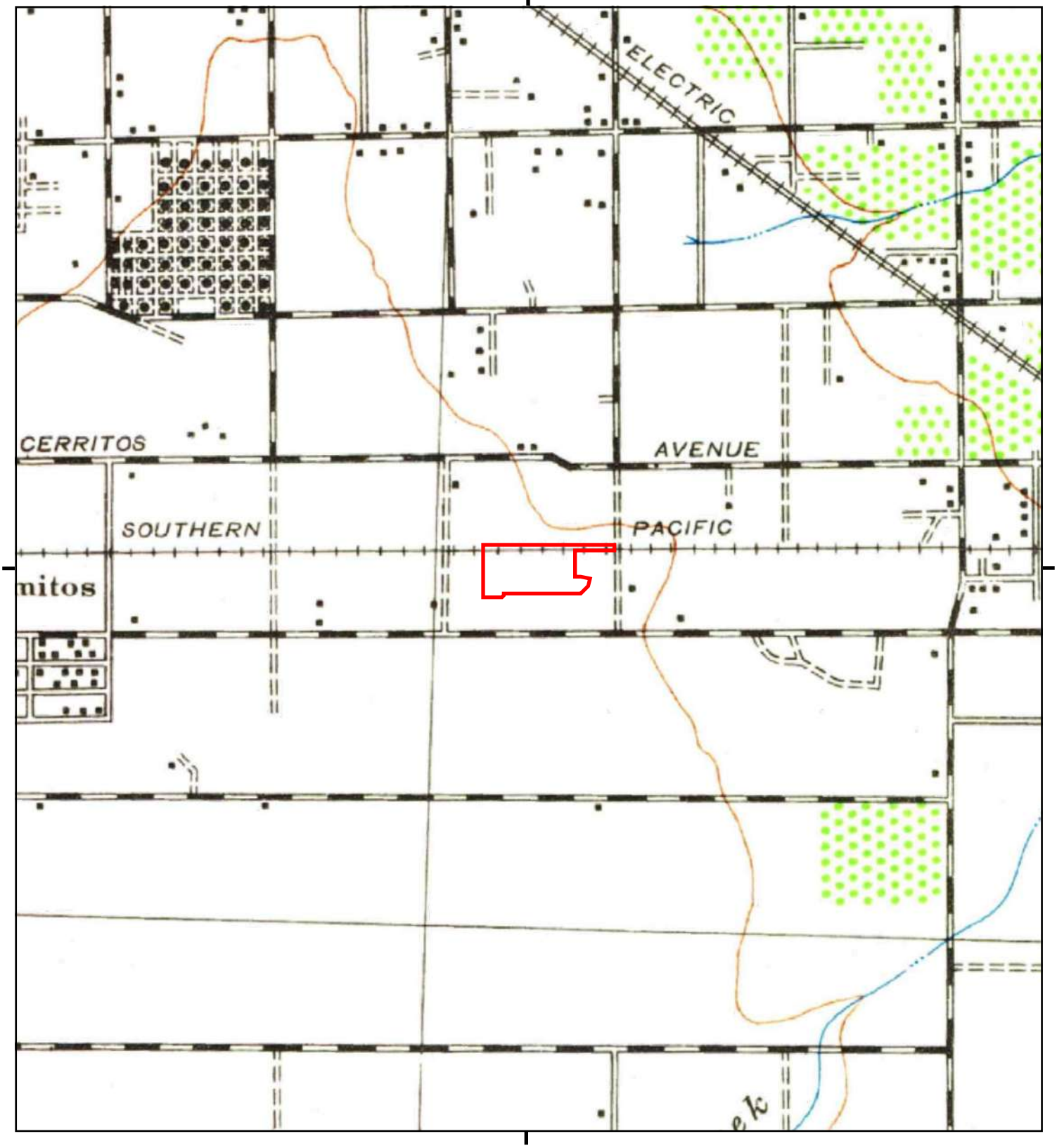
TP, Artesia, 1945, 7.5-minute

SITE NAME: Goodman
ADDRESS: 5757 Plaza Drive
Cypress, CA 90630
CLIENT: Stantec

N

Historical Topo Map

1943



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

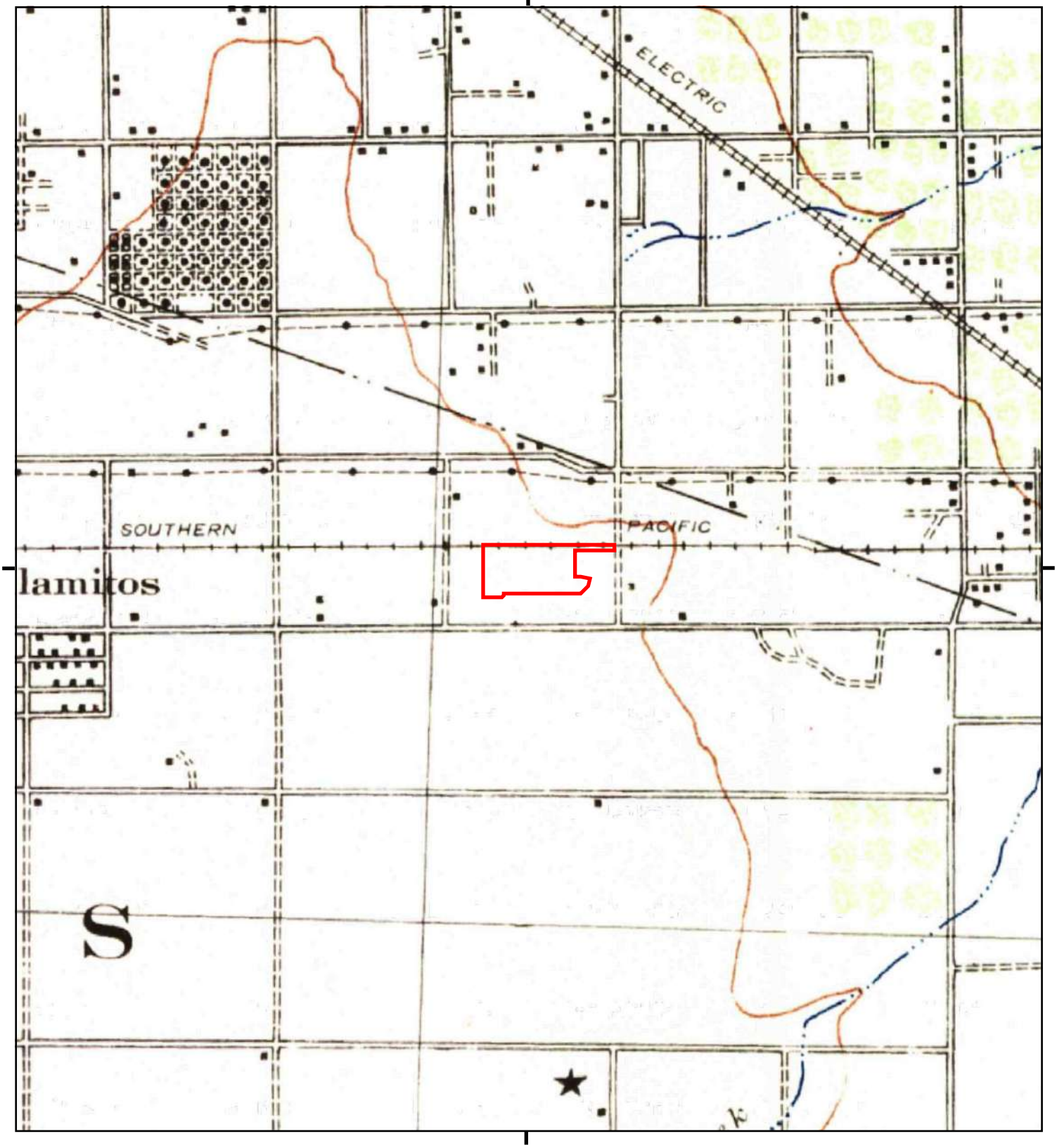
TP, Downey, 1943, 15-minute

SITE NAME: Goodman
ADDRESS: 5757 Plaza Drive
Cypress, CA 90630
CLIENT: Stantec

N

Historical Topo Map

1942



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

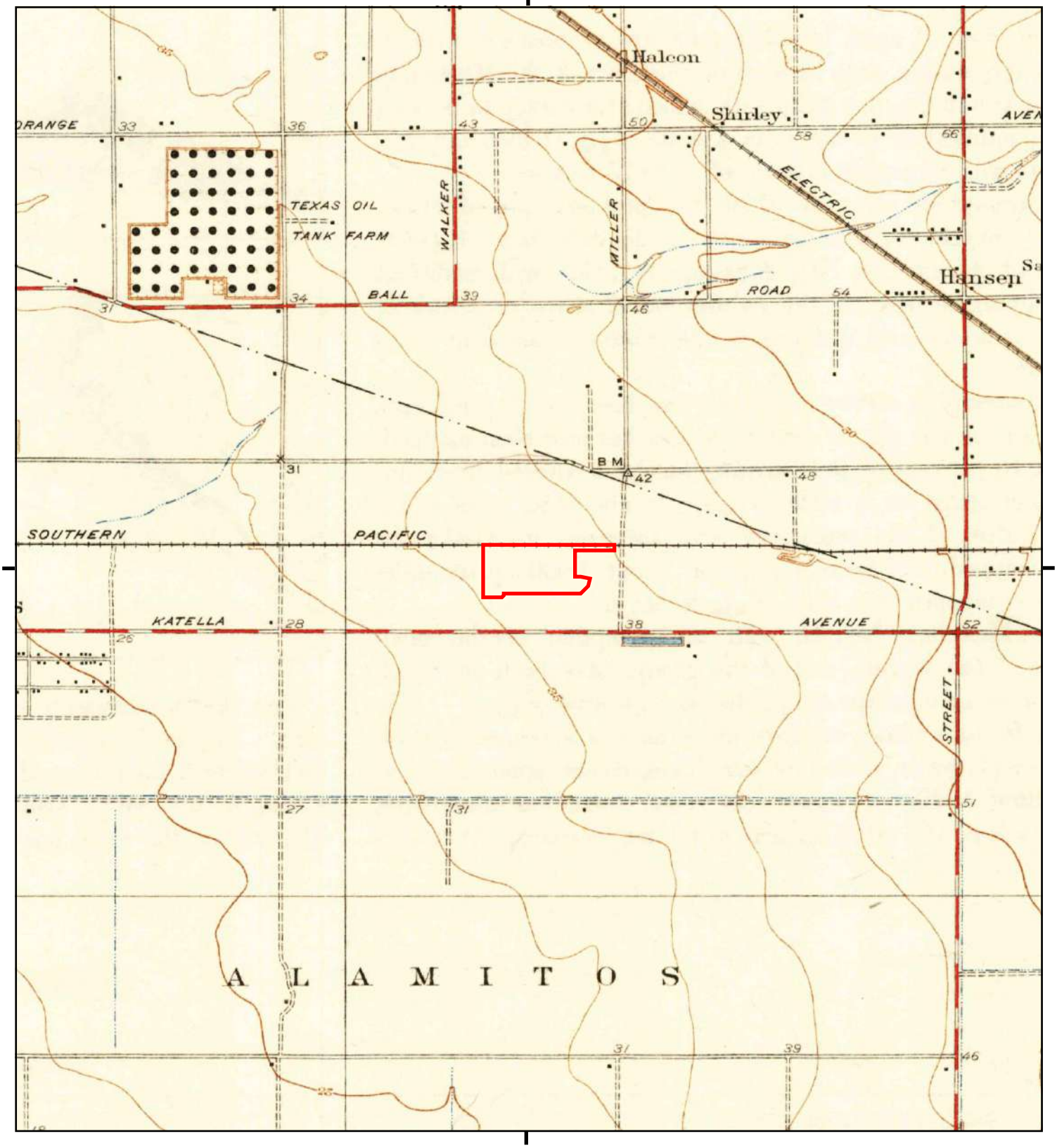
TP, Downey, 1942, 15-minute

SITE NAME: Goodman
ADDRESS: 5757 Plaza Drive
Cypress, CA 90630
CLIENT: Stantec

N

Historical Topo Map

1935



This report includes information from the following map sheet(s).

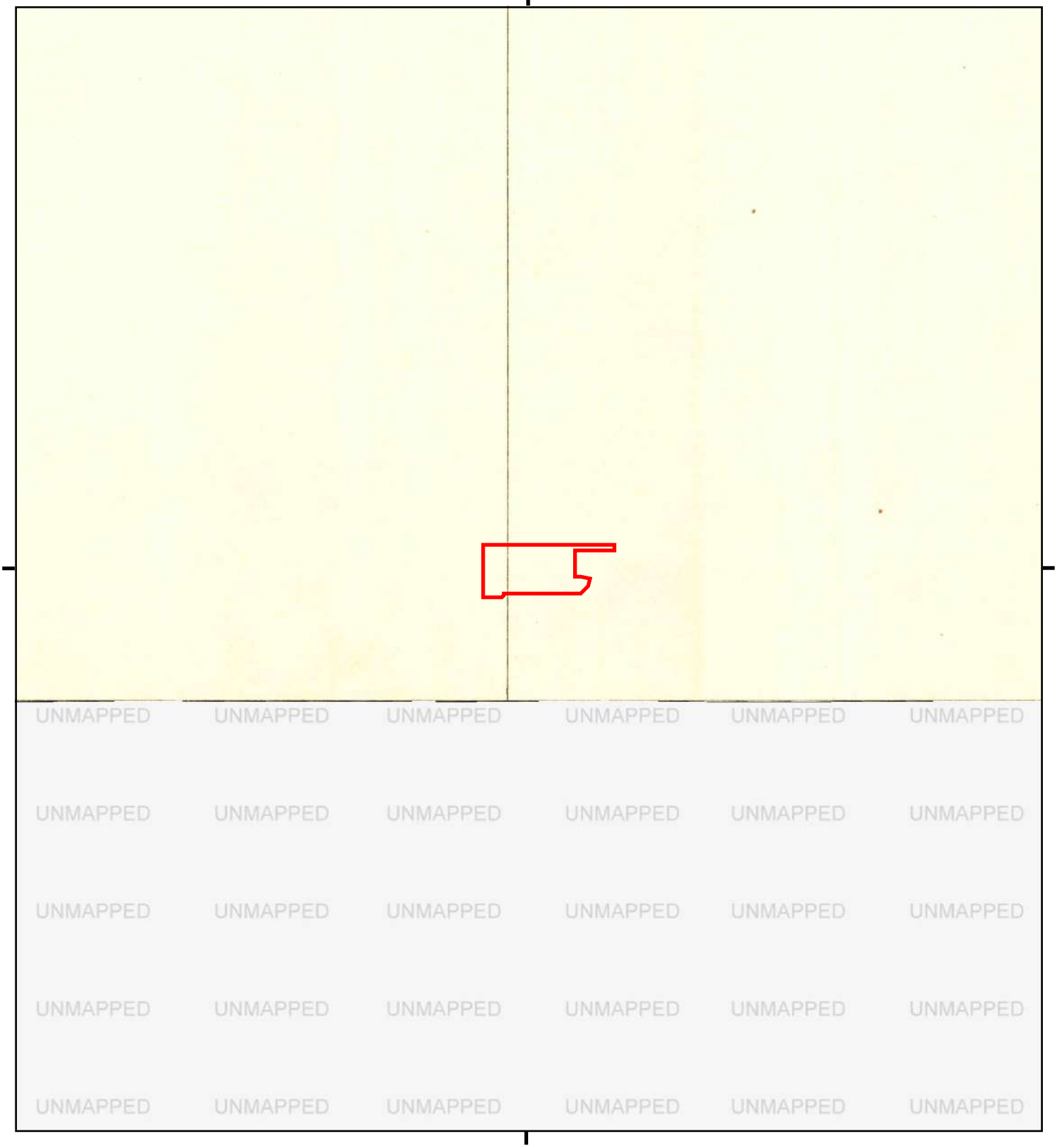
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Los Alamitos, 1935, 7.5-minute

SITE NAME: Goodman
ADDRESS: 5757 Plaza Drive
Cypress, CA 90630
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

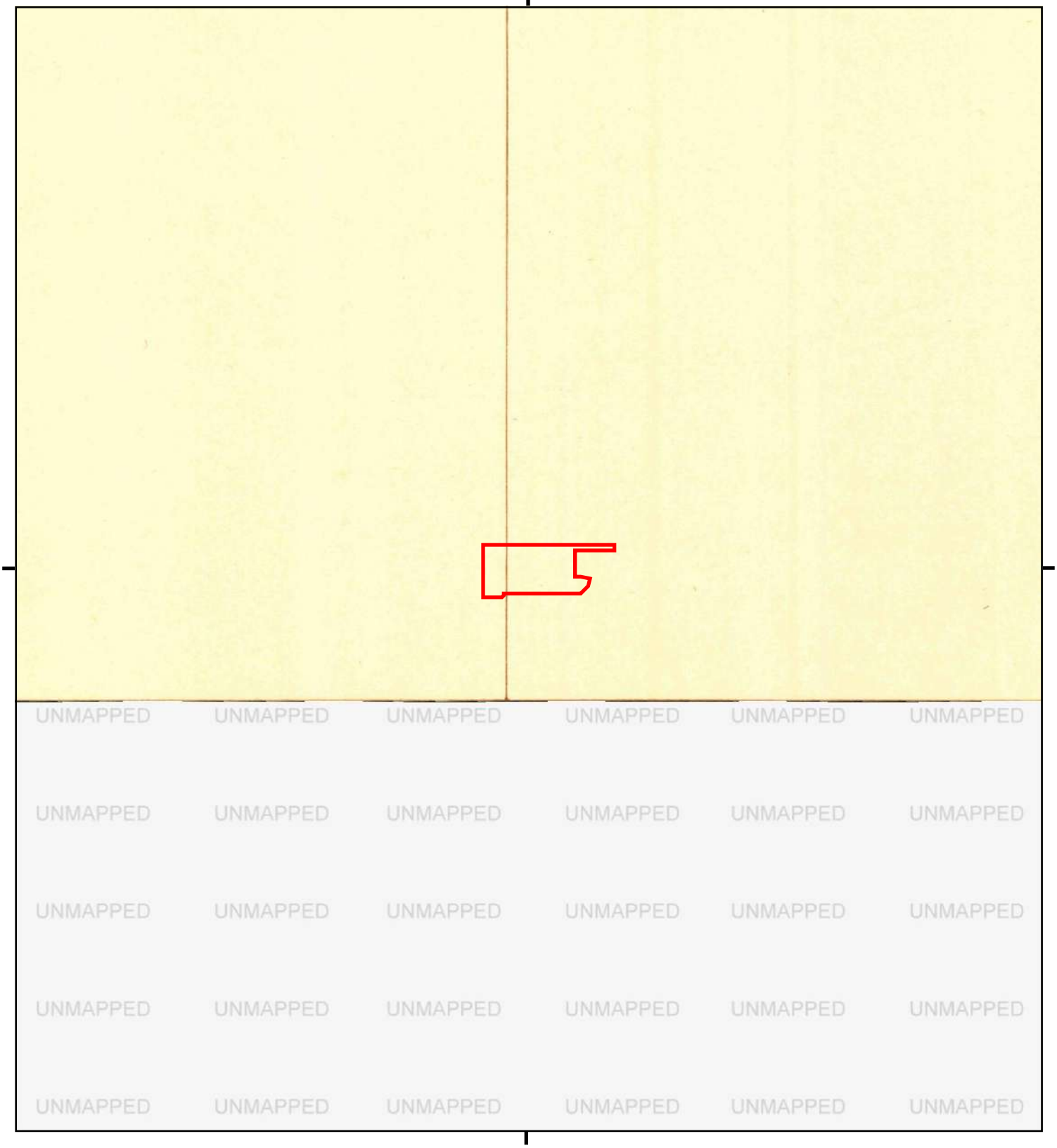
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Artesia, 1925, 7.5-minute

SITE NAME: Goodman
ADDRESS: 5757 Plaza Drive
Cypress, CA 90630
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

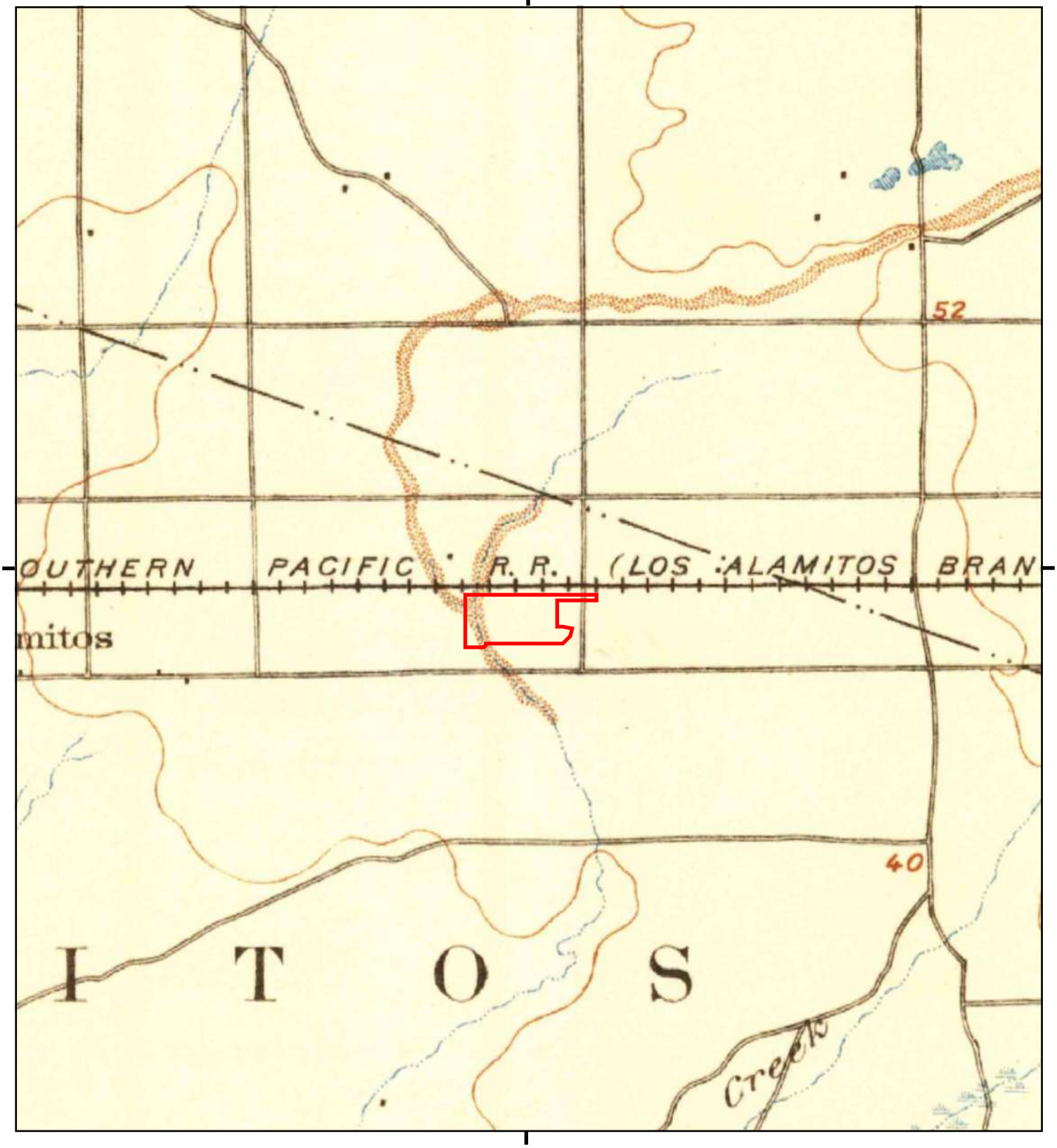
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Artesia, 1923, 7.5-minute

SITE NAME: Goodman
ADDRESS: 5757 Plaza Drive
Cypress, CA 90630
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

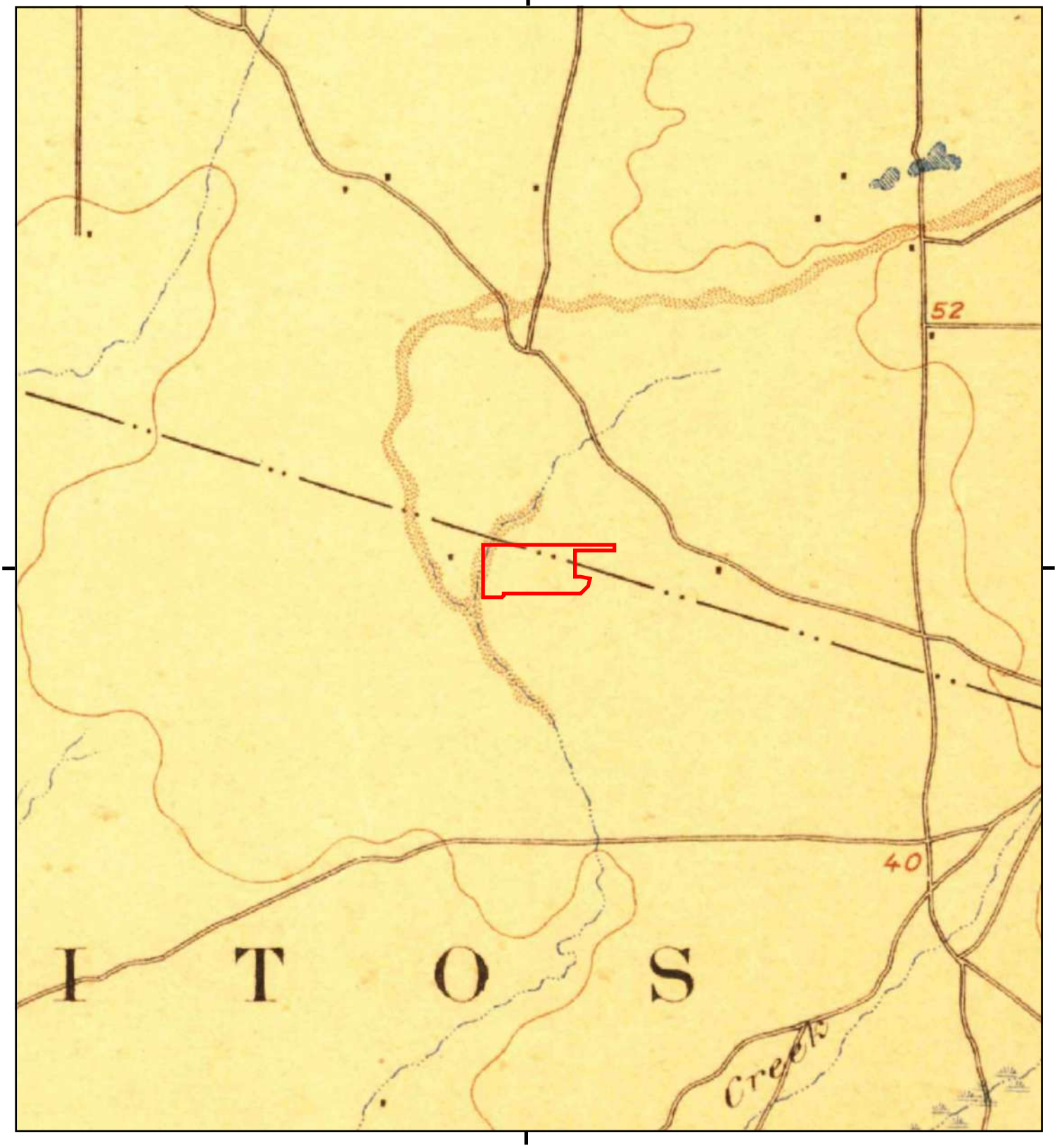
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Downey, 1902, 15-minute

SITE NAME: Goodman
ADDRESS: 5757 Plaza Drive
Cypress, CA 90630
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

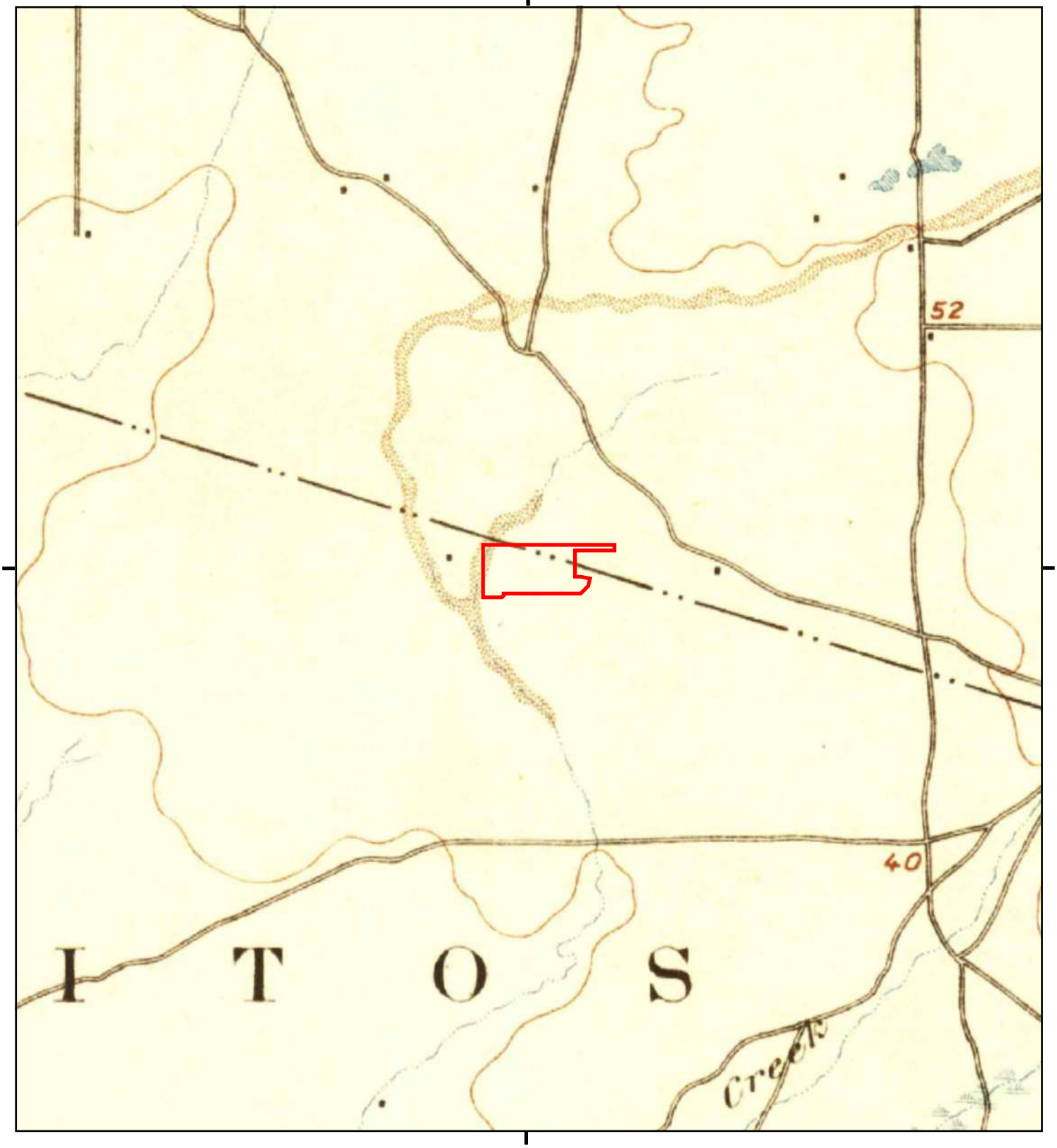
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Downey, 1899, 15-minute

SITE NAME: Goodman
ADDRESS: 5757 Plaza Drive
Cypress, CA 90630
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Downey, 1896, 15-minute

SITE NAME: Goodman
ADDRESS: 5757 Plaza Drive
Cypress, CA 90630
CLIENT: Stantec

N

Goodman

5757 Plaza Drive

Cypress, CA 90630

Inquiry Number: 6586541.8

July 21, 2021

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

07/21/21

Site Name:

Goodman
5757 Plaza Drive
Cypress, CA 90630
EDR Inquiry # 6586541.8

Client Name:

Stantec
735 E. Carnegie Drive, Suite 280
SAN BERNARDINO, CA 92408
Contact: Alicia Jansen

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2002	1"=500'	Acquisition Date: January 01, 2002	USGS/DOQQ
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
1990	1"=500'	Flight Date: September 06, 1990	USDA
1983	1"=500'	Flight Date: December 30, 1983	EDR Proprietary Brewster Pacific
1981	1"=500'	Flight Date: February 21, 1981	EDR Proprietary Brewster Pacific
1979	1"=500'	Flight Date: May 11, 1979	EDR Proprietary Brewster Pacific
1977	1"=500'	Flight Date: January 18, 1977	EDR Proprietary Brewster Pacific
1963	1"=500'	Flight Date: February 28, 1963	USGS
1954	1"=500'	Flight Date: August 31, 1954	USDA
1952	1"=500'	Flight Date: November 18, 1952	USDA
1947	1"=500'	Flight Date: June 17, 1947	FAIR
1938	1"=500'	Flight Date: June 21, 1938	USDA
1928	1"=500'	Flight Date: January 01, 1928	FAIR

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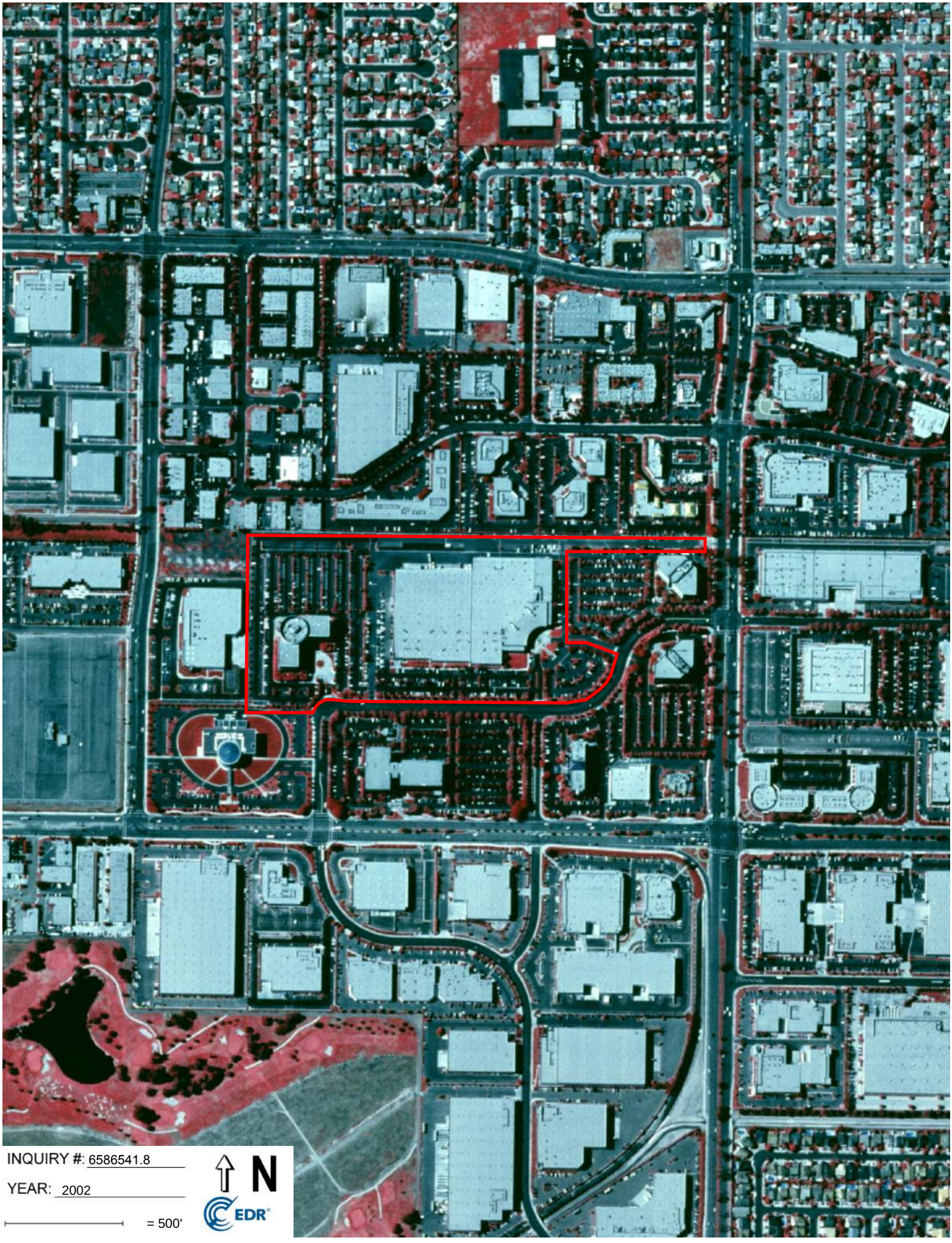
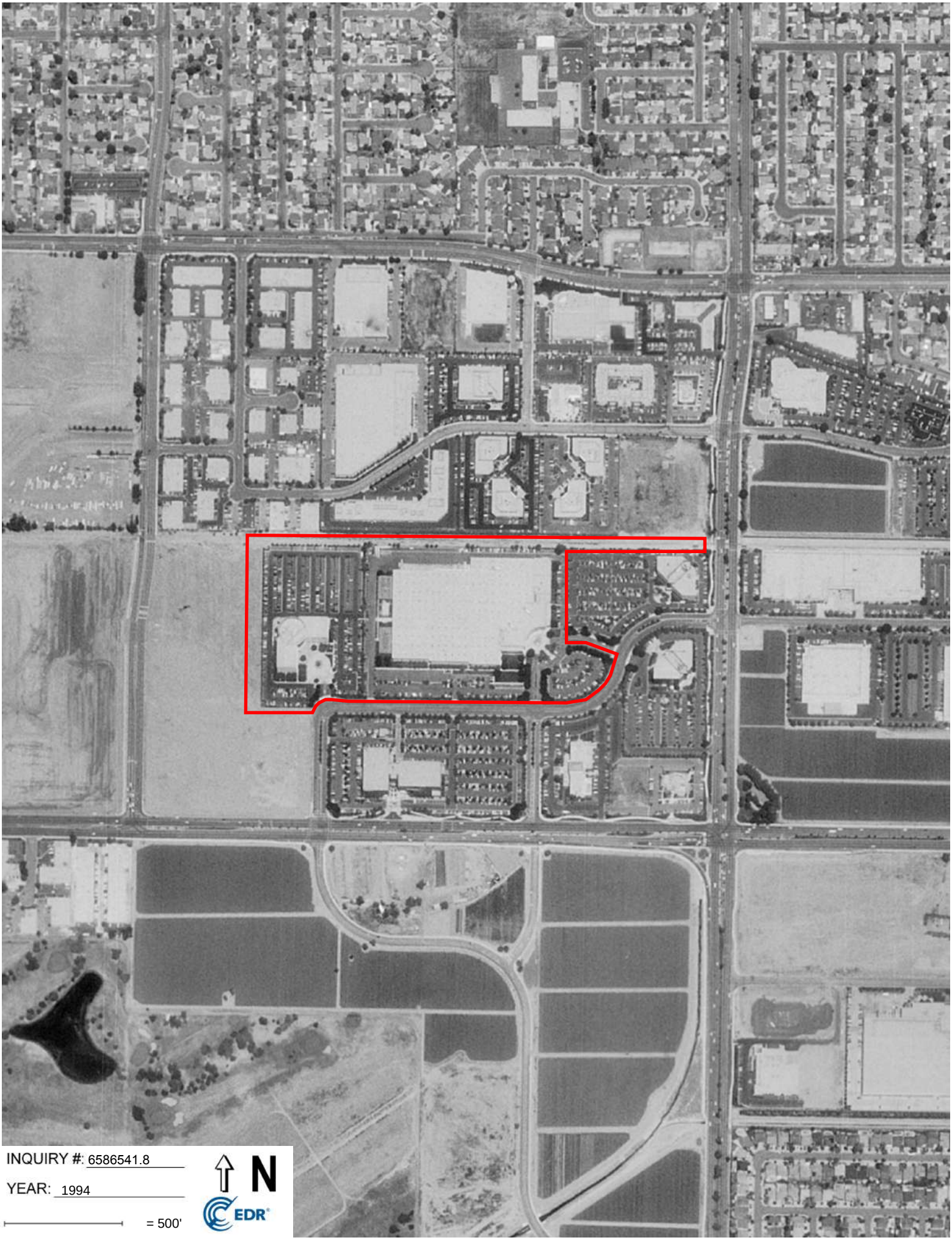
INQUIRY #: 6586541.8
YEAR: 2016
= 500'
N
EDR


INQUIRY #: 6586541.8
YEAR: 2002
= 500'
N
EDR


INQUIRY #: 6586541.8
YEAR: 1994
= 500'
N
EDR

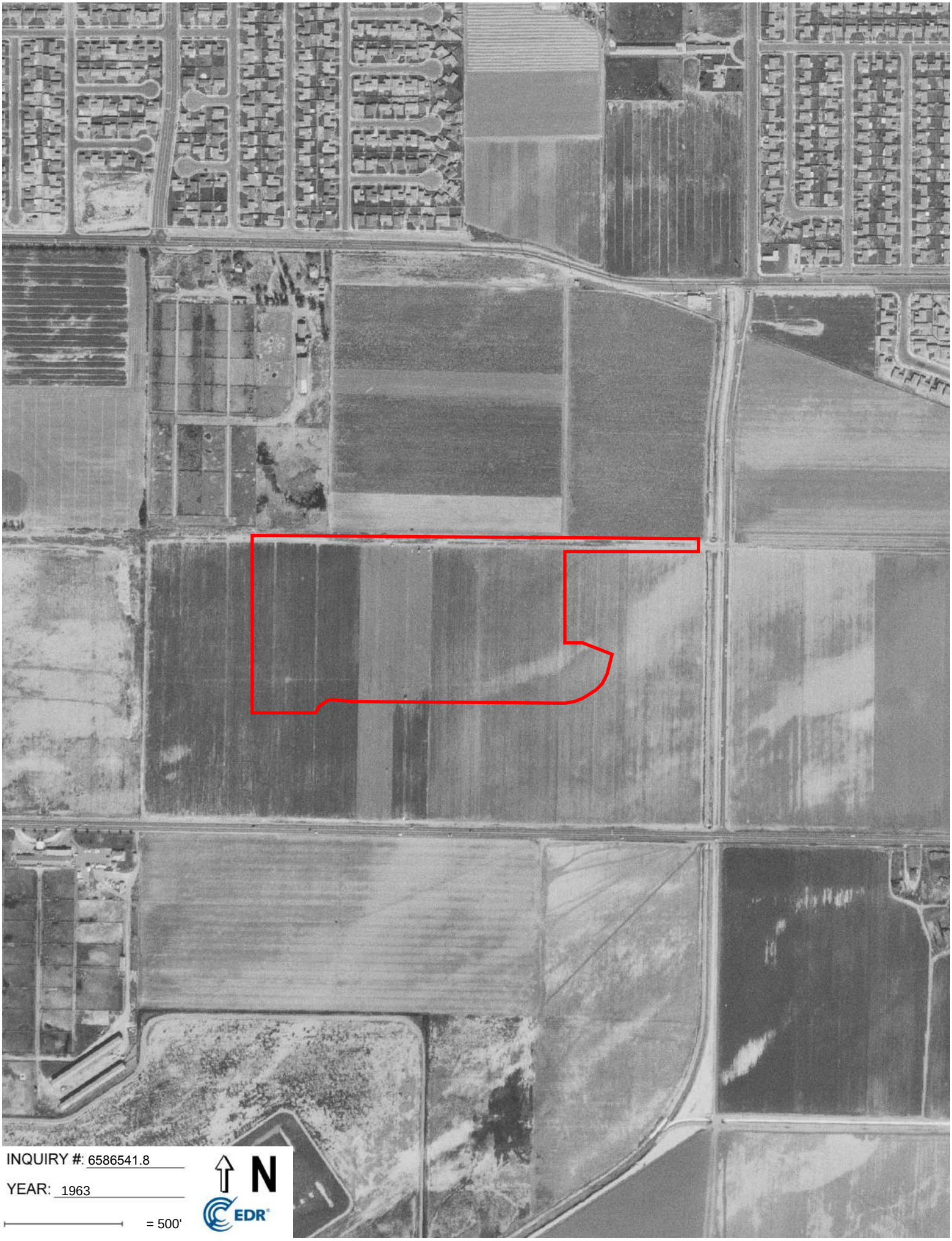
INQUIRY #: 6586541.8
YEAR: 1990
= 500'
N
EDR

INQUIRY #: 6586541.8
YEAR: 1983
= 500'
N
EDR

INQUIRY #: 6586541.8
YEAR: 1981
= 500'
N
EDR

INQUIRY #: 6586541.8
YEAR: 1979
= 500'
N
EDR

INQUIRY #: 6586541.8
YEAR: 1977
= 500'
N
EDR


INQUIRY #: 6586541.8
YEAR: 1963
= 500'
N
EDR

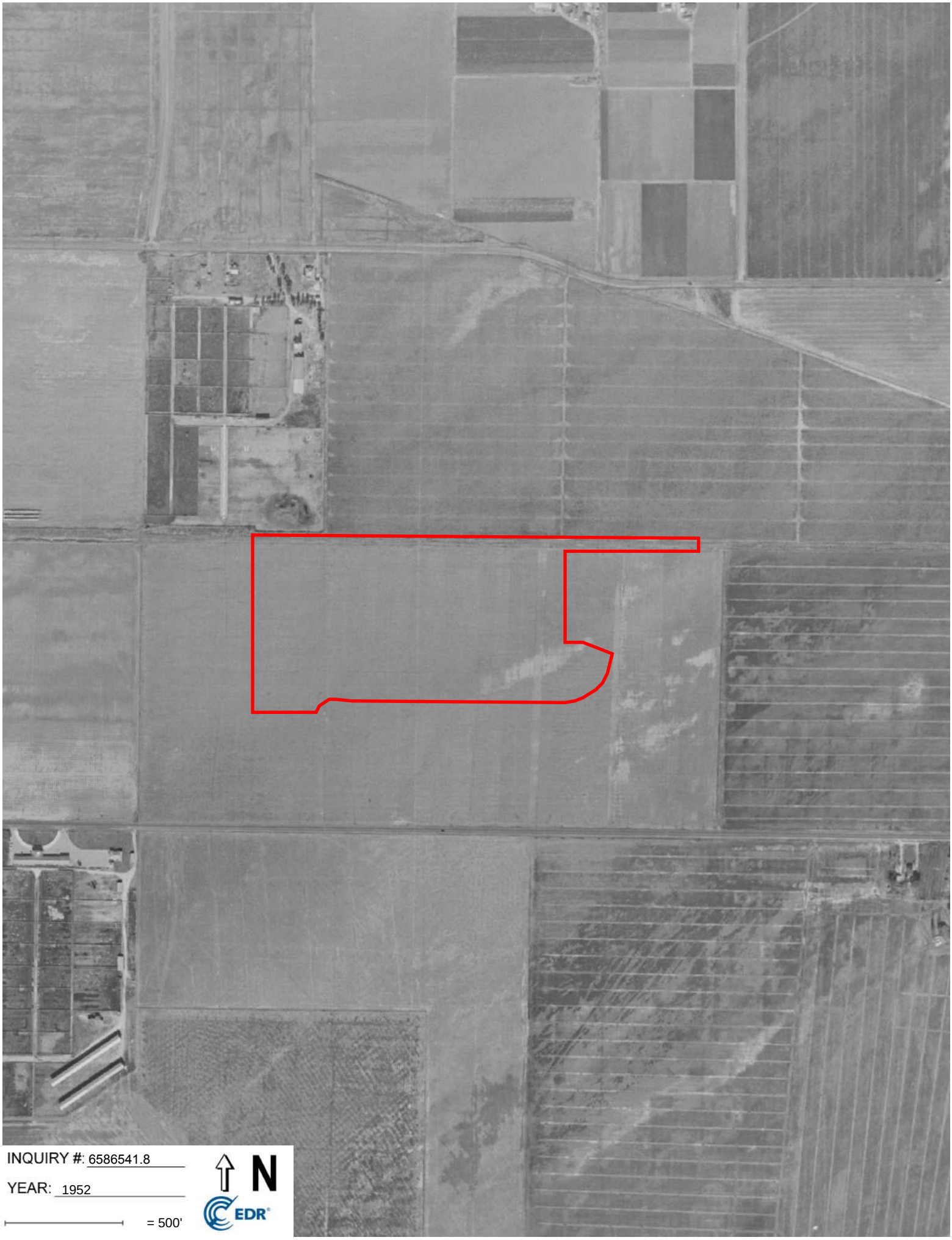
INQUIRY #: 6586541.8

YEAR: 1954

= 500'

N

EDR



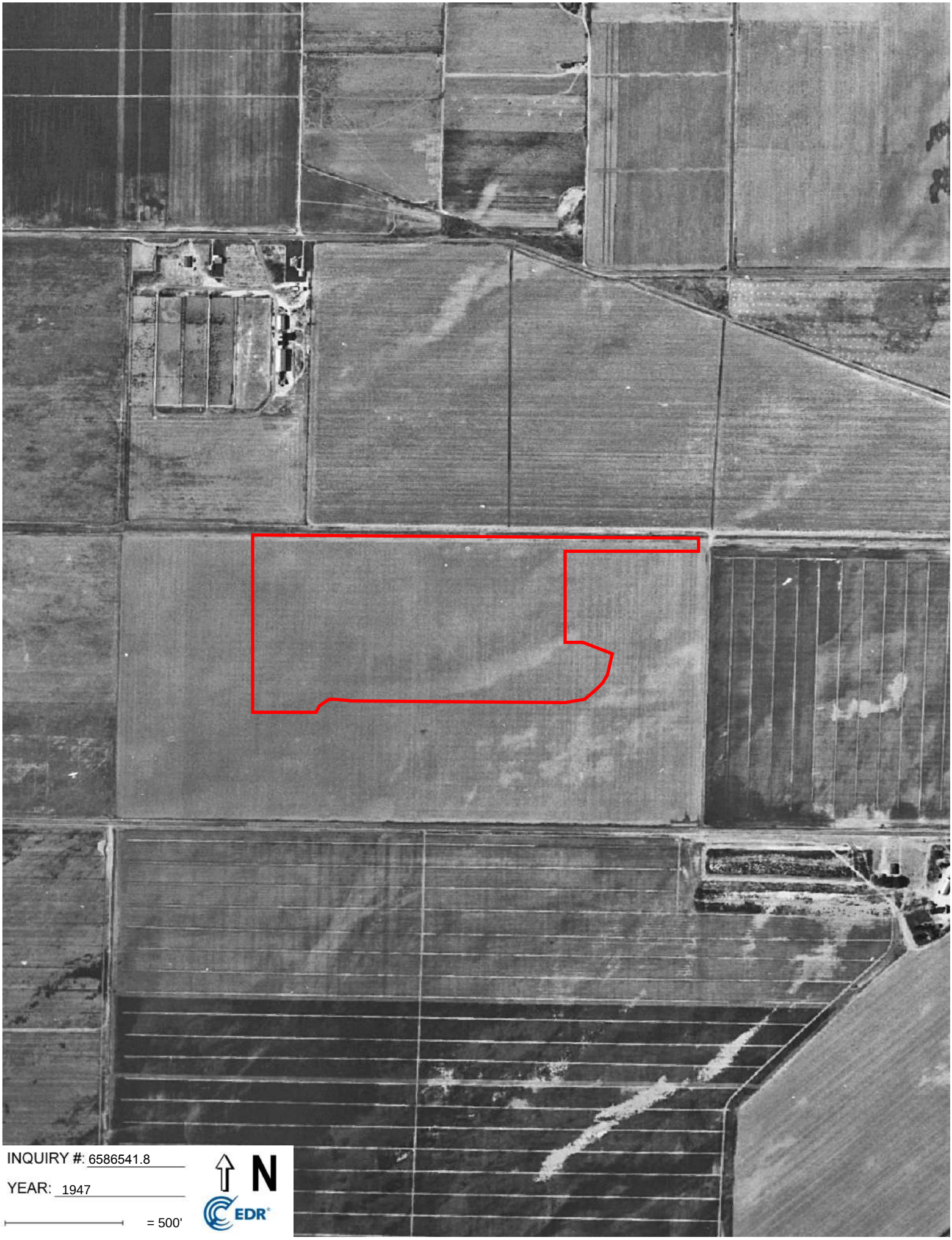
INQUIRY #: 6586541.8

YEAR: 1952

= 500'

N

EDR



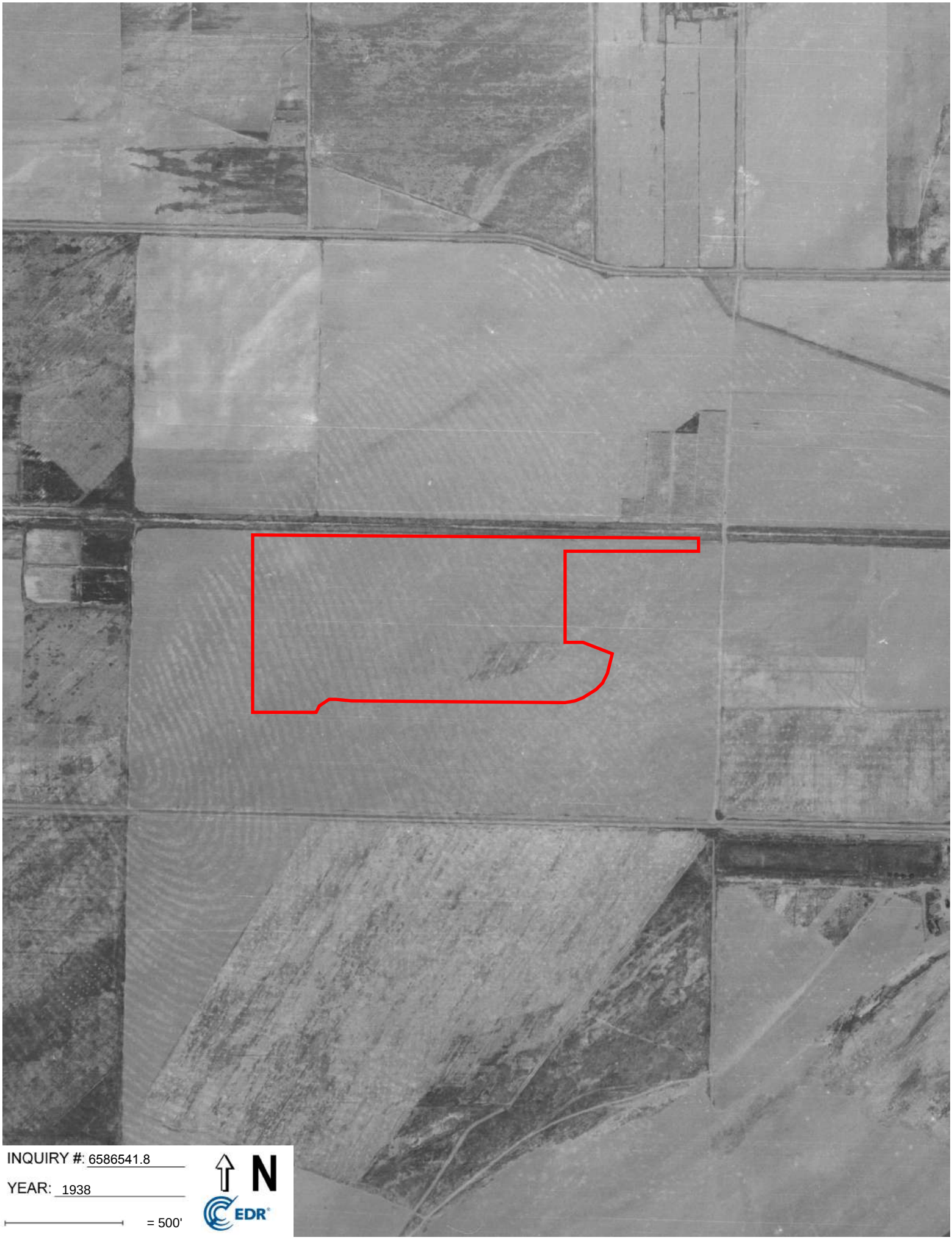
INQUIRY #: 6586541.8

YEAR: 1947

= 500'

N

EDR



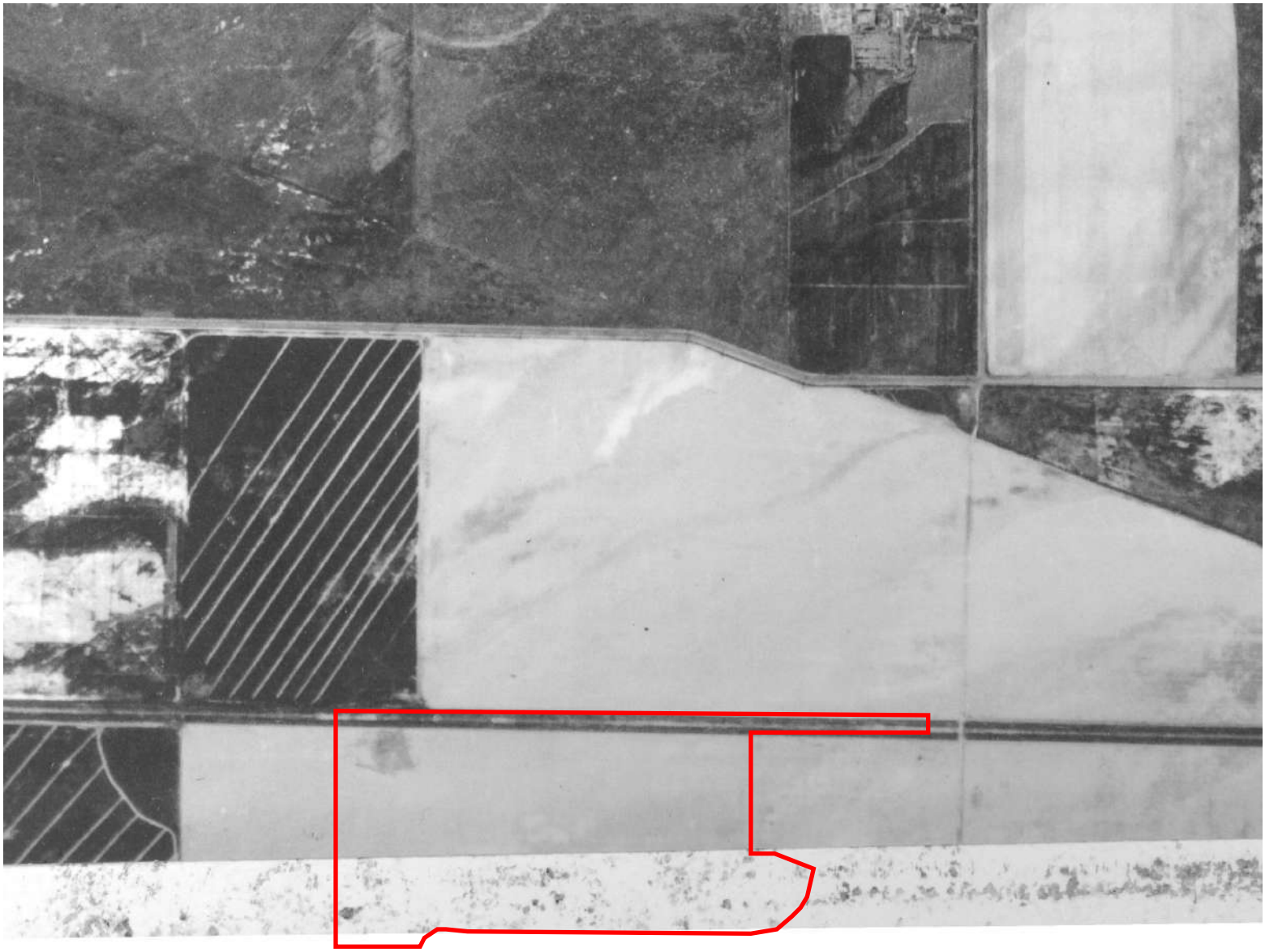
INQUIRY #: 6586541.8

YEAR: 1938

= 500'

N

EDR



INQUIRY #: 6586541.8

YEAR: 1928

= 500'

N

EDR

Goodman
5757 Plaza Drive
Cypress, CA 90630

Inquiry Number: 6586541.5
July 24, 2021

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by
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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2014	☑	☐	EDR Digital Archive
2010	☑	☐	EDR Digital Archive
2005	☑	☐	EDR Digital Archive
2000	☐	☐	EDR Digital Archive
1995	☑	☐	EDR Digital Archive
1992	☑	☐	EDR Digital Archive
1987	☑	☐	Haines Criss-Cross Directory
1982	☐	☐	Haines Criss-Cross Directory
1976	☐	☐	Haines Criss-Cross Directory
1973	☐	☐	Haines Criss-Cross Directory
1964	☐	☐	Luskey City Directory

FINDINGS

TARGET PROPERTY STREET

5757 Plaza Drive
Cypress, CA 90630

Year	*CD Image*	*Source*	
PLAZA DR			
2014	pg A1	EDR Digital Archive	
2010	pg A2	EDR Digital Archive	
2005	pg A3	EDR Digital Archive	
2000	-	EDR Digital Archive	Target and Adjoining not listed in Source
1995	pg A4	EDR Digital Archive	
1992	pg A5	EDR Digital Archive	
1987	pg A6	Haines Criss-Cross Directory	
1982	-	Haines Criss-Cross Directory	Street not listed in Source
1976	-	Haines Criss-Cross Directory	Street not listed in Source
1973	-	Haines Criss-Cross Directory	Street not listed in Source
1964	-	Luskey City Directory	Street not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

PLAZA DR 2014

5655	TASAKI, AKIRA
5665	CBHM BEACON
	PACIFIC RESIDENTIAL FINANCE
	TOYO TIRE
	TRANSFIRST CORPORATE SALES LLC
	TRANSWESTERN PROPERTY MGMNT
5757	BYBRID PROMOTIONS LLC
	HYBRID PROMOTIONS LLC
	TRIDENT UNIVERSITY INTERNATIONAL
5909	CRAMER, DIANE

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

PLAZA DR 2010

5655	TUI UNIVERSITY
5665	MITSUBISHI ELCTRC & ELCTRO USA
	MITSUBISHI ELEVATORS & ESCLTRS
	MONTRENES CONSULTING
	PACIFIC RESIDENTIAL FINANCE
	TELECOM RCN
	US MERCHANT SVC
5757	CENIC
	CUNNINGHAM WILLIAM J MD
	FRIEDMAN JON R MD
	FUJIMOTO JUDY S MD
	JACOMO JOHN R MD
	OBRYANT WILLIAM B MD
	PACIFI CARE OF CALIFORNIA
	PHILIPPS MICHAEL R MD
	SAKAMOTO EDWIN K MD

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

PLAZA DR 2005

5665	1ST US MERCHANT SERVICES
	MITSUBISHI ELECTRIC & ELECTRONICS US
	MONTRENES FINANCIAL SERVICES
	US MERCHANT SERVICES
5757	CENIC
	CORP FOR EDUCATION
	JACOBS ENGINEERING GROUP INC
	MITSUBISHI DIGITAL ELEC AMR
	NATIONAL LAMBDARAIL INC
	PACIFICATE HEALTH SYSTEMS
5995	DENTAL STRATEGIES
	HEALTH PLANS DIVISION
	PACIFICARE HEALTH SYSTEMS
	PACIFICARE LIFE AND HEALTH INSURANCE
	PACIFICARE VISION
	PHS
	REALTY ASSOCS FUND VI LOOP
	SECURE HORIZONS SENIOR SOLUTIONS

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

PLAZA DR 1995

5665 MITSUBISHI ELECTRONICS AMERICA
SUDA, Y

5757 ERICSSON BUSINESS COMMS
ISAKSSON, LEIF
LUNDGREN, BJORN
RYMERT, LARS T
SIOGREN, STIG

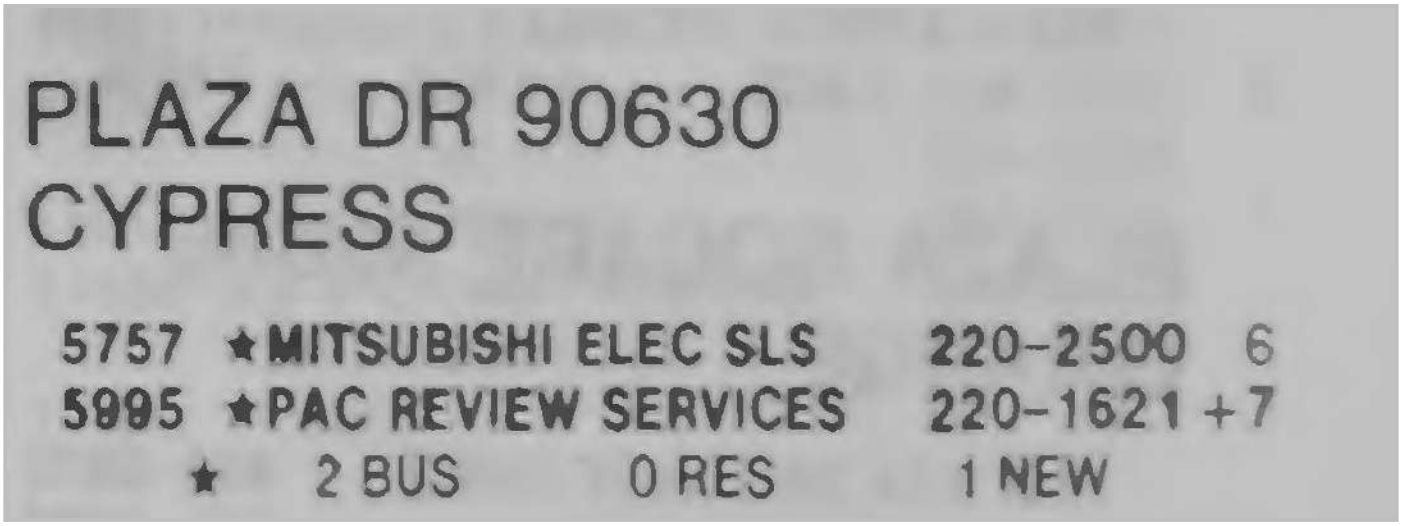
Target Street	Cross Street	Source
✓	-	EDR Digital Archive

PLAZA DR 1992

5757 MITSUBISHI ELEC SLS
5995 PACIFICARE

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

PLAZA DR 1987



PLAZA DR 90630
CYPRESS

5757 ★MITSUBISHI ELEC SLS 220-2500 6
5995 ★PAC REVIEW SERVICES 220-1621 +7
★ 2 BUS 0 RES 1 NEW

Appendix F AGENCY RECORDS

(34)

Job Address: 5665 Plaza Drive, Cypress, California 90630, #	**BUILDING DIVISION** Permit City of Cypress 5275 Orange Avenue Cypress, CA 90630 (714) 229-6730	Date: 5-21-2018	Permit Number: 8036
Tract No: Lot No: SR# _____ PC# _____		Permit Issued by: Andre Sanchez	

Residential: No **Commercial:** Yes **New** Yes **Addition** No **Alter** No **Demo** No

Planning Approval: **Engineering Approval:** **Area Sq.ft.** 0 **Valuation** $0.00
Conditions:

Applicant Information:	CHRIS BRADY / , , / Email - / Phone - (714) 429-1044
Owner Information:	CRAIG WRIGHT / , , / Email -
Contractor Information:	QUALITY DESIGN PLUMBING INC/ 11623 SLATER AVENUE #B- - Fountain Valley CA 92708 /24 Hour- Phone- (714) 429-1044/ License- 612363 - C36 / ID# - 2132
Arch/Eng Information:	/ / License - / Email - / Phone - / / License - / Email - / Phone -

COMMENTS/CONDITIONS/PROJECT DESCRIPTION:
UPGRADE TO MEDIUM PRESSURE GAS LINE

THIS PERMIT SHALL EXPIRE IF THE BUIDLING OR WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS. ALL WORK SHALL CONFORM TO THE 2016 CBC, CMC, CEC, CPC, CGC AND 2016 CA ENERGY CODE

FEES

Plan Check Fees		Permit Fees	
Building Plan Check:	$0.00	**Administrative BP:**	$0.00
Energy Plan Check:	$0.00	**Building BP:**	$0.00
Mech/Plumbing Plan Check:	$0.00	**Plumbing PHP:**	$27.00
Electrical Plan Check:	$0.00	**Heating/Mechanical PHP:**	$0.00
Expedited Plan Check:		**Electrical EP:**	$0.00
Other Plan Check:		**Other:**	
Total Plan Check Fees:	**$0.00**	**Total Permit Fees:**	**$27.00**

State Fees:		TOTAL FEES DUE	
CA Revolving Fee SB 1473:	$0.00	**Total Plan Check Fees:**	**$0.00**
CA SMIP CNSVTN:	$0.00	**Total Permit Fees:**	**$27.00**
Total State Fees:	**$0.00**	**Total State Fees:**	**$0.00**
		Total Fees Due	**$27.00**

OWNER BUILDER DECLARATION

I AM EXEMPT FROM THE CONTRACTORS LICENSE LAW FOR THE FOLLOWING REASON:

I, AS OWNER OF THE PROPERTY, OR MY EMPLOYEES WITH WAGES AS THEIR SOLE COMPENSATION, WILL DO THE WORK, AND THE STRUCTURE IS NOT INTENDED FOR, OR OFFERED FOR SALE (SECTION 7044, OF THE BUSINESS AND PROFESSIONS CODE).

I, AS OWNER OF THE PROPERTY AM EXCLUSIVELY CONTRACTING WITH LICENSED CONTRACTORS TO COMPLETE THE PERMITTED PROJECT UNDER THE PROVISIONS OF SECTION 7044, OF THE BUSINESS & PROFESSIONS CODE

FINANCE USE ONLY

(F)
6-19-18
ALAN

PAID
PAID MAY 21 2018 PAID
BY:

CERTIFICATE OF COMPLIANCE AND AUTHORIZING OF ENTRY: I certify I have read this application and state that the above information is correct. I agree to comply with all state laws and city ordinances and state laws relating to building construction, and authorize a representative of the Cypress to enter upon the property for which I have applied for this permit for the purpose of making inspections.

Applicant or Agent Date Building Department Date

5-21-18

5665 PLAZA DR

5665 PLAZA DR

(34)

LICENSED CONTRACTORS DECLARATION

I HEREBY CLAIM, UNDER PENALTY OF PERJURY, THE FOLLOWING STATEMENT: THAT I AM LICENSED UNDER PROVISIONS OF CHAPTER 9 COMMENCING WITH SECTION 7000 OF DIVISION 3 OF THE BUSINESS AND PROFESSIONS CODE, AND AT THIS TIME MY CONTRACTORS LICENSE IS CURRENT, ACTIVE AND IN FULL FORCE.

Contractor: QUALITY DESIGN PLUMBING INC/ 11623 SLATER AVENUE #B- - Fountain Valley CA 92708 /24 Hour- Phone- (714) 429-1044/ License- 612363 - C36 / ID# - 2132

CONTRACTOR TO PROVIDE ACCESS TO ROOF & ATTIC

X _____

WORKERS' COMPENSATION DECLARATION

____ I HEREBY CLAIM, UNDER PENALTY OF PERJURY, ONE OF THE FOLLOWING STATEMENTS:

____ I HAVE AND WILL MAINTAIN A CERTIFICATE OF CONSENT TO SELF INSURE FOR WORKERS COMPENSATION, AS PROVIDED FOR BY SECTION 3700 OF THE LABOR CODE FOR THE PERFORMANCE OF THE WORK FOR WHICH THIS PERMIT IS ISSUED.

____ I HAVE AND WILL MAINTAIN COMPENSATION INSURANCE AS REQUIRED BY SECTION 3700 OF THE LABOR CODE FOR THE PERFORMANCE OF THE WORK WHICH THIS PERMIT IS ISSUED

Carrier: TRUMBULL INSURANCE COMPANY

Policy #: 72WECAB10BB

Exp. Date: 01/01/2019

X _____

CERTIFICATE OF WORKERS COMPENSATION EXEMPTION

(THIS SECTION NEED NOT BE COMPLETED IF WORK IS $500 OR LESS)

No

____ I CERTIFY UNDER PENALTY OF PERJURY THAT IN THE PERFORMANCE OF THE WORK FOR WHICH THIS PERMIT IS ISSUED, THAT I SHALL NOT EMPLOY ANY PERSON IN A MANNER SO AS TO BECOME SUBJECT TO THE WORKERS COMPENSATION LAWS OF CALIFORNIA, AND AGREE THAT IF I SHOULD BECOME SUBJECT TO THE WORKERS COMPENSATION PROVISIONS OF SECTION 3700 OF THE LABOR CODE THAT I SHALL FORWITH COMPLY WITH THOSE PROVISIONS.

_____

Signature Date

INSPECTION RECORD

T.P.P	
SETBACKS	
SOIL WORK	
UFER	
FOOTINGS	
GROUT/STEEL	
GR.WORK	
UG ELECT	
SLAB	
JOISTS	
PRE-ROOF	
SHEATH	
IN PROGRESS	
RO PLUMBING	6-19-18 [illegible]
DUCTS	
R.ELECT	
CONDUIT	
FRAMING	
SEWER	
INSULATION	
DRYWALL	
EXT. LATH	
SC. COAT	
T-BAR	
GAS TEST	6-19-18 [illegible]
FINALS	6-19-18 [illegible]

PERMIT# : 8036 Date Permit Issued: 5-21-2018

Notes:

6-19-18 TEST GUAGE AT 40 PSI [illegible]

2.05

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA DRIVE, 2ND FLR.		CONTRACTOR FIRE PROTECTION SPECIALISTS	
LOT	TRACT	MAILING ADDRESS 2810 E. MIRALOMA AVE.	
PROPOSED USE		CITY ANAHEIM	STATE CA ZIP 92806
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. 714 635-6500	STATE LIC. NO. 464915
OWNER JACOB ENG.	TEL.	STATE LIC. CLASS C16	CITY BUS. LIC.
MAILING ADDRESS		ARCHITECT OR ENGINEER ROBERT ANDERSON	
CITY	STATE ZIP	STATE LIC. NO.	TEL. 714 635-6500

5665 Plaza

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL		ENGINEERING DEPT. APPROVAL	LOT SIZE
	INSTALL FIRE SPRINKLERS T.I. TOTAL HEADS (138)			LIMITED TIME USE FROM		LIMITED TIME USE TO	
				AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING -- LIN. FT.
				VALUATION $7,900			

125144

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	16.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	16.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20		.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft		TEMP. POWER POLES			15.00	
MOTORS OVER INC. HP	0 - 1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1 - 10		7.50		MISC.			11.00	
	10 - 50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
								TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	64.35	BUILDING PERMIT FEE	2001-11	99.00
ENERGY PLAN CHECK		S. B. 1374 (1 or 2)	2001-11	1.66
MECHANICAL/PLUMBING PLAN CHK.		PLUMBING PERMIT	3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT	3201-11	
ADMINISTRATIVE FEE		ELECTRICAL PERMIT	3202-11	
		TOTAL AMOUNT DUE		100.66

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

Signature of Permitee Robert Anderson Building Dept. OK 9/30/04

PERMIT NUMBER 83425

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

09/30/04 203.71 BD 99.00 1.66 100.66 CK

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C-16 License No. 464915 Exp. Date: 10-31-04

Signature [signature]

***TO ALL PERMITTEES:** In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☒ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier STATE FUND

Policy Number 1718477-2003

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: 9-30-04 Applicant: [signature]

Signature: [signature]

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 9-30-04 Signature [signature]

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS _____

EXPIRED
[illegible] 23 2007

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA DRIVE, 2ND FLR		CONTRACTOR CWC	
LOT	TRACT	MAILING ADDRESS 22982 LA CADENA, SUITE 10	
PROPOSED USE		CITY LAGUNA Hills	STATE CA ZIP 92653
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. (949) 770-5010	STATE LIC. NO. 658811
OWNER TREESE TEL.		STATE LIC. CLASS	CITY BUS. LIC. 0-034929-L
MAILING ADDRESS SAME AS ABOVE		ARCHITECT OR ENGINEER	
CITY STATE ZIP		STATE LIC. NO.	TEL.

5665 Plaza Dr.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL		LOT SIZE
VOICE & DATA CABLING				LIMITED TIME USE FROM		LIMITED TIME USE TO	
				AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING – LIN. FT.
LOW VOLTAGE				VALUATION			

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS: 140	1 to 20	20	.75	15 00	EACH METER	SERVICE 0-600V NOT OVER 200A	999-99	18.50	84.00
	OVER 20	120	.45	54 00		SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft		TEMP. POWER POLES			15.00	
MOTORS OVER INC. HP	0 - 1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1 - 10		7.50		MISC.			11.00	
	10 - 50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	15 00
								TOTAL FEE $	84 00

FEE SUMMARY

BUILDING PLAN CHECK 3620-11			BUILDING PERMIT FEE		
ENERGY PLAN CHECK			S. B. 1374 (1 or 2)	2001-11	
MECHANICAL/PLUMBING PLAN CHK.			PLUMBING PERMIT	3201-11	
ELECTRICAL PLAN CHECK			HEATING PERMIT	3201-11	
ADMINISTRATIVE FEE			ELECTRICAL PERMIT	3202-11	84.00
			TOTAL AMOUNT DUE		

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

Signature of Permitee _____ Building Dept. _____ 9/24/04

PERMIT NUMBER 83394

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: _____ License No. _____ Exp. Date: _____

Signature _____

***TO ALL PERMITTEES:** In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: 5665 PLAZA DR, 2ND FLR

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☑ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier GRANITE STATE

Policy Number WC 300-98-04

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: 9-24-04 Applicant: F.R. CRANE, CWC

Signature: F R Crane

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: _____ Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS _____

EXPIRED
AUG 23 2007

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS	5665 Plaza Dr - 2nd Floor	CONTRACTOR	K&S Air Conditioning
LOT / TRACT		MAILING ADDRESS	143 E Meats Ave
PROPOSED USE	Office Space	CITY / STATE / ZIP	Orange / CA / 92865
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL	/ / ALTER / / /	TEL / STATE LIC. NO.	(714) 685-0077 / 483431
OWNER / TEL.		STATE LIC. CLASS / CITY BUS. LIC.	C-20 / 0-027432-L
MAILING ADDRESS		ARCHITECT OR ENGINEER	K&S Air
CITY / STATE / ZIP	Cypress / CA /	STATE LIC. NO. / TEL	483431 / (714) 685-0077

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL / LOT SIZE
				LIMITED TIME USE FROM	LIMITED TIME USE TO
	MECH			AREA SQ. FT.	NO. STORIES / ROOF COVERING / FENCING – LIN. FT.
				VALUATION	

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75		22.	DUCT ALT. or ADD	6.50	143-
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	15-
	MISC.	6.00			PLUMBING/HEATING TOTAL				HEATING TOTAL $		158-

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20		.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft		TEMP. POWER POLES			15.00	
MOTORS OVER INC. HP	0 - 1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1 - 10		7.50		MISC.			11.00	
	10 - 50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
								TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11		BUILDING PERMIT FEE	S. B. 1374 (1 or 2)	2001-11
ENERGY PLAN CHECK			PLUMBING PERMIT	3201-11
MECHANICAL/PLUMBING PLAN CHK.	52.50		HEATING PERMIT	3201-11
ELECTRICAL PLAN CHECK	105.00		ELECTRICAL PERMIT	3202-11
ADMINISTRATIVE FEE	1.00		TOTAL AMOUNT DUE	
	158.50			

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

PERMIT NUMBER 83390

Signature of Permitee _____ Building Dept. _____ 9/23/04

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

09/23/04 15:58:10 158.50

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C-20 License No. 483431 Exp. Date: 11/30/05

Signature _____

***TO ALL PERMITTEES:** In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☑ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier Virginia Surety Company

Policy Number ICG6014 9500

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: 8/23/01 Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: _____ Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS _____

EXPIRED
AUG 23 2001
CITY OF CYPRESS
BUILDING DIVISION

2.34

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 Plaza Dr 2nd FL.		CONTRACTOR PYRO-COMM SYS. INC.	
LOT	TRACT	MAILING ADDRESS 15531 CONTAINER LANE	
PROPOSED USE		CITY HUNTINGTON BEACH STATE CA ZIP 92649	
NEW / ADD / ALTER ✓ / REPAIR / DEMOLISH / SPECIAL		TEL (714) 902-8000	STATE LIC. NO. [redacted] 612153
OWNER	TEL.	STATE LIC. CLASS C-10	CITY BUS. LIC. 029581-L
MAILING ADDRESS Jacobs Eng.		ARCHITECT OR ENGINEER	
CITY	STATE ZIP	STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL	LOT SIZE
	Fire Alarm System for T.I.			LIMITED TIME USE FROM	LIMITED TIME USE TO	
				AREA SQ. FT.	NO. STORIES	ROOF COVERING / FENCING -- LIN. FT.
				VALUATION 9000		

SR 122623

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20		.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft		TEMP. POWER POLES			15.00	
MOTORS OVER INC. HP	0 - 1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1 - 10		7.50		MISC.			11.00	
	10 - 50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
								TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11		BUILDING PERMIT FEE		108.00
ENERGY PLAN CHECK		S. B. 1374 (1 or 2)	2001-11	1.89
MECHANICAL/PLUMBING PLAN CHK.		PLUMBING PERMIT	3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT	3201-11	
ADMINISTRATIVE FEE	70.20	ELECTRICAL PERMIT	3202-11	
		TOTAL AMOUNT DUE		109.89

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

Signature of Permitee [signature] Building Dept. [signature] 10/13/04

PERMIT NUMBER 83477

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

8-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C10 License No. 012153 Exp. Date: 2/1/05

Signature [signature]

TO ALL PERMITTEES: *In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier CIGNA & FOSTER

Policy Number _____

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: 10/13/04 Applicant: PYRO COMM SYSTEMS INC

Signature: [signature]

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 10/13/04 Signature [signature]

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS _____

EXPIRED
AUG 23 2007
CITY OF CYPRESS
BUILDING DIVISION

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

5665 Plaza 2nd Fl

JOB ADDRESS 5665 Plaza 2nd FL		CONTRACTOR Access Electric, Inc.	
LOT	TRACT	MAILING ADDRESS 1533 W. Orangewood Ave.	
PROPOSED USE		CITY Orange	STATE CA ZIP 92868
NEW / ADD / ALTER ✓ / REPAIR / DEMOLISH / SPECIAL		TEL. 714 289-1950	STATE LIC. NO. 823703
OWNER Mitsubishi	TEL.	STATE LIC. CLASS C-10	CITY BUS. LIC.
MAILING ADDRESS		ARCHITECT OR ENGINEER	
CITY	STATE ZIP	STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL / LOT SIZE
	Elect for T.I.			LIMITED TIME USE FROM	LIMITED TIME USE TO
				AREA SQ. FT.	NO. STORIES / ROOF COVERING / FENCING – LIN. FT.
				VALUATION	

5665 Plaza 2nd Floor

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS: $0	1 to 20	20	.75	15.00	EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20	58	.45	26.10		SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES		208	.75	156.00	PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft		TEMP. POWER POLES			15.00	
MOTORS OVER INC. HP	0 - 1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1 - 10		7.50		MISC.			11.00	
	10 - 50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE		1	15.00	15.00
								TOTAL FEE $	212.10

FEE SUMMARY

BUILDING PLAN CHECK 3620-11			BUILDING PERMIT FEE		
ENERGY PLAN CHECK			S. B. 1374 (1 or 2)	2001-11	
MECHANICAL/PLUMBING PLAN CHK.	52.01		PLUMBING PERMIT	3201-11	
ELECTRICAL PLAN CHECK	202.11	267.08	HEATING PERMIT	3201-11	
ADMINISTRATIVE FEE	11.07		ELECTRICAL PERMIT	3202-11	212.10
	9.89		TOTAL AMOUNT DUE		479.18

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

Signature of Permitee [signature] Building Dept. Ofsuka 9/21/04

PERMIT NUMBER 83373

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

50.00 257.08 212.10 09/21/04 5:59:18 29.18.95

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C-10 License No. 823703 Exp. Date: 9/30/2008

Signature _____

TO ALL PERMITTEES: *In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier State Fund

Policy Number 465-0000140-2002

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (*Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair* any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 9/21/07 Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS _____

EXPIRED
AUG 23 2007
CITY OF CYPRESS
BUILDING DIVISION

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630

JOB ADDRESS 5665 Plaza Drive - # 101		CONTRACTOR Communication Technology Svcs	
LOT	TRACT	MAILING ADDRESS 3 Point Dr. #204	
PROPOSED USE		CITY Brea.	STATE Ca. ZIP 92821
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. 714-671-3840	STATE LIC. NO. 746065
OWNER Sony	TEL.	STATE LIC. CLASS	CITY BUS. LIC.
MAILING ADDRESS		ARCHITECT OR ENGINEER	
CITY Cypress	STATE Ca. ZIP 90630	STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION Low Voltage - Voice/Data Voice & Data Cabling			PLANNING DEPT. APPROVAL		ENGINEERING DEPT. APPROVAL	LOT SIZE
				LIMITED TIME USE FROM		LIMITED TIME USE TO	
				AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING -- LIN. FT.
				VALUATION			

5665

PLUMBING/HEATING

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING $				HEATING	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL				HEATING TOTAL $		

Plaza 101

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75	
	OVER 20		.45	
LIGHTING FIXTURES			.75	
RANGE-OVEN-GAR. DISP.			3.00	
DISHWASHER-KIT. FAN			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.00	
	1 - 10		7.50	
	10 - 50		15.00	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	SERVICE 600V OVER 200A		37.50	
PANEL BOARD			11.00	
SWIM POOL/SPA			30.00	
TIME CLOCK			3.00	
SIGNS	NO. TRANS OR BALS.		15.00	
	NO. LAMPS		3.00	
TEMP. POWER			15.00	
ADDITIONAL SUPPORT POLES			7.50	
MISC. low voltage		1	11.00	11—
SUPPLEMENTARY PERMIT			4.50	
PERMIT FEE			15.00	15—
			TOTAL FEE $	26—

FEE SUMMARY

BUILDING PLAN CHECK 3620-11		BUILDING PERMIT FEE	
ENERGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	
MECHANICAL/PLUMBING PLAN		PLUMBING PERMIT	
ELECTRICAL PLAN CHECK		HEATING PERMIT	
ADMINISTRATIVE FEE		ELECTRICAL PERMIT 3202-11	26—
		TOTAL AMOUNT	26—

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

Signature of Permitee _____ Building Dept. Otsuka 8-9-05

PERMIT NUMBER 85091

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE, AND RECEIPT ARE IMPRINTED BELOW.

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C-7 License No. 746065 Exp. Date: _____

Signature _____

***TO ALL PERMITTEES:** In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: 5665 Plaza Dr. #101

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier State Compensation Insurance Fund.

Policy Number 1678304-05

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: _____ Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. Cable Jacks 8/12/05
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS _____

FEB 2 6 2007

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS	5665 PLAZA DRIVE 2nd Floor					CONTRACTOR	DETECTION LOGIC		
LOT		TRACT				MAILING ADDRESS	2100 S. FIGUEROA ST. #300		
PROPOSED USE						CITY	Los Angeles	STATE CA.	ZIP 90007
NEW	ADD	ALTER	REPAIR	DEMOLISH	SPECIAL	TEL.	2137456800	STATE LIC. NO.	713099
OWNER		TEL.				STATE LIC. CLASS	C10-C16	CITY BUS. LIC.	0-035389-L
MAILING ADDRESS						ARCHITECT OR ENGINEER			
CITY	Cypress	STATE CA	ZIP 90630			STATE LIC. NO.		TEL.	

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL		ENGINEERING DEPT. APPROVAL	LOT SIZE
	fire alarm			LIMITED TIME USE FROM		LIMITED TIME USE TO	
	131846			AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING – LIN. FT.
				VALUATION 1945 –			

5665 Plaza 2nd floor

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER SERVICE 0-600V NOT OVER 200A			18.50	
	OVER 20		.45		SERVICE 600V OVER 200A			37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft		TEMP. POWER POLES			15.00	
MOTORS OVER INC. HP	0 - 1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1 - 10		7.50		MISC.			11.00	
	10 - 50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE	3107-11-999-99		15.00	40.50
						5200-11-999-99		TOTAL FEE $	45.00
						2001-11-999-99			0.51

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	29.25	BUILDING PERMIT FEE		45.00	11/22/05
ENERGY PLAN CHECK		S. B. 1374 (1 or 2)	2001-11	CK .51	86.01
MECHANICAL/PLUMBING PLAN CHK.		PLUMBING PERMIT	3201-11		$86.01 PD
ELECTRICAL PLAN CHECK		HEATING PERMIT	3201-11		
ADMINISTRATIVE FEE		ELECTRICAL PERMIT	3202-11		
		TOTAL AMOUNT DUE		45.51	

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 85587

Signature of Permitee [signature] Building Dept. [signature] 11-21-05

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

11/10/05 23.25 7.50 16.75 PD
625.00 62.50

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C16 License No.: 713099 Exp. Date: 10/31/07

Signature _____

***TO ALL PERMITTEES:** In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier EVEREST NATIONAL INS. CO.

Policy Number AHC 00108-01

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO *ONE HUNDRED THOUSAND* DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 1-23-06 Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS _____

EXPIRED
FEB 26 2007
CITY OF
BUILDING

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA DRIVE			CONTRACTOR FIRE PROTECTION SPECIALISTS		
LOT	TRACT		MAILING ADDRESS 2810 E NIRALOMA AVE		
PROPOSED USE			CITY ANAHEIM	STATE CA	ZIP 92806
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL			TEL. 714-635-6500	STATE LIC. NO. 464915	
OWNER PACIFIC RESIDENTIAL			STATE LIC. CLASS C16	CITY BUS. LIC.	
MAILING ADDRESS			ARCHITECT OR ENGINEER ROB ANDERSON		
CITY CYPRESS	STATE CA	ZIP 90630	STATE LIC. NO. 464915	TEL. 714-635-6500	

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL	LOT SIZE
ADD/RELOCATE (14) FIRE SPRINKLER HEAD				LIMITED TIME USE FROM	LIMITED TIME USE TO	
				AREA SQ. FT.	NO. STORIES	ROOF COVERING / FENCING -- LIN. FT.
				VALUATION 1750-		

5665 Plaza

133430

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20		.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft		TEMP. POWER POLES			15.00	
MOTORS OVER INC. HP	0 - 1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1 - 10		7.50		MISC.			11.00	
	10 - 50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
								TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11		BUILDING PERMIT FEE	41.00
ENERGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	.50
MECHANICAL/PLUMBING PLAN CHK.		PLUMBING PERMIT 3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT 3201-11	
ADMINISTRATIVE FEE	26.65	ELECTRICAL PERMIT 3202-11	
		TOTAL AMOUNT DUE	41.50

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

Signature of Permitee [signature] Building Dept. Otsuka 12-8-05

PERMIT NUMBER 85644

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

26.65 290.00 22.00 345.65 PD 12/08/05 345.65	41.00 0.50 42.00 12/08/05 42.00 PD

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C16 License No. 464915 Exp. Date: 10/31/2006

Signature Johnt Gonzales

***TO ALL PERMITTEES:** In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT *RECORD:*

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☒ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier STATE AND FUND

Policy Number 1718477-2004

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: 12/14/05 Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 12/14/05 Signature Johnt Gonzales

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO *WILL THE INTENDED USE* OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION *FROM THE SOUTH COAST* AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS _____

RECEIVED
FEB 2 6 2007

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA DR #105					CONTRACTOR CONTROL AIR COND. CORP.
LOT	TRACT				MAILING ADDRESS 5200 E LA PALMA AVE
PROPOSED USE					CITY ANAHEIM STATE CA ZIP 92807
NEW	ADD	ALTER	REPAIR	DEMOLISH	SPECIAL
OWNER PACIFIC RESID. TEL.					STATE LIC. CLASS C-20 CITY BUS. LIC. 0-025458-L
MAILING ADDRESS					ARCHITECT OR ENGINEER
CITY STATE ZIP					STATE LIC. NO. TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL		ENGINEERING DEPT. APPROVAL	LOT SIZE
	HVAC FOR IT			LIMITED TIME USE FROM		LIMITED TIME USE TO	
				AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING – LIN. FT.
				VALUATION			

PLUMBING PERMIT

NO.	ITEM		AMOUNT
	WATER CLOSET	7.25	
	BATH TUB	7.25	
	SHOWER	7.25	
	LAVATORY	7.25	
	SINK	7.25	
	DISHWASHER	7.25	
	LAUNDRY TUB	7.25	
	CLOTHES WASHER	7.25	
	FLOOR DRAIN	7.25	
	FLOOR SINK	7.25	
	MISC.	7.25	
	MISC.	7.25	
	MISC.	7.25	

NO.	ITEM		AMOUNT
	WATER HEATER	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5	1.00	
	VACUUM BREAKER	9.00	
	INSTALL OR ALTER WATER SYSTEM	3.75	
	INSTALL OR ALTER WASTE OR VENTS	3.75	
	HOUSE SEWER	54.00	
	CONNECT ADD. H.S.	3.75	
	P-TRAP POOL DRN.	7.25	
	SEWER CAP	7.25	
	PLUMBING PERMIT	18.00	
	PLUMBING TOTAL $		

MECHANICAL / HEATING PERMIT

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	11.00	
	OVER 100M	13.25	
	DUCT ALT. or ADD	8.00	
	KITCHEN - BATH VENT	5.50	
	COMM. HOOD	11.00	
2	A.C. UNIT	11.00	22—
	WALL FURNACE / F.P.	11.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5 COST EACH	1.00	
	SMOKE / FIRE DAMPER	8.00	
	MISC.	11.00	
	HEATING PERMIT	18.00	18—
	HEATING TOTAL $		40—

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS / SWITCHES / SMOKE DETECTORS	1 to 20		1.00	
	OVER 20		.60	
LIGHTING FIXTURES			1.00	
RANGE - OVEN - GARBAGE DISPOSAL			3.75	
DISHWASHER - KITCHEN FAN			3.75	
CLOTHES WASHER/DRYER			3.75	
WATER HTR. POOL HTR. SPACE HTR.			3.75	
NEW RESIDENTIAL OUTLETS			.042 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.75	
	1 - 10		9.00	
	10 - 50		18.00	
MISC. / ARC FAULT			13.25	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		22.50	
	SERVICE 600V OVER 200A		45.00	
	SERVICE 600V OVER 400A		90.00	
PANEL BOARD			13.25	
TRANSFORMERS			13.25	
SWIM POOL/SPA			36.00	
TIME CLOCK			3.75	
SIGNS	NO. TRANS. / BALLASTS / INVERTERS		18.00	
	NO. LAMPS / LETTERS		3.75	
TEMPORARY POWER POLES			18.00	
SUPPLEMENTARY PERMIT			6.00	
PERMIT FEE			18.00	
			TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11		BUILDING PERMIT FEE 3200-11	
ENERGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	
MECHANICAL/PLUMBING PLAN CHK.	99.00 + 49.50	PLUMBING PERMIT 3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT 3201-11	40—
ADMINISTRATIVE FEE	35.00	ELECTRICAL PERMIT 3202-11	
	148.50 + ~~10.70~~ 13.75 = 197.25	TOTAL AMOUNT DUE $	237.25

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended. I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

Signature of Permitee Vincent Carter Building Dept. DFonka 5-25-06

PERMIT NUMBER 86280

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

	05/25/06 #237.25 FT
	05/25/06 237.25
	05/25/06 237.25

B-1 Building Permit Application rev. 03-06 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C-20 License No. 369439 Exp. Date: 2-28-07

Signature Vincent Carter

***TO ALL PERMITTEES:** In accordance with AB 443, the Workers' Compensation Insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.*

WORKERS' COMPENSATION INSURANCE DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☒ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier AMERICAN ZURICH INS CO

Policy Number WC 3486898

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: 3-25-06 Applicant: _____

Signature: Vincent Carter

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 3-25-06 Signature Vincent Carter

City License 0-025458-0

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P.	
Setbacks	
Soil Work	
Uffer	
Footings	
Grout/Steel	
Gr. Work	
UG Elect	
Slab	
Joists	
Pre-roof	
Sheath	
In Prog.	
R. Plbg.	
Ducts	
R.Elect.	
Conduit	
Framing	
Sewer	
Insulation	
Drywall	
Ext. Lath	
Sc. Coat	
T-Bar	
Gas Test	

FINALS _____

EXPIRED
FEB 26 2007
CITY OF CYPRESS
BUILDING DIVISION

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA DRIVE - SUITE 105		CONTRACTOR DETECTION LOGIC	
LOT	TRACT	MAILING ADDRESS 1 PETERS CANYON, SUITE 110	
PROPOSED USE		CITY IRVINE	STATE CA ZIP 92606
NEW / ADD / ALTER ✓ / REPAIR / DEMOLISH / SPECIAL		TEL. 714-505-1800	STATE LIC. NO. 713099
OWNER Pacific Residential TEL.		STATE LIC. CLASS C-16-46	CITY BUS. LIC. 0-635389-L
MAILING ADDRESS		ARCHITECT OR ENGINEER	
CITY STATE ZIP		STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL	LOT SIZE
				LIMITED TIME USE FROM	LIMITED TIME USE TO	
	FIRE ALARM			AREA SQ. FT.	NO. STORIES / ROOF COVERING / FENCING -- LIN. FT.	
				VALUATION $1750		

SR - 130481

5665 PLAZA

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	9.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20		.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft		TEMP. POWER POLES			15.00	
MOTORS OVER INC. HP	0 - 1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1 - 10		7.50		MISC.			11.00	
	10 - 50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
								TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11		BUILDING PERMIT FEE	41.00
ENERGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	.50
MECHANICAL/PLUMBING PLAN CHK.		PLUMBING PERMIT 3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT 3201-11	
ADMINISTRATIVE FEE	26.65	ELECTRICAL PERMIT 3202-11	
		TOTAL AMOUNT DUE	41.50

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 85690

Signature of Permitee _____ Building Dept. Oseka 12-21-05

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

114-15 12/02/05 25.00 26.65	142-20 12/21/05 41.00 0.50
	142-20 12/21/05 42.00 PD

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C10/16 License No. 703099 Exp. Date: 10/31/06

Signature _____

TO ALL PERMITTEES: *In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier SEABRIGHT INS. CO.

Policy Number BB1050611

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law *does not apply to an owner of a property who builds or improves thereon,* and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ *I am exempt under Section* _____ *B. & P. C. for this reason*

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 12/2/05 Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR *GUIDELINES*.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS _____

EXPIRED
FEB 2 6 2007
CITY OF
BUILDING DIVISION

205

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630

JOB ADDRESS 5665 PLAZA DR		CONTRACTOR SIMPLEX GRINNELL	
LOT SUITE 110	TRACT	MAILING ADDRESS 1701 SEQUOIA AVE	
PROPOSED USE		CITY ORANGE	STATE CA ZIP 92868
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL (714) 870-1010	STATE LIC. NO. 802591
OWNER Rreef Mgt.	TEL.	STATE LIC. CLASS C10 C16 HIC ASB	CITY BUS. LIC.
MAILING ADDRESS		ARCHITECT OR ENGINEER OZZIE MERCADO	
CITY	STATE ZIP	STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL		LOT SIZE
FIRE ALARM SYSTEM FOR SUITE 110 (SONY				LIMITED TIME USE FROM		LIMITED TIME USE TO	
				AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING -- LIN. FT.
				VALUATION $7,900.00			

SR# 120443

5665 Plaza

PLUMBING/HEATING

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING	$			HEATING	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75	
	OVER 20		.45	
LIGHTING FIXTURES			.75	
RANGE-OVEN-GAR. DISP.			3.00	
DISHWASHER-KIT. FAN			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.00	
	1 - 10		7.50	
	10 - 50		15.00	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	SERVICE 600V OVER 200A		37.50	
PANEL BOARD			11.00	
SWIM POOL/SPA			30.00	
TIME CLOCK			3.00	
SIGNS	NO. TRANS OR BALS.		15.00	
	NO. LAMPS		3.00	
TEMP. POWER			15.00	
ADDITIONAL SUPPORT POLES			7.50	
MISC.			11.00	
SUPPLEMENTARY PERMIT			4.50	
PERMIT FEE			15.00	
			TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11		BUILDING PERMIT FEE	99.00
ENERGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	1.60
MECHANICAL/PLUMBING PLAN CHECK	52.11	PLUMBING PERMIT	3107-11 99.00
ELECTRICAL PLAN CHECK	204.11	HEATING PERMIT	3200-11
ADMINISTRATIVE FEE	44.35 ck# 104	ELECTRICAL PERMIT 3202-11	2001-11-99 99.00
	1.11	TOTAL AMOUNT	400.16

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

Signature of Permittee [signature] Building Dept. OSUNA 10-26-05

PERMIT NUMBER 85438

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

5.08	2.05
99.00	99.00
1.60	1.60
102.71	102.71 PD
10/26/05	10/26/05
45220	

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: _____ License No. 802591 Exp. Date: 12-31-05

Signature _____

***TO ALL PERMITTEES:** In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier AMERICAN HOME ASSURANCE CO.

Policy Number RAWC 66 10 498

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I *shall not* employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection purposes.

Date: _____ Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS _____

RECEIVED
FEB 26 2007

$740.15

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630

JOB ADDRESS 5665 Plaza Dr.		CONTRACTOR SIMPLEX GRINNELL	
LOT	TRACT	MAILING ADDRESS 1701 SEQUOIA AVE	
PROPOSED USE		CITY ORANGE	STATE CA ZIP 92868
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. 714 [illegible] - 1010	STATE LIC. NO.
OWNER REEFF	TEL.	STATE LIC. CLASS 870	CITY BUS. LIC.
MAILING ADDRESS 1701 W. SEQUOIA AVE		ARCHITECT OR ENGINEER	
CITY ORANGE	STATE CA ZIP 92868	STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL / LOT SIZE
FIRE ALARM SYST. FOR RREEF CORRIDOR & GROUND FLOOR SUITE 120 & 142				LIMITED TIME USE FROM	LIMITED TIME USE TO
				AREA SQ. FT.	NO. STORIES / ROOF COVERING / FENCING -- LIN. FT.
				VALUATION 5,397	

5665 Plaza

PLUMBING/HEATING

NO.	ITEM		AMOUNT
	WATER CLOSET	6.00	
	BATH TUB	6.00	
	SHOWER	6.00	
	LAVATORY	6.00	
	SINK	6.00	
	DISHWASHER	6.00	
	LAUNDRY TUB	6.00	
	CLOTHES WASHER	6.00	
	FLOOR DRAIN	6.00	
	FLOOR SINK	6.00	
	MISC.	6.00	
	MISC.	6.00	
	MISC.	6.00	

NO.	ITEM		AMOUNT
	WATER HEATER	7.50	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5	.75	
	VACUUM BREAKER	7.50	
	INSTALL OR ALTER WATER SYSTEM	3.00	
	INSTALL OR ALTER WASTE OR VENTS	3.00	
	HOUSE SEWER	45.00	
	CONNECT ADD. H.S.	3.00	
	P-TRAP POOL DRN.	6.00	
	SEWER CAP	6.00	
	PLUMBING PERMIT	15.00	
	PLUMBING	$	
	PLUMBING/HEATING TOTAL		

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	9.00	
	OVER 100M	11.00	
	DUCT ALT. or ADD	6.50	
	KITCHEN-BATH VENT	4.50	
	COMM. HOOD	6.50	
	A.C. UNIT	9.00	
	WALL FURNACE	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5 COST EACH	.75	
	EVAP 1 - 10M	6.50	
	EVAP OVER 10M	11.00	
	HEATING	15.00	
	HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75	
	OVER 20		.45	
LIGHTING FIXTURES			.75	
RANGE-OVEN-GAR. DISP.			3.00	
DISHWASHER-KIT. FAN			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.00	
	1 - 10		7.50	
	10 - 50		15.00	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	SERVICE 600V OVER 200A		37.50	
PANEL BOARD			11.00	
SWIM POOL/SPA			30.00	
TIME CLOCK			3.00	
SIGNS	NO. TRANS OR BALS.		15.00	
	NO. LAMPS		3.00	
TEMP. POWER			15.00	
ADDITIONAL SUPPORT POLES			7.50	
MISC.			11.00	
SUPPLEMENTARY PERMIT			4.50	
PERMIT FEE			15.00	
			TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11		BUILDING PERMIT FEE S. B. 1374 (1 or 2) 2001-11	81.00 1.13
ENERGY PLAN CHECK		PLUMBING PERMIT 3101-11	
MECHANICAL/PLUMBING PLAN	20.49	HEATING PERMIT 3201-11	
ELECTRICAL PLAN CHECK	30.08	ELECTRICAL PERMIT 3202-11	
ADMINISTRATIVE FEE	52.65 CK#102	TOTAL AMOUNT	82.13

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 85543

Signature of Permittee [signature] Building Dept. [signature] 11-14-05

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C10 C16 License No. 802591 Exp. Date: 12-31-05

Signature _____

TO ALL PERMITTEES: *In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier AMERICAN HOME ASSURANCE Co.

Policy Number RAWC 6610998

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: _____ Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS _____

FEB 2 6 2007

(39)

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS	5665 Plaza Dr.						CONTRACTOR	C4B Electric	
LOT		TRACT					MAILING ADDRESS	17871 Santiago Blvd.	
PROPOSED USE							CITY	Villa Park	STATE CA ZIP 92861
NEW	ADD X	ALTER	REPAIR	DEMOLISH	SPECIAL		TEL.	714 636-6397	STATE LIC. NO. 385577
OWNER	Turo University		TEL.				STATE LIC. CLASS	C-10	CITY BUS. LIC.
MAILING ADDRESS							ARCHITECT OR ENGINEER		
CITY			STATE	ZIP			STATE LIC. NO.		TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL		ENGINEERING DEPT. APPROVAL	LOT SIZE
				LIMITED TIME USE FROM		LIMITED TIME USE TO	
elect to sign				AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING -- LIN. FT.
				VALUATION			

PLUMBING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	7.25			WATER HEATER	9.00	
	BATH TUB	7.25			GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	SHOWER	7.25			OUTLET OVER 5	1.00	
	LAVATORY	7.25			VACUUM BREAKER	9.00	
	SINK	7.25			INSTALL OR ALTER WATER SYSTEM	3.75	
	DISHWASHER	7.25			INSTALL OR ALTER WASTE OR VENTS	3.75	
	LAUNDRY TUB	7.25			HOUSE SEWER	54.00	
	CLOTHES WASHER	7.25			CONNECT ADD. H.S.	3.75	
	FLOOR DRAIN	7.25			P-TRAP POOL DRN.	7.25	
	FLOOR SINK	7.25			SEWER CAP	7.25	
	MISC.	7.25					
	MISC.	7.25			PLUMBING PERMIT	18.00	
	MISC.	7.25			PLUMBING TOTAL $		

MECHANICAL / HEATING PERMIT

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	11.00	
	OVER 100M	13.25	
	DUCT ALT. or ADD	8.00	
	KITCHEN - BATH VENT	5.50	
	COMM. HOOD	11.00	
	A.C. UNIT	11.00	
	WALL FURNACE / F.P.	11.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5 COST EACH	1.00	
	SMOKE / FIRE DAMPER	8.00	
	MISC.	11.00	
	HEATING PERMIT	18.00	
	HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS / SWITCHES / SMOKE DETECTORS	1 to 20		1.00	
	OVER 20		.60	
LIGHTING FIXTURES			1.00	
RANGE - OVEN - GARBAGE DISPOSAL			3.75	
DISHWASHER - KITCHEN FAN			3.75	
CLOTHES WASHER/DRYER			3.75	
WATER HTR. POOL HTR. SPACE HTR.			3.75	
NEW RESIDENTIAL OUTLETS			.042 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.75	
	1 - 10		9.00	
	10 - 50		18.00	
MISC. ARC FAULT		1	13.25	13.25
Supply elect to new sign				

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		22.50	
	SERVICE 600V OVER 200A		45.00	
	SERVICE 600V OVER 400A		90.00	
PANEL BOARD			13.25	
TRANSFORMERS			13.25	
SWIM POOL/SPA			36.00	
TIME CLOCK			3.75	
SIGNS	NO. TRANS. / BALLASTS / INVERTERS		18.00	
	NO. LAMPS / LETTERS		3.75	
TEMPORARY POWER POLES			18.00	
SUPPLEMENTARY PERMIT			8.00	
PERMIT FEE		1	18.00	18
			TOTAL FEE $	31.25

FEE SUMMARY

BUILDING PLAN CHECK	3620-11		
ENERGY PLAN CHECK			
MECHANICAL/PLUMBING PLAN CHK.			
ELECTRICAL PLAN CHECK			
ADMINISTRATIVE FEE			

BUILDING PERMIT FEE	3200-11	
S. B. 1374 (1 or 2)	2001-11	
PLUMBING PERMIT	3201-11	
HEATING PERMIT	3201-11	
ELECTRICAL PERMIT	3202-11	31.25
TOTAL AMOUNT DUE $		31.25

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended. I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

PERMIT NUMBER 86952

Signature of Permitee Dave Krueger Building Dept. OKNA 10-18-06

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 Building Permit Application rev. 03-06 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C10 License No: 385577 Exp. Date: 11/30/07

Signature Dave R Juergens

TO ALL PERMITTEES: *In accordance with AB 443, the Workers' Compensation Insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.*

WORKERS' COMPENSATION INSURANCE DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☒ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier _____

Policy Number On file

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 10/19/06 Signature Dave R Juergens

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS 10/13/06

5.20

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 Plaza Drive		CONTRACTOR Ace Sign Systems Inc	
LOT	TRACT	MAILING ADDRESS 8 Chaste	
PROPOSED USE		CITY Irvine	STATE ZIP
NEW / ADD X / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. 949 552-4060	STATE LIC. NO. C45000
OWNER RREEF	TEL.	STATE LIC. CLASS C45	CITY BUS. LIC.
MAILING ADDRESS 575 Anton Suite 550		ARCHITECT OR ENGINEER	
CITY Costa Mesa	STATE CA ZIP 92626	STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION Installation of tenant			PLANNING DEPT. APPROVAL		ENGINEERING DEPT. APPROVAL	LOT SIZE
Wall sign to read "Touro University International" (Illuminated) (138.46 sq.ft)				LIMITED TIME USE FROM		LIMITED TIME USE TO	
				AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING – LIN. FT.
				VALUATION 20,000			

5665 Plaza

PLUMBING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	7.25			WATER HEATER	9.00	
	BATH TUB	7.25			GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	SHOWER	7.25			OUTLET OVER 5	1.00	
	LAVATORY	7.25			VACUUM BREAKER	9.00	
	SINK	7.25			INSTALL OR ALTER WATER SYSTEM	3.75	
	DISHWASHER	7.25			INSTALL OR ALTER WASTE OR VENTS	3.75	
	LAUNDRY TUB	7.25			HOUSE SEWER	54.00	
	CLOTHES WASHER	7.25			CONNECT ADD. H.S.	3.75	
	FLOOR DRAIN	7.25			P-TRAP POOL DRN.	7.25	
	FLOOR SINK	7.25			SEWER CAP	7.25	
	MISC.	7.25					
	MISC.	7.25			PLUMBING PERMIT	18.00	
	MISC.	7.25			PLUMBING TOTAL $		

MECHANICAL / HEATING PERMIT

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	11.00	
	OVER 100M	13.25	
	DUCT ALT. or ADD	8.00	
	KITCHEN - BATH VENT	5.50	
	COMM. HOOD	11.00	
	A.C. UNIT	11.00	
	WALL FURNACE / F.P.	11.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5 COST EACH	1.00	
	SMOKE / FIRE DAMPER	8.00	
	MISC.	11.00	
	HEATING PERMIT	18.00	
	HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS / SWITCHES / SMOKE DETECTORS	1 to 20		1.00	
	OVER 20		.60	
LIGHTING FIXTURES			1.00	
RANGE - OVEN - GARBAGE DISPOSAL			3.75	
DISHWASHER - KITCHEN FAN			3.75	
CLOTHES WASHER/DRYER			3.75	
WATER HTR. POOL HTR. SPACE HTR.			3.75	
NEW RESIDENTIAL OUTLETS			.042 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.75	
	1 - 10		9.00	
	10 - 50		18.00	
MISC. / ARC FAULT			13.25	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		22.50	
	SERVICE 600V OVER 200A		45.00	
	SERVICE 600V OVER 400A		90.00	
PANEL BOARD			13.25	
TRANSFORMERS			13.25	
SWIM POOL/SPA			36.00	
TIME CLOCK			3.75	
SIGNS	NO. TRANS. / BALLASTS / INVERTERS	8	18.00	144 –
	NO. LAMPS / LETTERS	29	3.75	108.75
TEMPORARY POWER POLES			18.00	
SUPPLEMENTARY PERMIT			6.00	
PERMIT FEE		1	18.00	18 –
			TOTAL FEE $	270.75

FEE SUMMARY

BUILDING PLAN CHECK	3620-11	164.13	BUILDING PERMIT FEE	3200-11	252.50
ENERGY PLAN CHECK			S. B. 1374 (1 or 2)	2001-11	4.20
MECHANICAL/PLUMBING PLAN CHK.			PLUMBING PERMIT	3201-11	
ELECTRICAL PLAN CHECK			HEATING PERMIT	3201-11	
ADMINISTRATIVE FEE		35.00	ELECTRICAL PERMIT	3202-11	270.75
			TOTAL AMOUNT DUE $		562.45

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended. I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 86735

Signature of Permitee [signature] Building Dept. [signature] 9-1-06

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 Building Permit Application rev. 03-08 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C45 License No. C450600 Exp. Date: 1/31/08

Signature Dusan Zamjacnik

***TO ALL PERMITTEES:** In accordance with AB 443, the Workers' Compensation Insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.*

WORKERS' COMPENSATION INSURANCE DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☒ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier State Fund

Policy Number 0794117

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION. DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 9-1-06 Signature Dusan Zamjacnik

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P.	
Setbacks	
Soil Work	
Uffer	
Footings	
Grout/Steel	
Gr. Work	
UG Elect	
Slab	
Joists	
Pre-roof	
Sheath	
In Prog.	
R. Plbg.	
Ducts	
R.Elect.	
Conduit	
Framing	
Sewer	
Insulation	
Drywall	
Ext. Lath	
Sc. Coat	
T-Bar	
Gas Test	

8623 F FINALS 11/16/06

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA DR. SUITE 120		CONTRACTOR ADVANCE FIRE PROTECTION	
LOT	TRACT	MAILING ADDRESS 1451 W. LAMBERT RD.	
PROPOSED USE OFFICE		CITY LA HABRA	STATE CA ZIP 90631
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. (562) 691-0918	STATE LIC. NO. 259936
OWNER	TEL.	STATE LIC. CLASS C-16	CITY BUS. LIC.
MAILING ADDRESS		ARCHITECT OR ENGINEER	
CITY	STATE ZIP	STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE / GROUP / TYPE CONST. / DATE		FRONT YARD / RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD	
ZONE / JOB DESCRIPTION		PLANNING DEPT. APPROVAL / ENGINEERING DEPT. APPROVAL / LOT SIZE	
FIRE SPRINKLER T. I.		LIMITED TIME USE FROM / LIMITED TIME USE TO	
		AREA SQ. FT. / NO. STORIES / ROOF COVERING / FENCING -- LIN. FT.	
		VALUATION 3120-	

142188

PLUMBING PERMIT

NO.	ITEM		AMOUNT
	WATER CLOSET	7.25	
	BATH TUB	7.25	
	SHOWER	7.25	
	LAVATORY	7.25	
	SINK	7.25	
	DISHWASHER	7.25	
	LAUNDRY TUB	7.25	
	CLOTHES WASHER	7.25	
	FLOOR DRAIN	7.25	
	FLOOR SINK	7.25	
	MISC.	7.25	
	MISC.	7.25	
	MISC.	7.25	

NO.	ITEM		AMOUNT
	WATER HEATER	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5	1.00	
	VACUUM BREAKER	9.00	
	INSTALL OR ALTER WATER SYSTEM	3.75	
	INSTALL OR ALTER WASTE OR VENTS	3.75	
	HOUSE SEWER	54.00	
	CONNECT ADD. H.S.	3.75	
	P-TRAP POOL DRN.	7.25	
	SEWER CAP	7.25	
	PLUMBING PERMIT	18.00	
	PLUMBING TOTAL $		

MECHANICAL / HEATING PERMIT

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	11.00	
	OVER 100M	13.25	
	DUCT ALT. or ADD	8.00	
	KITCHEN - BATH VENT	5.50	
	COMM. HOOD	11.00	
	A.C. UNIT	11.00	
	WALL FURNACE / F.P.	11.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5 COST EACH	1.00	
	SMOKE / FIRE DAMPER	8.00	
	MISC.	11.00	
	HEATING PERMIT	18.00	
	HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS / SWITCHES / SMOKE DETECTORS	1 to 20		1.00	
	OVER 20		.60	
LIGHTING FIXTURES			1.00	
RANGE - OVEN - GARBAGE DISPOSAL			3.75	
DISHWASHER - KITCHEN FAN			3.75	
CLOTHES WASHER/DRYER			3.75	
WATER HTR. POOL HTR. SPACE HTR.			3.75	
NEW RESIDENTIAL OUTLETS			.042 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.75	
	1 - 10		9.00	
	10 - 50		18.00	
MISC. / ARC FAULT			13.25	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		22.50	
	SERVICE 600V OVER 200A		45.00	
	SERVICE 600V OVER 400A		90.00	
PANEL BOARD			13.25	
TRANSFORMERS			13.25	
SWIM POOL/SPA			36.00	
TIME CLOCK			3.75	
SIGNS	NO. TRANS. / BALLASTS / INVERTERS		18.00	
	NO. LAMPS / LETTERS		3.75	
TEMPORARY POWER POLES			18.00	
SUPPLEMENTARY PERMIT			6.00	
PERMIT FEE			18.00	
			TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK	3620-11		
ENERGY PLAN CHECK			
MECHANICAL/PLUMBING PLAN CHK.			
ELECTRICAL PLAN CHECK			
ADMINISTRATIVE FEE		35.00	

BUILDING PERMIT FEE	3200-11	76.50
S. B. 1374 (1 or 2)	2001-11	1.66
PLUMBING PERMIT	3201-11	
HEATING PERMIT	3201-11	
ELECTRICAL PERMIT	3202-11	
TOTAL AMOUNT DUE $		77.16

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended. I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 86782

Signature of Permitee _____ Building Dept. _____ 4-12-06

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 Building Permit Application rev. 03-06 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C-16 License No. 259936 Exp. Date: 4/30/07

Signature _____

TO ALL PERMITTEES: In accordance with AB ~~749, the~~ Workers' Compensation Insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.

WORKERS' COMPENSATION INSURANCE DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier AMERICAN GUARNTEE & LIABILITY

Policy Number WC376404 02

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: 9/12/06 Applicant: CHARLIE TSONG

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section_____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 9/12/06 Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P.	
Setbacks	
Soil Work	
Uffer	
Footings	
Grout/Steel	
Gr. Work	
UG Elect	
Slab	
Joists	
Pre-roof	
Sheath	
In Prog.	
R. Plbg.	
Ducts	
R.Elect.	
Conduit	
Framing	
Sewer	
Insulation	
Drywall	
Ext. Lath	
Sc. Coat	
T-Bar	
Gas Test	

86782 FINALS JWats 10/17/06

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS	5665 PLAZA DR					CONTRACTOR	ROMEX COMMUNICATIONS INC		
LOT		TRACT				MAILING ADDRESS	26752 OAK AVE HC		
PROPOSED USE						CITY	CANYON COUNTRY	STATE CA	ZIP 91351
NEW	ADD	ALTER	REPAIR	DEMOLISH	SPECIAL	TEL.	661-251-9800	STATE LIC. NO.	766852
OWNER	US Merchants		TEL.			STATE LIC. CLASS	C7	CITY BUS. LIC.	
MAILING ADDRESS						ARCHITECT OR ENGINEER			
CITY		STATE	ZIP			STATE LIC. NO.		TEL.	

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL		ENGINEERING DEPT. APPROVAL	LOT SIZE
low voltage data / cabling				LIMITED TIME USE FROM		LIMITED TIME USE TO	
				AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING -- LIN. FT.
				VALUATION			

5665 Plaza

PLUMBING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	7.25			WATER HEATER	9.00	
	BATH TUB	7.25			GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	SHOWER	7.25			OUTLET OVER 5	1.00	
	LAVATORY	7.25			VACUUM BREAKER	9.00	
	SINK	7.25			INSTALL OR ALTER WATER SYSTEM	3.75	
	DISHWASHER	7.25			INSTALL OR ALTER WASTE OR VENTS	3.75	
	LAUNDRY TUB	7.25			HOUSE SEWER	54.00	
	CLOTHES WASHER	7.25			CONNECT ADD. H.S.	3.75	
	FLOOR DRAIN	7.25			P-TRAP POOL DRN.	7.25	
	FLOOR SINK	7.25			SEWER CAP	7.25	
	MISC.	7.25					
	MISC.	7.25			PLUMBING PERMIT	18.00	
	MISC.	7.25			PLUMBING TOTAL $		

MECHANICAL / HEATING PERMIT

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	11.00	
	OVER 100M	13.25	
	DUCT ALT. or ADD	8.00	
	KITCHEN - BATH VENT	5.50	
	COMM. HOOD	11.00	
	A.C. UNIT	11.00	
	WALL FURNACE / F.P.	11.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5 COST EACH	1.00	
	SMOKE / FIRE DAMPER	8.00	
	MISC.	11.00	
	HEATING PERMIT	18.00	
	HEATING TOTAL $		

Plaza

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS / SWITCHES / SMOKE DETECTORS	1 to 20		1.00		EACH METER	SERVICE 0-600V NOT OVER 200A		22.50	
	OVER 20		.60			SERVICE 600V OVER 200A		45.00	
LIGHTING FIXTURES			1.00			SERVICE 600V OVER 400A		90.00	
RANGE - OVEN - GARBAGE DISPOSAL			3.75		PANEL BOARD			13.25	
DISHWASHER - KITCHEN FAN			3.75		TRANSFORMERS			13.25	
CLOTHES WASHER/DRYER			3.75		SWIM POOL/SPA			36.00	
WATER HTR. POOL HTR. SPACE HTR.			3.75		TIME CLOCK			3.75	
NEW RESIDENTIAL OUTLETS			.042 Sq./Ft		SIGNS	NO. TRANS. / BALLASTS / INVERTERS		18.00	
MOTORS OVER INC. HP	0 - 1		3.75			NO. LAMPS / LETTERS		3.75	
	1 - 10		9.00		TEMPORARY POWER POLES			18.00	
	10 - 50		18.00		SUPPLEMENTARY PERMIT			6.00	
MISC. / ARC FAULT		1	13.25	13.25	PERMIT FEE		1	18.00	18.00
								TOTAL FEE $	31.25

FEE SUMMARY

BUILDING PLAN CHECK 3620-11		BUILDING PERMIT FEE 3200-11	
ENERGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	
MECHANICAL/PLUMBING PLAN CHK.		PLUMBING PERMIT 3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT 3201-11	
ADMINISTRATIVE FEE		ELECTRICAL PERMIT 3202-11	31.25
		TOTAL AMOUNT DUE $	31.25

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended. I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

PERMIT NUMBER 86840

Signature of Permitee [signature] Building Dept. [signature] 9-25-06

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 Building Permit Application rev. 03-06 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C7 License No. 766852 Exp. Date: 9/07

Signature _____

TO ALL PERMITTEES: *In accordance with AB 443, the Workers' Compensation Insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.*

WORKERS' COMPENSATION INSURANCE DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☑ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ *I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code,* for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier _____

Policy Number _____

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: 8/15/06 Applicant: Ron Anderson

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: *I hereby affirm that I am exempt from the Contractor's License Law for the* following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ *I, as owner of the property or my employees with wages as their sole compensation, will do the work, and* the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project *(Section 7044, Business and Professions Code:* The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection purposes.

Date: _____ Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

86840 FINALS 10/10/06

39 + 50 (30)

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue, Cypress, CA 90630 Phone (714) 229-6738

JOB ADDRESS 5665 Plaza Drive # 120		CONTRACTOR Architect: SAA TRI CITY BUILDERS	
LOT	TRACT	MAILING ADDRESS 3300 IRVINE AVE Suite 2294-E BATAVIA	
PROPOSED USE B		CITY NEWPORT BEACH STATE CA. 92660 92865	
NEW / ADD / ALTER 5400 / REPAIR / DEMOLISH / SPECIAL		TEL. 949. 724-8958	STATE LIC. NO.
OWNER RREEF TEL.		STATE LIC. CLASS C10 B	CITY BUS. LIC.
MAILING ADDRESS 4041 MacArthur Blvd. #575		ARCHITECT OR ENGINEER AIA DENNIS VALENCIA	
CITY NEWPORT BEACH STATE CA ZIP 92660		STATE LIC. NO. 2137	TEL.

BUILDING PERMIT 578337

FIRE ZONE / GROUP B / TYPE CONST. II / DATE 6/19/06		FRONT YARD / RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD	
ZONE / JOB DESCRIPTION: Commercial T.I. New metal studs with 5/8 type 'X' GYP. Board.		PLANNING DEPT. APPROVAL QC	ENGINEERING DEPT. APPROVAL K.D. / LOT SIZE
		LIMITED TIME USE FROM / LIMITED TIME USE TO	
		AREA SQ. FT. 5400 / NO. STORIES / ROOF COVERING / FENCING – LIN. FT.	
		VALUATION 150,000.00	

5665 Plaza

PLUMBING PERMIT

NO.	ITEM		AMOUNT
	WATER CLOSET	7.25	
	BATH TUB	7.25	
	SHOWER	7.25	
	LAVATORY	7.25	
1	SINK	7.25	7.25
	DISHWASHER	7.25	
	LAUNDRY TUB	7.25	
	CLOTHES WASHER	7.25	
	FLOOR DRAIN	7.25	
	FLOOR SINK	7.25	
	MISC.	7.25	
	MISC.	7.25	
	MISC.	7.25	

NO.	ITEM		AMOUNT
	WATER HEATER	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5	1.00	
	VACUUM BREAKER	9.00	
1	INSTALL OR ALTER WATER SYSTEM	3.75	3.75
	INSTALL OR ALTER WASTE OR VENTS	3.75	
	HOUSE SEWER	54.00	
	CONNECT ADD. H.S.	3.75	
	P-TRAP POOL DRN.	7.25	
	SEWER CAP	7.25	
1	PLUMBING PERMIT	18.00	18-
	PLUMBING TOTAL $		29-

MECHANICAL / HEATING PERMIT

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	11.00	
	OVER 100M	13.25	
1	DUCT ALT. or ADD	8.00	8-
	KITCHEN - BATH VENT	5.50	
	COMM. HOOD	11.00	
	A.C. UNIT	11.00	
	WALL FURNACE / F.P.	11.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5 COST EACH	1.00	
	SMOKE / FIRE DAMPER	8.00	
	MISC.	11.00	
1	HEATING PERMIT	18.00	18-
	HEATING TOTAL $		26-

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS / SWITCHES / SMOKE DETECTORS	1 to 20	20	1.00	20-
	OVER 20	67	.60	4.20
LIGHTING FIXTURES		68.	1.00	68-
RANGE - OVEN - GARBAGE DISPOSAL			3.75	
DISHWASHER - KITCHEN FAN			3.75	
CLOTHES WASHER/DRYER			3.75	
WATER HTR. POOL HTR. SPACE HTR.			3.75	
NEW RESIDENTIAL OUTLETS			.042 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.75	
	1 - 10		9.00	
	10 - 50		18.00	
MISC. / ARC FAULT			13.25	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		22.50	
	SERVICE 600V OVER 200A		45.00	
	SERVICE 600V OVER 400A		90.00	
PANEL BOARD			13.25	
TRANSFORMERS			13.25	
SWIM POOL/SPA			36.00	
TIME CLOCK			3.75	
SIGNS	NO. TRANS. / BALLASTS / INVERTERS		18.00	
	NO. LAMPS / LETTERS		3.75	
TEMPORARY POWER POLES			18.00	
SUPPLEMENTARY PERMIT			6.00	
PERMIT FEE		1	18.00	18-
			TOTAL FEE $	110.20

FEE SUMMARY

BUILDING PLAN CHECK	3620-11	646.75	BUILDING PERMIT FEE	3200-11	995.00
ENERGY PLAN CHECK		248.75	S. B. 1374 (1 or 2)	2001-11	31.50
MECHANICAL/PLUMBING PLAN CHK.		149.25	PLUMBING PERMIT	3201-11	29.00
ELECTRICAL PLAN CHECK		149.25	HEATING PERMIT	3201-11	26-
ADMINISTRATIVE FEE	3510-11	35.00	ELECTRICAL PERMIT	3202-11	110.20
		1195.00	TOTAL AMOUNT DUE $		226.70

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended. I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

Signature of Permitee [signature] Building Dept. [signature] 8-28-06

PERMIT NUMBER 86695

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

8-1 Building Permit Application rev. 03-06 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: GC License No. 578337 Exp. Date: 9-30-07

Signature Gordon Hodgson

TO ALL PERMITTEES: In accordance with AB 443, the Workers' Compensation Insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.

WORKERS' COMPENSATION INSURANCE DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier Wasserman and Associates

Policy Number 713 8693-05

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason [Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) or Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).]

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 5-26-06 Signature Gordon Hodgson

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect. JWA 9-18-06
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. JWA 8/30/06
Ducts
R. Elect.
Conduit
Framing _____
Sewer _____
Insulation JWA 9/5/06
Drywall JWA 9/7/06
Ext. Lath _____
Sc. Coat _____
T-Bar JWA 9/26/06
Gas Test _____

8695 FINALS JWA 10/17/06

Prerun ducts JWA 8/30/06

1.31

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA DRIVE		CONTRACTOR ISC Electronic Systems Inc.	
LOT	TRACT	MAILING ADDRESS 15901 Hawthorne Blvd. #480	
PROPOSED USE T		CITY Lawndale	STATE CA ZIP 90260
NEW / ADD ✓ / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. 310/793-9777	STATE LIC. NO. 635904
OWNER	TEL.	STATE LIC. CLASS C10	CITY BUS. LIC.
MAILING ADDRESS		ARCHITECT OR ENGINEER	
CITY	STATE ZIP	STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION Install Fire/Life Safety Devices @ VS MERCHANTS			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL	LOT SIZE
				LIMITED TIME USE FROM	LIMITED TIME USE TO	
				AREA SQ. FT.	NO. STORIES	ROOF COVERING / FENCING – LIN. FT.
				VALUATION 8000		

1335609

PLUMBING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	7.25			WATER HEATER	9.00	
	BATH TUB	7.25			GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	SHOWER	7.25			OUTLET OVER 5	1.00	
	LAVATORY	7.25			VACUUM BREAKER	9.00	
	SINK	7.25			INSTALL OR ALTER WATER SYSTEM	3.75	
	DISHWASHER	7.25			INSTALL OR ALTER WASTE OR VENTS	3.75	
	LAUNDRY TUB	7.25			HOUSE SEWER	64.00	
	CLOTHES WASHER	7.25			CONNECT ADD. H.S.	3.75	
	FLOOR DRAIN	7.25			P-TRAP POOL DRN.	7.25	
	FLOOR SINK	7.25			SEWER CAP	7.25	
	MISC.	7.25					
	MISC.	7.25			PLUMBING PERMIT	18.00	
	MISC.	7.25			PLUMBING TOTAL $		

MECHANICAL / HEATING PERMIT

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	11.00	
	OVER 100M	13.25	
	DUCT, ALT. or ADD	8.00	
	KITCHEN - BATH VENT	5.50	
	COMM. HOOD	11.00	
	A.C. UNIT	11.00	
	WALL FURNACE / F.P.	11.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5 COST EACH	1.00	
	SMOKE / FIRE DAMPER	8.00	
	MISC.	11.00	
	HEATING PERMIT	18.00	
	HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS / SWITCHES / SMOKE DETECTORS	1 to 20		1.00	
	OVER 20		.60	
LIGHTING FIXTURES			1.00	
RANGE - OVEN - GARBAGE DISPOSAL			3.75	
DISHWASHER - KITCHEN FAN			3.75	
CLOTHES WASHER/DRYER			3.75	
WATER HTR. POOL HTR. SPACE HTR.			3.75	
NEW RESIDENTIAL OUTLETS			.042 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.75	
	1 - 10		9.00	
	10 - 50		18.00	
MISC. / ARC FAULT			13.25	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		22.50	
	SERVICE 600V OVER 200A		46.00	
	SERVICE 600V OVER 400A		90.00	
PANEL BOARD			13.25	
TRANSFORMERS			13.25	
SWIM POOL/SPA			36.00	
TIME CLOCK			3.75	
SIGNS	NO. TRANS. / BALLASTS / INVERTERS		18.00	
	NO. LAMPS / LETTERS		3.75	
TEMPORARY POWER POLES			18.00	
SUPPLEMENTARY PERMIT			6.00	
PERMIT FEE			18.00	
			TOTAL FEE $	

FEE SUMMARY

fees adjustment

BUILDING PLAN CHECK 3620-11		BUILDING PERMIT FEE 3200-11	131.50
ENERGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	1.37
MECHANICAL/PLUMBING PLAN CHK.		PLUMBING PERMIT 3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT 3201-11	
ADMINISTRATIVE FEE	35.00	ELECTRICAL PERMIT 3202-11	
		TOTAL AMOUNT DUE $	

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended. I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

PERMIT NUMBER 86863

Signature of Permitee M. Nguyen Building Dept. Osuna 9-28-06

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 Building Permit Application rev. 03-06 **Disbursement:** White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class: C10 License No. 838904 Exp. Date: 09/30/07

Signature: M. Mg

TO ALL PERMITTEES: *In accordance with AB 443, the Workers' Compensation Insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.*

WORKERS' COMPENSATION INSURANCE DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier State Fund Comp.

Policy Number 1724573

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 09/28/06 Signature M. Mg

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P.	
Setbacks	
Soil Work	
Uffer	
Footings	
Grout/Steel	
Gr. Work	2/1
UG Elect	
Slab	
Joists	
Pre-roof	
Sheath	
In Prog.	
R. Plbg.	
Ducts	
R.Elect.	
Conduit	
Framing	
Sewer	
Insulation	
Drywall	
Ext. Lath	
Sc. Coat	
T-Bar	
Gas Test	

86863 FINALS 10/17/06

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS	5665 PLAZA DR #100	CONTRACTOR	HARLINE ENTERPRISES
LOT	TRACT	MAILING ADDRESS	3210 S. SUSAN ST
PROPOSED USE		CITY	SANTA ANA STATE CA ZIP 92704
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL.	714 751 0274 STATE LIC. NO. 594228
OWNER	RREEF TEL.	STATE LIC. CLASS	CITY BUS. LIC.
MAILING ADDRESS		ARCHITECT OR ENGINEER	
CITY	STATE ZIP	STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE
ZONE	JOB DESCRIPTION		
	plbg for TI		

FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD	
PLANNING DEPT. APPROVAL		ENGINEERING DEPT. APPROVAL		LOT SIZE
LIMITED TIME USE FROM		LIMITED TIME USE TO		
AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING -- LIN. FT.	
VALUATION				

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT
0	WATER CLOSET	6.00	
0	BATH TUB	6.00	
0	SHOWER	6.00	
0	LAVATORY	6.00	
1	SINK	6.00	6-
1	DISHWASHER	6.00	6-
0	LAUNDRY TUB	6.00	
	CLOTHES WASHER	6.00	
	FLOOR DRAIN	6.00	
	FLOOR SINK	6.00	
	MISC.	6.00	
	MISC.	6.00	
	MISC.	6.00	

NO.	ITEM		AMOUNT
0	WATER HEATER	7.50	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5	.75	
	VACUUM BREAKER	7.50	
1	INSTALL OR ALTER WATER SYSTEM	3.00	3-
1	INSTALL OR ALTER WASTE OR VENTS	3.00	3-
	HOUSE SEWER	45.00	
	CONNECT ADD. H.S.	3.00	
	P-TRAP POOL DRN.	6.00	
	SEWER CAP	6.00	
	PLUMBING PERMIT	15.00	15-
	PLUMBING TOTAL $		33-
	PLUMBING/HEATING TOTAL $		

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	9.00	
	OVER 100M	11.00	
	DUCT ALT. or ADD	6.50	
	KITCHEN-BATH VENT	4.50	
	COMM. HOOD	6.50	
	A.C. UNIT	9.00	
	WALL FURNACE	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5 COST EACH	.75	
	EVAP 1 - 10M	6.50	
	EVAP OVER 10M	11.00	
	HEATING PERMIT	15.00	
	HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75	
	OVER 20		.45	
LIGHTING FIXTURES			.75	
RANGE-OVEN-GAR. DISP.			3.00	
DISHWASHER-KIT. FAN			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.00	
	1 - 10		7.50	
	10 - 50		15.00	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	SERVICE 600V OVER 200A		37.50	
PANEL BOARD			11.00	
SWIM POOL/SPA			30.00	
TIME CLOCK			3.00	
SIGNS	NO. TRANS OR BALS.		15.00	
	NO. LAMPS		3.00	
TEMP. POWER POLES			15.00	
ADDITIONAL SUPPORT POLES			7.50	
MISC.			11.00	
SUPPLEMENTARY PERMIT			4.50	
PERMIT FEE			15.00	
			TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3820-11		BUILDING PERMIT FEE	3200-11	
ENERGY PLAN CHECK		S. B. 1374 (1 or 2)	2001-11	
MECHANICAL/PLUMBING PLAN CHK.	20-	PLUMBING PERMIT	3201-11	33-
ELECTRICAL PLAN CHECK	1-	HEATING PERMIT	3201-11	
ADMINISTRATIVE FEE	1-	ELECTRICAL PERMIT	3202-11	
	99	TOTAL AMOUNT DUE		33-

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

Signature of Permitee _____ Building Dept. Otsuka 3-13-03

PERMIT NUMBER 80587

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

03/13/03	
0 0 3 1 3 0	

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: B License No. 554228 Exp. Date: 7-31-04

Signature _____

TO ALL PERMITTEES: In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier STATE FOND

Policy Number 046-02

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 3-3-03 Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

80537 FINALS 4/15/03

1.96

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA DR. CYPRESS, CA. 90630				CONTRACTOR SIMPLEX GRINNELL	
LOT	TRACT			MAILING ADDRESS 1701 W. SEQUOIA AVE.	
PROPOSED USE				CITY ORANGE STATE CA ZIP 92868	
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL				TEL (714) 870-1010	STATE LIC. NO. 902591
OWNER	TEL.			STATE LIC. CLASS C-10	CITY BUS. LIC.
MAILING ADDRESS				ARCHITECT OR ENGINEER	
CITY	STATE	ZIP		STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION Tenant Improvement			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL	LOT SIZE
				LIMITED TIME USE FROM		LIMITED TIME USE TO
Alarm	Suite 100			AREA SQ. FT.	NO. STORIES	ROOF COVERING / FENCING -- LIN. FT.
				VALUATION $ 7,150.00		

5665 Plaza

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	8.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	8.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	8.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	8.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	8.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	8.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	8.00	
	LAUNDRY TUB	8.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	8.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	8.00			P-TRAP POOL DRN.	8.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	8.00			SEWER CAP	8.00			EVAP 1 - 10M	6.50	
	MISC.	8.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	8.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	8.00			PLUMBING/HEATING TOTAL $				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20		.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft		TEMP. POWER POLES			15.00	
MOTORS OVER INC. HP	0 - 1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1 - 10		7.50		MISC.			11.00	
	10 - 50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
					TOTAL FEE $				

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	64.35	BUILDING PERMIT FEE	3200-11	99.00
ENERGY PLAN CHECK		S. B. 1374 (1 or 2)	2001-11	1.50
MECHANICAL/PLUMBING PLAN CHK.		PLUMBING PERMIT	3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT	3201-11	
ADMINISTRATIVE FEE		ELECTRICAL PERMIT	3202-11	
		TOTAL AMOUNT DUE		100.50

3708-11-999-99 6659 $64.35 PD 03/14/03
3107-11-999-99 6936 $1.36 PD 03/31/03
3200-11-999-99 $99.00
2001-11-999-99 $1.50

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

Signature of Permitee _____ Building Dept. _____ 3-31-03

PERMIT NUMBER 006805

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

625.35 PD 03/14/03	40.00 03/31/03
510.00	1.36
51.00	99.00
64.35	1.50
	42.36 PD

B-1 rev. 5-98 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class C-10 License No. 802591 Exp. Date: 12-31-03

Signature _____

TO ALL PERMITTEES: In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☑ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier American Home Assurance Company

Policy Number RMWK 3322419

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 12-31-03 Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P: P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

80 E815 **FINALS** 4/15/03

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 Plaza Drive 1st fl	CONTRACTOR HVAC Mechanical Inc.
LOT / TRACT	MAILING ADDRESS 1550 S. Sunkist St #E
PROPOSED USE #100	CITY Anaheim STATE CA ZIP 92806
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL	TEL. 714-937-5305 STATE LIC. NO. 682002
OWNER TEL.	STATE LIC. CLASS C20 CITY BUS. LIC.
MAILING ADDRESS	ARCHITECT OR ENGINEER
CITY STATE ZIP	STATE LIC. NO. TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE
ZONE	JOB DESCRIPTION Tenant Imp. of an existing space		

FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL		LOT SIZE
LIMITED TIME USE FROM		LIMITED TIME USE TO	
AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING -- LIN. FT.
VALUATION			

5665 Plaza

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT
	WATER CLOSET	6.00	
	BATH TUB	6.00	
	SHOWER	6.00	
	LAVATORY	6.00	
	SINK	6.00	
	DISHWASHER	6.00	
	LAUNDRY TUB	6.00	
	CLOTHES WASHER	6.00	
	FLOOR DRAIN	6.00	
	FLOOR SINK	6.00	
	MISC.	6.00	
	MISC.	6.00	
	MISC.	6.00	

NO.	ITEM		AMOUNT
	WATER HEATER	7.50	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5	.75	
	VACUUM BREAKER	7.50	
	INSTALL OR ALTER WATER SYSTEM	3.00	
	INSTALL OR ALTER WASTE OR VENTS	3.00	
	HOUSE SEWER	45.00	
	CONNECT ADD. H.S.	3.00	
	P-TRAP POOL DRN.	6.00	
	SEWER CAP	6.00	
	PLUMBING PERMIT	15.00	
	PLUMBING TOTAL $		
	PLUMBING/HEATING TOTAL $		

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	9.00	
	OVER 100M	11.00	
15	DUCT ALT. or ADD	6.50	97.50
	KITCHEN-BATH VENT	4.50	
	COMM. HOOD	6.50	
	A.C. UNIT	9.00	
	WALL FURNACE	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5 COST EACH	.75	
	EVAP 1 - 10M	6.50	
	EVAP OVER 10M	11.00	
1	HEATING PERMIT	15.00	15.00
	HEATING TOTAL $		112.50

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75	
	OVER 20		.45	
LIGHTING FIXTURES			.75	
RANGE-OVEN-GAR. DISP.			3.00	
DISHWASHER-KIT. FAN			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.00	
	1 - 10		7.50	
	10 - 50		15.00	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	SERVICE 600V OVER 200A		37.50	
PANEL BOARD			11.00	
SWIM POOL/SPA			30.00	
TIME CLOCK			3.00	
SIGNS	NO. TRANS OR BALS.		15.00	
	NO. LAMPS		3.00	
TEMP. POWER POLES			15.00	
ADDITIONAL SUPPORT POLES			7.50	
MISC.			11.00	
SUPPLEMENTARY PERMIT			4.50	
PERMIT FEE			15.00	
			TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11		BUILDING PERMIT FEE 3200-11	
ENERGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	
MECHANICAL/PLUMBING PLAN CHK		PLUMBING PERMIT 3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT 3201-11	$112.50
ADMINISTRATIVE FEE		ELECTRICAL PERMIT 3202-11	
		TOTAL AMOUNT DUE	$112.50

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

PERMIT NUMBER 80572

Signature of Permittee X [signature] Building Dept. J Watson 3/11/03

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C8 License No. 682062 Exp. Date: 8/31/04

Signature: _____

TO ALL PERMITTEES: In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☒ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier State Fund

Policy Number 1625328 exp 5/1/03

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: 2/4 Applicant: John Anderson

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason: (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ *I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project* (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 2/4/03 Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

80572 FINALS JLA 4/15/03

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA DR. Suite 100		CONTRACTOR HARLINE ENTERPRISES	
LOT	TRACT	MAILING ADDRESS 3210 S. SUSAN	
PROPOSED USE		CITY SANTA ANA.	STATE CA ZIP 92704
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. 714 751-0274	STATE LIC. NO. 594228
OWNER RREEF	TEL.	STATE LIC. CLASS	CITY BUS. LIC.
MAILING ADDRESS		ARCHITECT OR ENGINEER	
CITY	STATE ZIP	STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL		ENGINEERING DEPT. APPROVAL	LOT SIZE
	elect for TI			LIMITED TIME USE FROM		LIMITED TIME USE TO	
				AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING -- LIN. FT.
				VALUATION			

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
0	WATER CLOSET	6.00		0	WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
0	BATH TUB	6.00		0	GAS SYSTEM (UP TO 5 OUTLET)	3.00	0		OVER 100M	11.00	
0	SHOWER	6.00		0	OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
0	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
16	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
1	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
0	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
0	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
0	FLOOR DRAIN	6.00			P-TRAP POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
0	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL $				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS: 165	1 to 20	20	.75	15.00	EACH METER	SERVICE 0-600V NOT OVER 200A	0	18.50	
	OVER 20	145	.45	65.25		SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES		160	.75	120.00	PANEL BOARD		0	11.00	
RANGE-OVEN-GAR. DISP.		0	3.00		SWIM POOL/SPA		0	30.00	
DISHWASHER-RIT. FAN		1	3.00	3—	TIME CLOCK		0	3.00	
CLOTHES DRYER AUTO WASHER		0	3.00		SIGNS	NO. TRANS OR BALS.	0	15.00	
WATER HTR. POOL HTR. SPACE HTR.		0	3.00			NO. LAMPS	0	3.00	
NEW RESIDENTIAL OUTLETS		0	.035 Sq./Ft		TEMP. POWER POLES		0	15.00	
MOTORS OVER INC. HP	0 - 1	0	3.00		ADDITIONAL SUPPORT POLES		0	7.50	
	1 - 10		7.50		MISC.		0	11.00	
	10 - 50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
								TOTAL FEE $	218.25

FEE SUMMARY

BUILDING PLAN CHECK 3620-11		BUILDING PERMIT FEE 3200-11	
ENERGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	
MECHANICAL/PLUMBING PLAN CHK.		PLUMBING PERMIT 3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT 3201-11	
ADMINISTRATIVE FEE		ELECTRICAL PERMIT 3202-11	218.25
		TOTAL AMOUNT DUE	218.25

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

Signature of Permitee X [signature] Building Dept. Otsuka 3-7-03

PERMIT NUMBER 80566

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: B License No. 594228 Exp. Date: _____

Signature _____

***TO ALL PERMITTEES:** In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier STATE FUND

Policy Number 046-02

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 03-07-07 Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS 8/15/07

85.54 x50 (34)

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA # 100		CONTRACTOR HARLINE ENTERPRISES	
LOT	TRACT	MAILING ADDRESS 3210 S. SUSAN	
PROPOSED USE		CITY SANTA ANA	STATE CA ZIP 92704
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. 714 751 0274	STATE LIC. NO. 594228
OWNER SHUWA INV.	TEL.	STATE LIC. CLASS B	CITY BUS. LIC.
MAILING ADDRESS		ARCHITECT OR ENGINEER	
CITY	STATE ZIP	STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL / LOT SIZE
	TI - OFFICE 1st Floor			LIMITED TIME USE FROM	LIMITED TIME USE TO
				AREA SQ. FT.	NO. STORIES / ROOF COVERING / FENCING - LIN. FT.
				VALUATION 329,000 *	

5665 Pl. #220

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
1	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
1	DISHWASHER	6.00		4	INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL $				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20	154	.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES		152	.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN		1	3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft		TEMP. POWER POLES			15.00	
MOTORS OVER INC. HP	0 - 1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1 - 10		7.50		MISC.			11.00	
	10 - 50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
								TOTAL FEE $	

* PER CONTRACT - ADD'L

FEE SUMMARY 2-26-03 ~~DOUBLE FEE~~

BUILDING PLAN CHECK	3620-11	391.30	BUILDING PERMIT FEE	3200-11	1441.00
ENERGY PLAN CHECK		150.50	S. B. 1374 (1 or 2)	2001-11	64.09
MECHANICAL/PLUMBING PLAN CHK.		90.30	PLUMBING PERMIT	3201-11	
ELECTRICAL PLAN CHECK		90.30	HEATING PERMIT	3201-11	
ADMINISTRATIVE FEE			ELECTRICAL PERMIT	3202-11	
		722.40	TOTAL AMOUNT DUE		$ 2,232.49

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

Signature of Permitee X [signature] Building Dept. R. MELAD 2/28/03

PERMIT NUMBER 80528

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: B License No. 594228 Exp. Date: 7-31-04

Signature [signature]

TO ALL PERMITTEES: In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: 5665 PLAZA DRIVE

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☑ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier STATE FUND

Policy Number 046

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: 2-28 Applicant: MIKE BAUERLEIN

Signature: [signature]

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 2-28 Signature [signature]

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☑ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☑ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME MIKE BAUERLEIN

☐ YES ☑ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☑ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent [signature]

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. JWats 3/17/03
Ducts _____
R.Elect. walls JWats 3/11/03
Conduit _____
Framing JWats 3/11/03
Sewer _____
Insulation JWats 3/14/03
Drywall JWats 3/17/03 JWats
Ext. Lath _____
Sc. Coat _____
T-Bar JWats 4/2/03
Gas Test _____

80528 FINALS JWats 4/15/03

3/14/03 partial drywall
North 2/3 JWats

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA DRIVE #100	CONTRACTOR TO BE DECIDED
LOT / TRACT	MAILING ADDRESS
PROPOSED USE T.I. OFFICE	CITY / STATE / ZIP
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL	TEL. / STATE LIC. NO.
OWNER SHUWA INVESTMENTS TEL. 213-624-5353	STATE LIC. CLASS / CITY BUS. LIC.
MAILING ADDRESS 555 S. FLOWER ST.	ARCHITECT OR ENGINEER
CITY LOS ANGELES STATE CA ZIP 90071	STATE LIC. NO. / TEL.

BUILDING PERMIT

CALL DAVID KELLER 949-724-8958

FIRE ZONE / GROUP B / TYPE CONST. II / DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD / REAR YARD
ZONE / JOB DESCRIPTION: T.I. - OFFICE	PLANNING DEPT. APPROVAL KW	ENGINEERING DEPT. APPROVAL KD	LOT SIZE
	LIMITED TIME USE FROM		LIMITED TIME USE TO
	AREA SQ. FT. 11932	NO. STORIES	ROOF COVERING / FENCING - LIN. FT.
	VALUATION 456,947		

PLUMBING/HEATING PERMIT

* 417,620.

NO.	ITEM		AMOUNT
	WATER CLOSET	6.00	
	BATH TUB	6.00	
	SHOWER	6.00	
1	LAVATORY	6.00	6.00
	SINK	6.00	
	DISHWASHER	6.00	
	LAUNDRY TUB	6.00	
	CLOTHES WASHER	6.00	
	FLOOR DRAIN	6.00	
	FLOOR SINK	6.00	
	MISC.	6.00	
	MISC.	6.00	
	MISC.	6.00	

NO.	ITEM		AMOUNT
	WATER HEATER	7.50	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5	.75	
	VACUUM BREAKER	7.50	
1	INSTALL OR ALTER WATER SYSTEM	3.00	3.00
1	INSTALL OR ALTER WASTE OR VENTS	3.00	3.00
	HOUSE SEWER	45.00	
	CONNECT ADD. H.S.	3.00	
	P-TRAP POOL DRN.	6.00	
	SEWER CAP	6.00	
1	PLUMBING PERMIT	15.00	15.00
	PLUMBING TOTAL $		
	PLUMBING/HEATING TOTAL $		

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	9.00	
	OVER 100M	11.00	
	DUCT ALT. or ADD	6.50	
	KITCHEN-BATH VENT	4.50	
	COMM. HOOD	6.50	
	A.C. UNIT	9.00	
	WALL FURNACE	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5 COST EACH	.75	
	EVAP 1 - 10M	6.50	
	EVAP OVER 10M	11.00	
	HEATING PERMIT	15.00	
	HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20	~~20~~ 20	.75	
	OVER 20	58	.45	
LIGHTING FIXTURES		151	.75	
RANGE-OVEN-GAR. DISP.			3.00	
DISHWASHER-KIT. FAN			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.00	
	1 - 10		7.50	
	10 - 50		15.00	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	SERVICE 600V OVER 200A		37.50	
PANEL BOARD			11.00	
SWIM POOL/SPA			30.00	
TIME CLOCK			3.00	
SIGNS	NO. TRANS OR BALS.		15.00	
	NO. LAMPS		3.00	
TEMP. POWER POLES			15.00	
ADDITIONAL SUPPORT POLES			7.50	
MISC.			11.00	
SUPPLEMENTARY PERMIT			4.50	
PERMIT FEE			15.00	
			TOTAL FEE $	

PLAN check only

* PC FEE ADJUSTED

FEE SUMMARY

	PLAN CHECK	ADD'L
BUILDING PLAN CHECK 3620-11	545.35	~~513.75~~
ENERGY PLAN CHECK	209.75	~~220.50~~
MECHANICAL/PLUMBING PLAN CHK.	125.85	~~132.30~~
ELECTRICAL PLAN CHECK	125.85	~~132.30~~
ADMINISTRATIVE FEE		
	1006.80	~~1096.80~~

BUILDING PERMIT FEE 3200-11	
S. B. 1374 (1 or 2) 2001-11	
PLUMBING PERMIT 3201-11	
HEATING PERMIT 3201-11	
ELECTRICAL PERMIT 3202-11	
TOTAL AMOUNT DUE	

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

PERMIT NUMBER

Signature of Permitee _____ Building Dept. _____

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 rev. 5-86

Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: _____ License No.: _____ Exp. Date: _____

Signature _____

***TO ALL PERMITTEES:** In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier _____

Policy Number _____

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

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☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: _____ Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING *CHECKLIST*. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630

JOB ADDRESS 5665 PLAZA DRIVE, STE 200		CONTRACTOR CWC, INC.	
LOT	TRACT	MAILING ADDRESS 22982 LA CADENA, STE 10	
PROPOSED USE		CITY LAGUNA HILLS	STATE CA ZIP 92653
NEW / ADD ✓ / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. (949) 770-5010	STATE LIC. NO. 658811
OWNER JACOBS ENGR.	TEL.	STATE LIC. CLASS	CITY BUS. LIC.
MAILING ADDRESS 5757 PLAZA DRIVE, STE 100		ARCHITECT OR ENGINEER	
CITY CYPRESS	STATE CA ZIP	STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE 10-3-05
ZONE	JOB DESCRIPTION		
	low voltage		

FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL		LOT SIZE
LIMITED TIME USE FROM		LIMITED TIME USE TO	
AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING -- LIN. FT.
VALUATION			

5665 Plaza Dr

PLUMBING/HEATING

NO.	ITEM		AMOUNT
	WATER CLOSET	6.00	
	BATH TUB	6.00	
	SHOWER	6.00	
	LAVATORY	6.00	
	SINK	6.00	
	DISHWASHER	6.00	
	LAUNDRY TUB	6.00	
	CLOTHES WASHER	6.00	
	FLOOR DRAIN	6.00	
	FLOOR SINK	6.00	
	MISC.	6.00	
	MISC.	6.00	
	MISC.	6.00	

NO.	ITEM		AMOUNT
	WATER HEATER	7.50	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5	.75	
	VACUUM BREAKER	7.50	
	INSTALL OR ALTER WATER SYSTEM	3.00	
	INSTALL OR ALTER WASTE OR VENTS	3.00	
	HOUSE SEWER	45.00	
	CONNECT ADD. H.S.	3.00	
	P-TRAP POOL DRN.	6.00	
	SEWER CAP	6.00	
	PLUMBING PERMIT	15.00	
	PLUMBING	$	
	PLUMBING/HEATING TOTAL		

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	9.00	
	OVER 100M	11.00	
	DUCT ALT. or ADD	6.50	
	KITCHEN-BATH VENT	4.50	
	COMM. HOOD	6.50	
	A.C. UNIT	9.00	
	WALL FURNACE	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5 COST EACH	.75	
	EVAP 1 - 10M	6.50	
	EVAP OVER 10M	11.00	
	HEATING	15.00	
	HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75	
	OVER 20		.45	
LIGHTING FIXTURES			.75	
RANGE-OVEN-GAR. DISP.			3.00	
DISHWASHER-KIT. FAN			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.00	
	1 - 10		7.50	
	10 - 50		15.00	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	SERVICE 600V OVER 200A		37.50	
PANEL BOARD			11.00	
SWIM POOL/SPA			30.00	
TIME CLOCK			3.00	
SIGNS	NO. TRANS OR BALS.		15.00	
	NO. LAMPS		3.00	
TEMP. POWER			15.00	
ADDITIONAL SUPPORT POLES			7.50	
MISC.* low voltage (56)			11.00	11.00
SUPPLEMENTARY PERMIT			4.50	
PERMIT FEE			15.00	15.00
			TOTAL FEE $	26.00

FEE SUMMARY

BUILDING PLAN CHECK 3620-11		BUILDING PERMIT FEE	
ENERGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	
MECHANICAL/PLUMBING PLAN		PLUMBING PERMIT	
ELECTRICAL PLAN CHECK		HEATING PERMIT	
ADMINISTRATIVE FEE		ELECTRICAL PERMIT 3202-11	26.00
		TOTAL AMOUNT	26.00

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

Signature of Permitee [signature] Building Dept. Otsuka 10-3-05

PERMIT NUMBER 85329

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT # ARE IMPRINTED BELOW.

	10/03/05 26.00
	26.00

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C-7 License No. 658811 Exp. Date: _____

Signature _____

***TO ALL PERMITTEES:** In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.*

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Job Address: _____

Permit No. _____ Issuance Date _____

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☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier GRANITE STATE INS. CO.

Policy Number WC 184-52-02

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

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☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 10-3-05 Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

85329 FINALS 11/28/05

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630

JOB ADDRESS 5665 PLAZA DR # 200 SUITE		CONTRACTOR ~~TO BE DETERMINED~~ Kool Coast.	
LOT	TRACT	MAILING ADDRESS Po Box 80216	
PROPOSED USE OFFICE		CITY SAN Diego	STATE CA ZIP 92138
NEW / ADD / ALTER X / REPAIR / DEMOLISH / SPECIAL		TEL. 760-535-1939	STATE LIC. NO. 184531
OWNER R.R.E.E.F. TEL 949 752-6242		STATE LIC. CLASS B C-8	CITY BUS. LIC.
MAILING ADDRESS 101 ENTERPRISE #150		ARCHITECT OR ENGINEER	
CITY ALISO VIEJO STATE CA ZIP		STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST II	DATE	FRONT YARD	RIGHT SIDE YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL
T. I. - OFFICE ADD INTERIOR WALLS & DOORS				LIMITED TIME USE FROM	LIMITED TIME USE TO
				AREA SQ. FT. 7,799	NO. STORIES 5
				VALUATION 272,965	

LEFT SIDE YARD | REAR YARD | LOT SIZE | ROOF COVERING | FENCING -- LIN. FT.

5665 Plaza Dr 200

NO PLUMB'G

PLUMBING/HEATING

NO.	ITEM		AMOUNT
	WATER CLOSET	6.00	
	BATH TUB	6.00	
	SHOWER	6.00	
	LAVATORY	6.00	
	SINK	6.00	
	DISHWASHER	6.00	
	LAUNDRY TUB	6.00	
	CLOTHES WASHER	6.00	
	FLOOR DRAIN	6.00	
	FLOOR SINK	6.00	
	MISC.	6.00	
	MISC.	6.00	
	MISC.	6.00	

NO.	ITEM		AMOUNT
	WATER HEATER	7.50	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5	.75	
	VACUUM BREAKER	7.50	
	INSTALL OR ALTER WATER SYSTEM	3.00	
	INSTALL OR ALTER WASTE OR VENTS	3.00	
	HOUSE SEWER	45.00	
	CONNECT ADD. H.S.	3.00	
	P-TRAP POOL DRN.	6.00	
	SEWER CAP	6.00	
	PLUMBING PERMIT	15.00	
	PLUMBING	$	
	PLUMBING/HEATING TOTAL		

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	9.00	
	OVER 100M	11.00	
8	DUCT ALT. or ADD	6.50	52.00
	KITCHEN-BATH VENT	4.50	
	COMM. HOOD	6.50	
	A.C. UNIT	9.00	
	WALL FURNACE	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5 COST EACH	.75	
	EVAP 1 - 10M	6.50	
	EVAP OVER 10M	11.00	
1	HEATING	15.00	15.00
	HEATING TOTAL $		67.00

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS, LIGHTING, RECEPTACLES, SWITCH	1 to 20	20	.75	15.00
	OVER 20	287	.45	129.15
LIGHTING FIXTURES		99	.75	74.25
RANGE/OVEN/CAR. DISP.			3.00	
DISHWASHER/GARBAGE DISP.			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.00	
	1 - 10		7.50	
	10 - 50		15.00	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	SERVICE 600V OVER 200A		37.50	
PANEL BOARD			11.00	
SWIM POOL/SPA			30.00	
TIME CLOCK			3.00	
SIGNS	NO. TRANS OR BALS.		15.00	
	NO. LAMPS		3.00	
TEMP. POWER			15.00	
ADDITIONAL SUPPORT POLES			7.50	
MISC.			11.00	
SUPPLEMENTARY PERMIT			4.50	
PERMIT FEE		1	15.00	15.00
			TOTAL FEE $	233.40

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	809.25	BUILDING PERMIT FEE	1245.00
ENERGY PLAN CHECK	311.25	S. B. 1374 (1 or 2) 2001-11	57.32
MECHANICAL/~~PLUMBING~~ PLAN CHECK	186.75	PLUMBING PERMIT	—
ELECTRICAL PLAN CHECK	186.75	HEATING PERMIT	67.00
ADMINISTRATIVE FEE		ELECTRICAL PERMIT 3202-11	233.40
	1494.00	TOTAL AMOUNT	1602.72

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

Signature of Permittee [signature] Building Dept. Oksana 10-14-05

PERMIT NUMBER 85386

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

10.91 50.00 245.00 57.32 67.00 233.40 725.69 10/14/05 FS

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: B C-5 License No. 184531 Exp. Date: 7/31/07

Signature _____

TO ALL PERMITTEES: In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: 3665 Plaza DR

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier Zurich American Insurance Co

Policy Number WC 367 6619-02

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: _____ Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing 10/18/05
Sewer _____
Insulation _____
Drywall 10/19/05
Ext. Lath _____
Sc. Coat _____
T-Bar 11/15/05
Gas Test _____

85386 FINALS 11/23/05

(34)

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 Plaza Dr. - Ste 105		CONTRACTOR SCG ELECTRIC	
LOT	TRACT	MAILING ADDRESS 5681 WINDCREST DR.	
PROPOSED USE		CITY Huntington Bch	STATE CA ZIP 92649
NEW / ADD / ALTER X / REPAIR / DEMOLISH / SPECIAL		TEL 714-840-5079	STATE LIC. NO. 859612
OWNER Pacific Residential TEL.		STATE LIC. CLASS C-10	CITY BUS. LIC. —
MAILING ADDRESS		ARCHITECT OR ENGINEER	
CITY STATE ZIP		STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL / LOT SIZE
				LIMITED TIME USE FROM	LIMITED TIME USE TO
	elect for TI			AREA SQ. FT.	NO. STORIES / ROOF COVERING / FENCING – LIN. FT.
				VALUATION	

$2091 11/9/05

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20	17	.75	12.75
	OVER 20		.45	
LIGHTING FIXTURES		21	.75	15.75
RANGE-OVEN-GAR. DISP.			3.00	
DISHWASHER-KIT. FAN			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.00	
heat pumps	1 - 10	2	7.50	15.00
	10 - 50		15.00	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	SERVICE 600V OVER 200A		37.50	
PANEL BOARD			11.00	
SWIM POOL/SPA			30.00	
TIME CLOCK			3.00	
SIGNS	NO. TRANS OR BALS.		15.00	
	NO. LAMPS		3.00	
TEMP. POWER POLES			15.00	
ADDITIONAL SUPPORT POLES			7.50	
MISC.			11.00	
SUPPLEMENTARY PERMIT			4.50	
PERMIT FEE			15.00	15.00
			TOTAL FEE $	30.50

FEE SUMMARY

BUILDING PLAN CHECK 3620-11		BUILDING PERMIT FEE	
ENERGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	
MECHANICAL/PLUMBING PLAN CHK.		PLUMBING PERMIT 3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT 3201-11	
ADMINISTRATIVE FEE		ELECTRICAL PERMIT 3202-11	30.50
		TOTAL AMOUNT DUE	30.50

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

Signature of Permitee Kelly A Stagl Building Dept. OKSUKA 11-9-05

PERMIT NUMBER 85526

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

11/09/05 93121 DA 30.50 CK 30.50 CHANGE 0.00

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C10 License No. B596121 Exp. Date: 5-31-2007

Signature Kelly A Stapp

TO ALL PERMITTEES: In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☑ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier State Fund

Policy Number 465-0000352

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: 6-11-90 Applicant: SCG ELECTRIC

Signature: Kelly A Stapp

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN *SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.*

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 11-9-05 Signature Kelly A Stapp

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER *BOUNDARY OF A SCHOOL?*

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. J Nelson 11/21/05
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS 12/20/05

13.00 + 50 = 63

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630

JOB ADDRESS 5665 PLAZA DR #105 SUITE		CONTRACTOR TO BE DECIDED - Roof Const	
LOT	TRACT	MAILING ADDRESS PO Box 80216	
PROPOSED USE OFFICE		CITY SAN Diego	STATE CA. ZIP 92108
NEW / ADD / ALTER X / REPAIR / DEMOLISH / SPECIAL		TEL. 760-535-1939	STATE LIC. NO. 184531
OWNER R.R.E.E.F.	TEL. 949 752-6242	STATE LIC. CLASS B C-8	CITY BUS. LIC.
MAILING ADDRESS 101 ENTERPRISE #150		ARCHITECT OR ENGINEER Schlemmer & Algaze Assoc.	
CITY ALISO VIEJO STATE CA ZIP		STATE LIC. NO. 760-	TEL. 714-724-8958

TROY 535 1939

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST. II.	DATE	FRONT YARD	RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL NA	ENGINEERING DEPT. APPROVAL NA / LOT SIZE
T.I. - OFFICE ADD NEW WALLS + DOORS				LIMITED TIME USE FROM	LIMITED TIME USE TO
				AREA SQ. FT. 1525	NO. STORIES / ROOF COVERING / FENCING - LIN. FT.
				VALUATION 53,375	

NO PLUMBING

PLUMBING/HEATING

NO.	ITEM		AMOUNT
	WATER CLOSET	6.00	
	BATH TUB	6.00	
	SHOWER	6.00	
	LAVATORY	6.00	
	SINK	6.00	
	DISHWASHER	6.00	
	LAUNDRY TUB	6.00	
	CLOTHES WASHER	6.00	
	FLOOR DRAIN	6.00	
	FLOOR SINK	6.00	
	MISC.	6.00	
	MISC.	6.00	
	MISC.	6.00	

NO.	ITEM		AMOUNT
	WATER HEATER	7.50	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5	.75	
	VACUUM BREAKER	7.50	
	INSTALL OR ALTER WATER SYSTEM	3.00	
	INSTALL OR ALTER WASTE OR VENTS	3.00	
	HOUSE SEWER	45.00	
	CONNECT ADD. H.S.	3.00	
	P-TRAP POOL DRN.	6.00	
	SEWER CAP	6.00	
	PLUMBING PERMIT	15.00	
	PLUMBING	$	
	PLUMBING/HEATING TOTAL		

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	9.00	
	OVER 100M	11.00	
2	DUCT ALT. or ADD	6.50	13-
	KITCHEN-BATH VENT	4.50	
	COMM. HOOD	6.50	
	A.C. UNIT	9.00	
	WALL FURNACE	9.00	
	GAS SYSTEM + (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5 COST EACH	.75	
	EVAP 1 - 10M	6.50	
	EVAP OVER 10M	11.00	
	HEATING	15.00	15-
	HEATING TOTAL $		28-

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20	16	.75	
	OVER 20	20	.45	
LIGHTING FIXTURES			.75	
RANGE-OVEN-GAR. DISP.			3.00	
DISHWASHER-KIT. FAN			3.00	
CLOTHES DRYER-AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.00	
	1 - 10		7.50	
	10 - 50		15.00	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	SERVICE 600V OVER 200A		37.50	
PANEL BOARD			11.00	
SWIM POOL/SPA			30.00	
TIME CLOCK			3.00	
SIGNS	NO. TRANS OR BALS.		15.00	
	NO. LAMPS		3.00	
TEMP. POWER			15.00	
ADDITIONAL SUPPORT POLES			7.50	
MISC.			11.00	
SUPPLEMENTARY PERMIT			4.50	
PERMIT FEE			15.00	
			TOTAL FEE $	

FEE SUMMARY

		BUILDING PERMIT FEE		432.50
BUILDING PLAN CHECK 3620-11	281.13	S. B. 1374 (1 or 2) 2001-11		11.21
ENERGY PLAN CHECK	108.13	PLUMBING PERMIT		
MECHANICAL/PLUMBING PLAN	64.88	HEATING PERMIT		28-
ELECTRICAL PLAN CHECK	64.88	ELECTRICAL PERMIT 3202-11		
ADMINISTRATIVE FEE		TOTAL AMOUNT		471.71
	454.14			

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

Signature of Permitee _____ Building Dept. Ofelia 11-9-05

PERMIT NUMBER 05525

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: B-C8 License No. 184531 Exp. Date: 7-31-2007

Signature _____

TO ALL PERMITTEES: In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☒ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier Zurich - American

Policy Number WC 3676619-02

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 11-09-05 Signature [signature]

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing [signature] 11/21/05
Sewer _____
Insulation _____
Drywall [signature] 11/23/05
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS 12/20/05

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA DRIVE		CONTRACTOR ~~BREE~~ TO BE DECIDED	
LOT	TRACT A and B	MAILING ADDRESS	
PROPOSED USE OFFICE		CITY	STATE ZIP
NEW / ADD / ALTER ✓ / REPAIR / DEMOLISH / SPECIAL		TEL.	STATE LIC. NO.
OWNER RREEF TEL 949 752 6242		STATE LIC. CLASS	CITY BUS. LIC.
MAILING ADDRESS 101 ENTERPRISE #150		ARCHITECT OR ENGINEER	
CITY ALISO VIEJO STATE CA ZIP 92656		STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP B	TYPE CONST. II-FR	DATE 5-13-05	FRONT YARD	RIGHT SIDE YARD
ZONE	JOB DESCRIPTION T.I. OFFICE REMODEL			PLANNING DEPT. APPROVAL KW	ENGINEERING DEPT. APPROVAL
				LIMITED TIME USE FROM	LIMITED TIME USE TO
				AREA SQ. FT.	NO. STORIES
				VALUATION 275,000	

LEFT SIDE YARD	REAR YARD	
LOT SIZE		

NO PLUMBING

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT
	WATER CLOSET	6.00	
	BATH TUB	6.00	
	SHOWER	6.00	
	LAVATORY	6.00	
	SINK	6.00	
	DISHWASHER	6.00	
	LAUNDRY TUB	6.00	
	CLOTHES WASHER	6.00	
	FLOOR DRAIN	6.00	
	FLOOR SINK	6.00	
	MISC.	6.00	
	MISC.	6.00	
	MISC.	6.00	

NO.	ITEM		AMOUNT
	WATER HEATER	7.50	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5	.75	
	VACUUM BREAKER	7.50	
	INSTALL OR ALTER WATER SYSTEM	3.00	
	INSTALL OR ALTER WASTE OR VENTS	3.00	
	HOUSE SEWER	45.00	
	CONNECT ADD. H.S.	3.00	
	P-TRAP POOL DRN.	6.00	
	SEWER CAP	6.00	
	PLUMBING PERMIT	15.00	
	PLUMBING TOTAL $		
	PLUMBING/HEATING TOTAL		

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	9.00	
	OVER 100M	11.00	
	DUCT ALT. or ADD	6.50	
	KITCHEN-BATH VENT	4.50	
	COMM. HOOD	6.50	
	A.C. UNIT	9.00	
	WALL FURNACE	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5 COST EACH	.75	
	EVAP 1 - 10M	6.50	
	EVAP OVER 10M	11.00	
	HEATING PERMIT	15.00	
	HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20	4	.75	
	OVER 20		.45	
LIGHTING FIXTURES		90	.75	
RANGE-OVEN-GAR. DISP.			3.00	
DISHWASHER-KIT. FAN $			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS 66-666-11-0292			.035 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.00	
	1 - 10		7.50	
	10 - 50		15.00	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	SERVICE 600V OVER 200A		37.50	
PANEL BOARD			11.00	
SWIM POOL/SPA			30.00	
TIME CLOCK			3.00	
SIGNS	NO. TRANS OR BALS.		15.00	
	NO. LAMPS		3.00	
TEMP. POWER POLES			15.00	
ADDITIONAL SUPPORT POLES			7.50	
MISC.			11.00	
SUPPLEMENTARY PERMIT			4.50	
PERMIT FEE			15.00	
			TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	813.80
ENERGY PLAN CHECK	313.00
MECHANICAL/PLUMBING PLAN CHK.	187.80
ELECTRICAL PLAN CHECK	187.80
ADMINISTRATIVE FEE	
	1502.40

EHR 5-19-05

BUILDING PERMIT FEE		
S. B. 1374 (1 or 2)	2001-11	
PLUMBING PERMIT	3201-11	
HEATING PERMIT	3201-11	
ELECTRICAL PERMIT	3202-11	
TOTAL AMOUNT DUE		

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER

Signature of Permitee _____ Building Dept. _____

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 rev. 5-96

Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: _____ License No. _____ Exp. Date: _____

Signature _____

***TO ALL PERMITTEES:** In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier _____

Policy Number _____

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: _____ Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

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PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS _____

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA DR SUITE 200		CONTRACTOR FIRE PROTECTION SPECIALISTS	
LOT	TRACT	MAILING ADDRESS 2810 E MIRALOMA AVE	
PROPOSED USE		CITY ANAHEIM	STATE CA ZIP 92806
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL (714) 635-6500	STATE LIC. NO. 464915
OWNER JACOB ENGINEERING TEL.		STATE LIC. CLASS C16	CITY BUS. LIC.
MAILING ADDRESS		ARCHITECT OR ENGINEER ROB ANDERSON	
CITY	STATE ZIP	STATE LIC. NO. 46491	TEL (714) 635-6500

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE 10/28/05	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION ADD/RELOCATE (50) FIRE SPRINKLERS			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL		LOT SIZE
				LIMITED TIME USE FROM		LIMITED TIME USE TO	
				AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING -- LIN. FT.
				VALUATION 3500.-			

1334104

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT
	WATER CLOSET	6.00	
	BATH TUB	6.00	
	SHOWER	6.00	
	LAVATORY	6.00	
	SINK	6.00	
	DISHWASHER	6.00	
	LAUNDRY TUB	6.00	
	CLOTHES WASHER	6.00	
	FLOOR DRAIN	6.00	
	FLOOR SINK	6.00	
	MISC.	6.00	
	MISC.	6.00	
	MISC.	6.00	

NO.	ITEM		AMOUNT
	WATER HEATER	7.50	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5	.75	
	VACUUM BREAKER	7.50	
	INSTALL OR ALTER WATER SYSTEM	3.00	
	INSTALL OR ALTER WASTE OR VENTS	3.00	
	HOUSE SEWER	45.00	
	CONNECT ADD. H.S.	3.00	
	P-TRAP POOL DRN.	6.00	
	SEWER CAP	6.00	
	PLUMBING PERMIT	15.00	
	PLUMBING TOTAL $		
	PLUMBING/HEATING TOTAL		

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	9.00	
	OVER 100M	11.00	
	DUCT ALT. or ADD	6.50	
	KITCHEN-BATH VENT	4.50	
	COMM. HOOD	6.50	
	A.C. UNIT	9.00	
	WALL FURNACE	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5 COST EACH	.75	
	EVAP 1 - 10M	6.50	
	EVAP OVER 10M	11.00	
	HEATING PERMIT	15.00	
	HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75	
	OVER 20		.45	
LIGHTING FIXTURES			.75	
RANGE-OVEN-GAR. DISP.			3.00	
DISHWASHER-KIT. FAN			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.038 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.00	
	1 - 10		7.50	
	10 - 50		15.00	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	SERVICE 600V OVER 200A		37.50	
PANEL BOARD			11.00	
SWIM POOL/SPA			30.00	
TIME CLOCK			3.00	
SIGNS	NO. TRANS OR BALS.		15.00	
	NO. LAMPS		3.00	
TEMP. POWER POLES			15.00	
ADDITIONAL SUPPORT POLES			7.50	
MISC.			11.00	
SUPPLEMENTARY PERMIT			4.50	
PERMIT FEE			15.00	
			TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	
ENERGY PLAN CHECK	3709-11-999-99
MECHANICAL/PLUMBING PLAN CHK	3649-11-999-99
ELECTRICAL PLAN CHECK	3620-11-999-99
ADMINISTRATIVE FEE	40.95

BUILDING PERMIT FEE		
S. B. 1374 (1 or 2)	2001-11	
PLUMBING PERMIT	3201-11	
HEATING PERMIT	3201-11	
ELECTRICAL PERMIT	3202-11	
TOTAL AMOUNT DUE		63.74

63.00
.74

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

Signature of Permitee [signature] Building Dept. [signature] 11-8-05

PERMIT NUMBER 85517

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

11/08/05 0.91
63.00 0.74
6.50 65.00
136.15 PD 136.15
34.15

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C46 License No. 464945 Exp. Date: 10/31/06

Signature Robert Bowles

TO ALL PERMITTEES: In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

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☒ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier STATE AND FUND

Policy Number 1712477-2004

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

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☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 1/8/05 Signature Robert Bowles

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

85517 FINALS 11/22/05

PLAN REVIEW SUBMITTAL CRITERIA

Complete the following questions as they relate to the project you are proposing.

PROJECT ADDRESS: 5665 PLAZA DR. # 200

CONTACT NAME: BRUCE MORIMOTO PHONE NUMBER: 949 729 8958

YES	NO	
		ONE AND TWO FAMILY RESIDENTIAL PROJECTS (R3 occupancies)
☐	☐	1. Does the total square footage (existing and new), including garage, exceed 3,600 square feet? Submit residential site plan.
☐	☐	2. Is the house or new structure located in excess of 50 feet from the street? Submit residential site plan.
☐	☐	3. Is the house within a Special Fire Protection Area or Very High Fire Hazard Severity Zone? Submit residential site plan and fire sprinkler plan.
☐	☐	4. Is your lot adjacent to non-irrigated native vegetation or a slope?
☐	☐	5. Are you installing a gate that restricts access to a house where the house is located in excess of 50 feet from the street? Submit residential gate plan. (An approved residential site plan may be required prior to approving the gate.)
☐	☐	6. **Yorba Linda ONLY**: Is this a new residence or an addition greater than 1000 square feet and is the residence located within the Division of Oil, Gas and Geothermal Resources administrated boundary? Submit methane investigation plan.
		COMMERCIAL PROJECTS
☐	☒	7. Does this project include changes to the site, location of fire hydrants, or parking striping? Submit fire master plan.
☐	☒	8. Does this project include construction of a new structure or increase the footprint of an existing building? Submit fire master plan.
☐	☒	9. Is the project within a Special Fire Protection Area or Very High Fire Hazard Severity Zone? Submit fire master plan and fire sprinkler plan.
☐	☒	10. Will the new building, addition, or tenant improvement contain one of the following occupancies: Assembly, Educational, Factory, Hazardous materials, Institutional, or Multi-family Residential (3 or more units)? Submit architectural plans.
☐	☒	11. Will the new building, addition, or tenant improvement contain storage or merchandizing areas that are greater than 500 sq. ft. and/or storage greater than 12 feet high? Submit high-piled storage plans.
☐	☒	12. Does the project involve the installation of industrial piping? Submit floor plan, Chemical Classification Package and piping plans.
☐	☒	13. Does the project involve the installation or modification of an industrial refrigeration system? Submit OCFA Refrigerant Disclosure form.
☐	☒	14. Does the project involve the installation or modification of a commercial hood system? Submit Hood and Duct System plans.
☐	☒	15. Does this plan involve the construction of a high-rise building (height of building is equal to or more than 55 feet from the lowest point of fire access to highest occupied floor)? Submit architectural plans.
☐	☒	16. Did you answer "yes" to any of the questions contained on page 2 of the Orange County Fire Authority Permit Screening Form (PSF)? Submit plans for the specific operation you have indicated "yes" to. *Note: The PSF is available through all building departments and the OCFA.*
☐	☒	17. Does this plan involve the installation of gates that restrict access to any structures? Submit a gate plan.

NOTE:

- An existing building under going a tenant improvement that contains a fire sprinkler, fire alarm and/or special fire extinguishing system must have the fire system evaluated by a licensed contractor to determine if the system must be modified. If the system is found to require modification, the licensed contractor shall submit plans for approval prior to any change taking place.
- If you answered "YES" to any of the questions, you must submit your project through the building department or directly to the OCFA for review (see the Plan Routing Form). Submit *this* completed form with your plan.
- If you have answered "NO" to all the questions, the Building Department may accept this checklist as the written release.
- If you have answered "NO" to all the questions and the Building Department requires that your plan be stamped by OCFA, the plans must be submitted with a copy of the correction letter from the Building Department and the appropriate fees.

I certify under penalty of perjury under the laws of the State of California that the above is true.

Date: 9-22-05 Signature: Doug Cleaver Print name: DOUG CLEAVER

FIRE AND LIFE SAFETY INSPECTION NOTICE

SUPPLEMENTAL SHEET

ORANGE COUNTY FIRE AUTHORITY

180 S. Water St., Orange, CA 92866

(714) 744-0400 FIRST

Page 1 of 1

Inspection No. SR [redacted] 107768

Date: 4-11-03

ADDRESS: 5765 PLAZA DRIVE DBA: U.S. INFRESCO PHONE: 626-376-6513

OCC/MGR: [redacted] ROBIN TILES RECEIVED BY

MEASURES SHALL BE TAKEN IMMEDIATELY TO CORRECT ALL VIOLATIONS LISTED HEREIN.
FAILURE TO COMPLY WITHIN THE SPECIFIED TIME WILL RESULT IN LEGAL ACTION.

CLEAR DATE	VIO. CODE		CODE REFERENCE
		MS. TILES FOR RREEF & CO (BUILDING OWNER)	
		TEMPORARY CERTIFICATE OF	
		OCCUPANCY (TCO) IS	
		AUTHORIZED UNDER THE	
		FOLLOWING CONDITIONS:	
		1) FURNISHINGS MAY BE MOVED	
		INTO BUILDING SUITE (100)	
		2) EMPLOYEES MAY OCCUPY SUITE	
	*	3) 24-HOUR FIRE WATCH SHALL BE	
		IN PLACE UNTIL FIRE ALARM	
		SYSTEM IS APPROVED (SR107768)	
	*	4) FIVE YEAR CERTIFICATION FOR	
		FIRE SPRINKLER SYSTEM AND FIRE	
		PUMP SHALL BE COMPLETED WITHIN	
		10 DAYS OF ISSUED TCO. (4-21-03)	
		5) NOTIFY CYPRESS BUILDING DEPT.	
		OF OCFA TCO	
		6) [redacted]	
		CALL FOR FIRE ALARM TEST (CARMEL	
		SIMPLEX TO MAKE APPOINTMENT)	
		7) CALL FOR FIRE SPRINKLER FINAL	
		WHEN SUITE 100 CORRECTIONS AND	
IMMEDIATE		5-YEAR CERTIFICATE IS COMPLETE	

REINSPECTION DATE: ASAP IF YOU ARE UNABLE TO CORRECT VIOLATIONS INDICATED ABOVE BY THE REINSPECTION DATE, CONTACT (INSP NAME) TOM CARMAN

AT (PHONE) 949-559-7541 IMMEDIATELY TO AVOID ANY ADDITIONAL FEES, FINES OR LEGAL ACTION.

714-744-0567 FOR INSPECTION SCHEDULE

1211-122.3 (3/98)

ORANGE COUNTY FIRE AUTHORITY

Fire Prevention Division

PO Box 86, Orange, CA 92856-9086 • 180 South Water St., Orange, CA 92866-2123

Planning and Development Services • www.ocfa.org • (714) 744-0400 / Fax (714) 289-7811

FIRE WATCH

Bus/Proj: FIRST U.S. MERCHANT **Date Req:** 4-11-09
Address: 5665 PLAZA DRIVE
City: CYPRESS **SR#** [redacted] / SR107768

Name of business *requiring immediate* Fire Watch [redacted] RREEF + CO. Telephone # 949-752-6242

Name of business *requesting* Fire Watch _____ Telephone # _____

Name of Co./Individual performing Fire Watch WESTERN SECURITY Telephone # 818-376-8513

Operative Fire Sprinkler System	*yes* [redacted]	*no [ ]*
Operative Fire Alarm System	*yes [ ]*	*no* [redacted]
Operative Monitoring System	*yes* [redacted]	*no [ ]*

CONDITIONS

The following are minimal requirements required by **The Orange County Fire Authority:**

1. Shall have the ability to communicate in English; Minimum 18 years of age.
2. Shall have the capability to notify the Orange County Fire Authority in case of emergency(*via telephone 911*).
3. Shall have no other assigned duties or responsibilities.
4. Shall make routine patrols of specified areas and maintain log.
5. Shall have the ability to recognize Fire Alarm sound and familiar with evacuation procedures.
6. Shall have the ability to use a fire extinguisher in case of small fires.

Additional comments:
FIRE WATCH SHALL BE 24-HOUR CONTINUOUS FOR SUITE 100
FIRE WATCH OFFICER SHALL BE KEPT AVAILABLE FOR INSPECTION
FIRE WATCH SHALL BE RELEASED UPON APPROVAL OF
FIRE ALARM SYSTEM IN SUITE 100.

Contact the Orange County Fire authority prior to release of Fire Watch.

[signature] 4/11/09 — Signature(owner or agent) — Date

[signature] 4-11-09 — OCFA — Date

_____ — Release of Condition — Date

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 Plaza Drive, Suite #100		CONTRACTOR Kimble & Company	
LOT	TRACT	MAILING ADDRESS 17641 Sampson Lane	
PROPOSED USE		CITY Huntington Beach, STATE CA ZIP 92647	
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. (714) 841-7053	STATE LIC. NO. 460923
OWNER RREEF Mgmt.	TEL.	STATE LIC. CLASS C-16	CITY BUS. LIC.
MAILING ADDRESS 4041 MacArthur, #575		ARCHITECT OR ENGINEER	
CITY Newport Beach, CA STATE ZIP 92660		STATE LIC. NO.	TEL.

NOTARIZED AUTHORIZATION MAY BE REQUIRED 5665 Plaza

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL / LOT SIZE
	fire sprinklers			LIMITED TIME USE FROM	LIMITED TIME USE TO
				AREA SQ. FT. 11932	NO. STORIES / ROOF COVERING / FENCING -- LIN. FT.
				VALUATION ~~31,023~~ 11,000 per contract	

~~13756~~ 102987

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TAB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL $				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20		.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft		TEMP. POWER POLES			15.00	
MOTORS OVER INC. HP	0 - 1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1 - 10		7.50		MISC.			11.00	
	10 - 50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
								TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	~~193.38~~ 81.90	BUILDING PERMIT FEE 3200-11	126.00
ENERGY PLAN CHECK		S. B. 1374 (1 or 2) 3201-11	2.31
MECHANICAL/PLUMBING PLAN CHK.		PLUMBING PERMIT 3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT 3201-11	
ADMINISTRATIVE FEE		ELECTRICAL PERMIT 3201-11	
		TOTAL AMOUNT DUE	128.31

3107-11-99 3200-11-99 2001-11-99 2045-11-99 3202-11-99 3203-11-99

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 80596

Signature of Permitee Ken Kimble Building Dept. HH

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

666 12/14/05 185.07 PD

2.86 126.00 2.31 49.00 4.90

B-1 Rev. 6-95 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C-16 License No. 460923 Exp. Date: 8/31/04

Signature [signature]

TO ALL PERMITTEES: In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier STATE fund.

Policy Number 1589741-02

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date 3/14/03 Signature [signature]

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

80596 **FINALS** [signature] 4/15/03

CITY OF CYPRESS

BUILDING & SAFETY "CITY"
PLAN CORRECTION SHEET

DATE: 05/27/05
PLAN CHECKER: JOSE MELAD, PE **PLAN CHECK NO:**

BUILDING ADDRESS				APPLICANT			PHONE	
5665 PLAZA DRIVE				S/A/A ARCHITECT			949-724-8958	
TYPE OF CONSTRUCTION	**OCCUPANCY GROUP**		**USE OF BUILDING**			**STORIES**	**FLOOR AREA SQ. FT.**	
II-FR,SP	B		OFFICE			5	7,882	
NEW		**ADDITION**		**REPAIR**		**ALTERATION**	X	

PLEASE READ CAREFULLY

Your application for a permit, together with plans and specifications, has been examined. The following corrections are necessary and new plans must be submitted along with this original set for rechecking. To facilitate ease of rechecking, please enter on each correction item listed below the location of the corrected information. **Return these sheets along with all plans and specifications after corrections have been made to the Building and Safety Department.**

Reference

GENERAL CORRECTIONS: 2001 CBC (Tenant Improvement)

1. Refer to check-set of plans and calcs marked in red for corrections/comments and return with two corrected sets for recheck.
2. Submit plans to the Fire Department for approval prior to issuance of building permit.
3. Show detail of 1-hour new corridors with 20 min. doors with coordinated astragal. See check-set.

MECHANICAL & T-24: 2001 CMC

Checker: Ray Go, ME

1. Refer to check-set for corrections noted in red. Respond to comments and return check-set to facilitate recheck.
2. Affix MECH-1 forms on plans, properly filled out with signature of preparer.
3. Provide a note on the plans that states "An air balance test will be required to verify the proper amount of outside air to comply with T-24 calculations, before final approval of this project".
4. Provide required supply and return for the corridor and shall not be ducted from. other areas/rooms.
5. Make-up air for restroom shall not be drawn from corridor due to fire resistive construction.
6. Air handling duct systems shall be constructed, installed and insulated as provided in Chapter 6 of CMC, 2001. (Note on plan).
7. Comply with Section 602.2 for combustibles within the return air plenum for restrictions.
8. Specify outside air CFM to each AC unit per T-24 calculations.

Checked by Melad & Associates, Engineering & Code Consultant. Telephone (714) 848-0487, Fax (714) 848-7027

CITY OF CYPRESS
BUILDING & SAFETY
PLAN CORRECTION SHEET

Reference

9. Comply with Table 4-2 of Energy Standards for required minimum ventilation rate per occupancy.

10. Prior to mechanical permit final approval, a smoke detector shut-off test will be required per Section 609. Note on plan.

11. Clarify and highlight any new work on sht. M-3.

ELECTRICAL: 2001 CEC

1. Show locations of existing sub-panels on plan.

2. Provide exit signs with backup power as noted on check-set.

3. Show total connected load or demand load on existing main distribution panel per Section 220-35.

4. TITLE 24: ENERGY CONSERVATION

   a. Show actual floor area and No. and Types of light fixtures on calcs.
   b. Provide separate switch at day-lit areas.
   c. Check area covered by each occupancy sensor per mfgr's specs.

5. Note the following on plans:

   a. Lights and panels shall not be recessed in fire rated assemblies unless boxed with equivalent construction.
   b. Mount the following above finish floor:
      Outlets – 15" to 48"
      Switches – 36" to 48"
      T-mostats – 36" to 48"

6. Refer to check-set of plans for corrections/comments noted in red. Please return this check-set with two corrected set to facilitate recheck.

CITY OF CYPRESS

5275 Orange Avenue
Cypress, CA 90630
Phone (714) 229-6713

Date	Receipt Number
10 12 14	82819

Payee Name	5665 PIAZO
Payee Address	

Account	Description	Amount
31020-11	OT - PIF	100 00
	Total	100 00

REF: #9,3439
4 HRS

BY: _____

This receipt is valid **ONLY** when the Transaction Number, Date, and Receipt Amount are printed

F-24 rev. 1-02 JetForm Dispersal *White* - Payee / *Canary* - Cashier / *Pink* - Numerical / *Gold* - Dept.

WARE MALCOMB

architecture | planning | interiors | branding | civil

Plan Check Clarification

Date:	December 8th, 2016	Project Name:	Toyo Tires
To:	City of Cypress Building Department	Project No.:	IRV15-6193-01
		From:	Nelson Tello
Subject:	Revision to Permit	Permit No.:	5277

The following corrections for the above referenced project were completed and can be located as indicated:

Corrections:

Sheet A1.2 – See revised exit and occupancy plan for non-rated corridor #201 and accessory occupancy classification at Conference #244.

Sheet A6.3 – See revised elevation 'J' to remove fire rated glass requirement. See revised elevation 'G' to remove fire rated glass requirement and changes to glass thickness.

Sheet A7.1 – See revised door schedule to remove fire rated door requirements at doors #244a and #244c

(3-1)

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 - PLAZA DR. 5TH FLOOR		CONTRACTOR HARLINE ENTERPRISES	
LOT	TRACT	MAILING ADDRESS 3210 S. SUSAN	
PROPOSED USE Office		CITY SANTA ANA	STATE CA ZIP 92704
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. 714 751 0274	STATE LIC. NO. 594228
OWNER RREEF	TEL. 949-752-6242	STATE LIC. CLASS	CITY BUS. LIC.
MAILING ADDRESS 1301 DOVE		ARCHITECT OR ENGINEER	
CITY NEWPORT BEACH STATE CA ZIP		STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE
ZONE	JOB DESCRIPTION CREATE 2 OFFICES IN EXISTING OPEN AREA (SMALL T.I.)		
FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
PLANNING DEPT. APPROVAL KW	ENGINEERING DEPT. APPROVAL		LOT SIZE
LIMITED TIME USE FROM		LIMITED TIME USE TO	
AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING -- LIN. FT.
VALUATION 3500			

5665 Plaza

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT
	WATER CLOSET	6.00	
	BATH TUB	6.00	
	SHOWER	6.00	
	LAVATORY	6.00	
	SINK	6.00	
	DISHWASHER	6.00	
	LAUNDRY TUB	6.00	
	CLOTHES WASHER	6.00	
	FLOOR DRAIN	6.00	
	FLOOR SINK	6.00	
	MISC.	6.00	
	MISC.	6.00	
	MISC.	6.00	

NO.	ITEM		AMOUNT
	WATER HEATER	7.50	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5	.75	
	VACUUM BREAKER	7.50	
	INSTALL OR ALTER WATER SYSTEM	3.00	
	INSTALL OR ALTER WASTE OR VENTS	3.00	
	HOUSE SEWER	45.00	
	CONNECT ADD. H.S.	3.00	
	P-TRAP POOL DRN.	6.00	
	SEWER CAP	6.00	
	PLUMBING PERMIT	15.00	
	PLUMBING TOTAL $		
	PLUMBING/HEATING TOTAL $		

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	9.00	
	OVER 100M	11.00	
	DUCT ALT. or ADD	6.50	
	KITCHEN-BATH VENT	4.50	
	COMM. HOOD	6.50	
	A.C. UNIT	9.00	
	WALL FURNACE	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5 COST EACH	.75	
	EVAP 1 - 10M	6.50	
	EVAP OVER 10M	11.00	
	HEATING PERMIT	15.00	
	HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS: $0	1 to 20	~~6~~	.75	4.50
	OVER 20		.45	
LIGHTING FIXTURES		1	.75	.75
RANGE-OVEN-GAR. DISP.			3.00	
DISHWASHER-KIT. FAN			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.00	
	1 - 10		7.50	
	10 - 50		15.00	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	SERVICE 600V OVER 200A		37.50	
PANEL BOARD			11.00	
SWIM POOL/SPA			30.00	
TIME CLOCK			3.00	
SIGNS	NO. TRANS OR BALS.		15.00	
	NO. LAMPS		3.00	
TEMP. POWER POLES			16.00	
ADDITIONAL SUPPORT POLES			7.50	
MISC.	3107-11-999-99		11.00	50.91
SUPPLEMENTARY PERMIT	3200-11-999-99		4.50	63.00
PERMIT FEE	2001-11-999-99		15.00	~~0.74~~ 13.20
	3620-11-999-99			~~40.95~~ 20.25
	3202-11-999-99		TOTAL FEE $	20.25

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	40.95	BUILDING PERMIT FEE 3200-11	63.00
ENERGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	.74
MECHANICAL/PLUMBING PLAN CHK.		PLUMBING PERMIT 3201-11	~~$175.85 PD~~
ELECTRICAL PLAN CHECK		HEATING PERMIT 3201-11	
ADMINISTRATIVE FEE		ELECTRICAL PERMIT 3202-11	20.25
		TOTAL AMOUNT DUE	124.94

~~CE 6202 03/24/03~~ 175.85

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

Signature of Permitee _____ Building Dept. Otsuka 3-24-03

PERMIT NUMBER 8064?

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my licence is in full force and effect.

License Class: B License No. 594228 Exp. Date: _____

Signature _____

TO ALL PERMITTEES: *In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier STATE FUND

Policy Number 045-02

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).]

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.]

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.]

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 3-24 Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR *FUTURE BUILDING OCCUPANT* REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG. Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. 3/28/03
Conduit _____
Framing JW 4/2/03
Sewer _____
Insulation _____
Drywall JW 4/2/03
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

80649 FINALS JW 4/23/03

,99

BUILDING DIVISION · PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

NOTARIZED AUTHORIZATION MAY BE REQUIRED

JOB ADDRESS 5665 PLAZA DR. GR.FL. LOBBY		CONTRACTOR KIMBLE AND COMPANY	
LOT	TRACT	MAILING ADDRESS 10144 E. ARTESIA BL.	
PROPOSED USE		CITY BELLFLOWER.	STATE CA. ZIP 90706
NEW / ADD / ALTER X / REPAIR / DEMOLISH / SPECIAL		TEL. 562-867-9300	STATE LIC. NO. 460923
OWNER MITSUBISHI	TEL.	STATE LIC. CLASS C-16	CITY BUS. LIC. 0-036491-L
MAILING ADDRESS 5665 PLAZA DR.		ARCHITECT OR ENGINEER	
CITY CYPRESS CA. STATE CA. ZIP		STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION Relocate 14 Fire Sprinkler Head			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL	LOT SIZE
				LIMITED TIME USE FROM		LIMITED TIME USE TO
				AREA SQ. FT. 864	NO. STORIES	ROOF COVERING / FENCING – LIN. FT.
				VALUATION 2,250		

5665

102988

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TAB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL $				HEATING TOTAL $		

P1E76

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20		.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft		TEMP. POWER POLES			15.00	
MOTORS OVER INC. HP	0 - 1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1 - 10		7.50		MISC.			11.00	
	10 - 50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
					TOTAL FEE $				

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	35.10	BUILDING PERMIT FEE 3200-11	54.00
ENERGY PLAN CHECK		S. B. 1374 (1 or 2) 3201-11	.50
MECHANICAL/PLUMBING PLAN CHK.		PLUMBING PERMIT 3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT 3201-11	
ADMINISTRATIVE FEE		ELECTRICAL PERMIT 3201-11	
		TOTAL AMOUNT DUE	54.50

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 102988

Signature of Permitee Ron Kimble Building Dept. [signature] 5-16-03

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

3708-11-999-99	23.00
2049-11-999-99	250.00
3620-11-999-99	35.10

05/15/03 10:55:09 FD 0.50 54.00 0.59

B-1 Rev. 6-95 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C-16 License No. 460923 Exp. Date: 8/31/04

Signature [signature]

***TO ALL PERMITTEES:** In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier STATE fund.

Policy Number 1589741-07

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: _____ Signature [signature]

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS _____

EXPIRED
AUG 23 2007

1.56

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 Plaza Dr. 1ST FL (South)	CONTRACTOR HARLINE ENTERPRISES
LOT / TRACT	MAILING ADDRESS 3210 S. Susan St.
PROPOSED USE	CITY Santa Ana STATE CA. ZIP 92704
NEW / ADD / ALTER / REPAIR / DEMOLISH ✓ / SPECIAL	TEL. 714 751 0274 STATE LIC. NO. 594228
OWNER Rreef TEL.	STATE LIC. CLASS B CITY BUS. LIC.
MAILING ADDRESS	ARCHITECT OR ENGINEER
CITY STATE ZIP	STATE LIC. NO. TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE
ZONE	JOB DESCRIPTION		
Interior demo			

FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL		LOT SIZE
LIMITED TIME USE FROM		LIMITED TIME USE TO	
AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING -- LIN. FT.
VALUATION 6,000			

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT
	WATER CLOSET	6.00	
	BATH TUB	6.00	
	SHOWER	6.00	
	LAVATORY	6.00	
	SINK	6.00	
	DISHWASHER	6.00	
	LAUNDRY TUB	6.00	
	CLOTHES WASHER	6.00	
	FLOOR DRAIN	6.00	
	FLOOR SINK	6.00	
	MISC.	6.00	
	MISC.	6.00	
	MISC.	6.00	

NO.	ITEM		AMOUNT
	WATER HEATER	7.50	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5	.75	
	VACUUM BREAKER	7.50	
	INSTALL OR ALTER WATER SYSTEM	3.00	
	INSTALL OR ALTER WASTE OR VENTS	3.00	
	HOUSE SEWER	45.00	
	CONNECT ADD. H.S.	3.00	
	P-TRAP POOL DRN.	6.00	
	SEWER CAP	6.00	
	PLUMBING PERMIT	15.00	
	PLUMBING TOTAL $		
	PLUMBING/HEATING TOTAL $		

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	9.00	
	OVER 100M	11.00	
	DUCT ALT. or ADD	6.50	
	KITCHEN-BATH VENT	4.50	
	COMM. HOOD	6.50	
	A.C. UNIT	9.00	
	WALL FURNACE	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5 COST EACH	.75	
	EVAP 1 - 10M	6.50	
	EVAP OVER 10M	11.00	
	HEATING PERMIT	15.00	
	HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75	
	OVER 20		.45	
LIGHTING FIXTURES			.75	
RANGE-OVEN-GAR. DISP.			3.00	
DISHWASHER-KIT. FAN			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.00	
	1 - 10		7.50	
	10 - 50		15.00	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	SERVICE 600V OVER 200A		37.50	
PANEL BOARD			11.00	
SWIM POOL/SPA			30.00	
TIME CLOCK			3.00	
SIGNS	NO. TRANS OR BALS.		15.00	
	NO. LAMPS		3.00	
TEMP. POWER POLES			15.00	
ADDITIONAL SUPPORT POLES			7.50	
MISC.			11.00	
SUPPLEMENTARY PERMIT	3107-11-999-99		4.50	1.56
PERMIT FEE	3200-11-999-99		15.00	81.00
	2001-11-999-99		TOTAL FEE $	1.26
	3620-11-999-99			52.65

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	52.65
ENERGY PLAN CHECK	
MECHANICAL/PLUMBING PLAN CHK.	
ELECTRICAL PLAN CHECK	
ADMINISTRATIVE FEE	

BUILDING PERMIT FEE	3200-11	81.00 CC 7998 06/03/03
S. B. 1374 (1 or 2)	2001-11	1.26 CK 136.47
PLUMBING PERMIT	3201-11	$136.47 PD
HEATING PERMIT	3201-11	
ELECTRICAL PERMIT	3202-11	
TOTAL AMOUNT DUE		134.91

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 809181

Signature of Permitee [signature] 6/3/03 Building Dept. [signature] 6/3/03

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: B License No. 594228 Exp. Date: 7-31-04

Signature [signature] (Agent Mgr.)

TO ALL PERMITTEES: In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☒ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier State Fund

Policy Number 0C07094-2003

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 6/5/03 Signature [signature] (Agent Mgr.)

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil. Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

80981 FINALS [signature] 6/5/03

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA DR 2ND FLR		CONTRACTOR FIRE PROTECTION SPECIALISTS INC	
LOT	TRACT C0122120	MAILING ADDRESS 2810 MIRALOMA AVE	
PROPOSED USE		CITY ANAHEIM	STATE CA ZIP 92806
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. 7146356500	STATE LIC. NO. 464915
OWNER Jacobs Eng'r	TEL.	STATE LIC. CLASS C-16	CITY BUS. LIC.
MAILING ADDRESS		ARCHITECT OR ENGINEER	
CITY	STATE ZIP	STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION RELOCATE / ADD (21) FIRE SPRS			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL / LOT SIZE
lobby				LIMITED TIME USE FROM	LIMITED TIME USE TO
				AREA SQ. FT.	NO. STORIES / ROOF COVERING / FENCING – LIN. FT.
				VALUATION 4000 —	

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20		.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS	NO		.035 Sq./Ft		TEMP. POWER POLES			15.00	
MOTORS OVER INC. HP 1/6	NO - 1		3.00		ADDITIONAL SUPPORT POLES			7.50	
00*17	1-00-666-11-0795		7.50		MISC.			11.00	
00*017	10-00-666-11-0797		15.00		SUPPLEMENTARY PERMIT			4.50	
00*17	11-666-11-0795				PERMIT FEE			15.00	
								TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11		BUILDING PERMIT FEE		45.00
ENERGY PLAN CHECK		S. B. 1374 (1 or 2)	2001-11	.50
MECHANICAL/PLUMBING PLAN CHK.		PLUMBING PERMIT	3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT	3201-11	
ADMINISTRATIVE FEE	29.25	ELECTRICAL PERMIT	3202-11	
		TOTAL AMOUNT DUE		45.50

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

Signature of Permitee Robert Glenn Building Dept. [illegible] 10/11/04

PERMIT NUMBER 83463

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

	72.52 10/11/04 45.50 0.02

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: _____ License No. _____ Exp. Date: _____

Signature _____

***TO ALL PERMITTEES:** In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier _____

Policy Number _____

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: _____ Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS _____

EXPIRED
AUG 23 2007
CITY OF CYPRESS
BUILDING DIVISION

(34)

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA DR.		CONTRACTOR HARUNE ENTERPRISES	
LOT	TRACT	MAILING ADDRESS 3210 S. SUSAN STREET	
PROPOSED USE		CITY SANTA ANA	STATE CA ZIP 92704
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. 714 751 0274	STATE LIC. NO. 594228
OWNER REEF	TEL.	STATE LIC. CLASS B	CITY BUS. LIC.
MAILING ADDRESS 1301 DOVE ST SUITE 575		ARCHITECT OR ENGINEER	
CITY NEWPORT BEACH	STATE CA ZIP 92660	STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION BUILD TRASH INCLOSER 6' HIGH MASSONRY WITH STEEL DOORS (within parking lot)			PLANNING DEPT. APPROVAL KW	ENGINEERING DEPT. APPROVAL ED / LOT SIZE
				LIMITED TIME USE FROM	LIMITED TIME USE TO
				AREA SQ. FT.	NO. STORIES / ROOF COVERING / FENCING -- LIN. FT.
				VALUATION 2500	

City Std B-6

5665

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL $				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20		.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft		TEMP. POWER POLES			15.00	
MOTORS OVER INC. HP	0 - 1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1 - 10		7.50		MISC.			11.00	
	10 - 50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
								TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3820-11		BUILDING PERMIT FEE	3200-11	54.00
ENERGY PLAN CHECK		S. B. 1374 (1 or 2)	2001-11	.53
MECHANICAL/PLUMBING PLAN CHK.		PLUMBING PERMIT	3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT	3201-11	
ADMINISTRATIVE FEE	35.10	ELECTRICAL PERMIT	3202-11	
		TOTAL AMOUNT DUE		89.63

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am *properly* registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

Signature of Permitee _____ Building Dept. OSWKA 2-19-03

PERMIT NUMBER 80495

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 rev. 5-98 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: B License No. 594228 Exp. Date: _____

Signature _____

TO ALL PERMITTEES: In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdictions copy of the Workers' Compensation insurance policy.

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier STATE FUND

Policy Number 048

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 2-19-03 Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings 3/7/03 D. Granchette
Grout/Steel 3/20/03 D. Granchette
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

80495 FINALS 4/22/03

31.46 + 50

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630

JOB ADDRESS 5665 PLAZA DR.		CONTRACTOR TO BE DECIDED LATER	
LOT	TRACT	MAILING ADDRESS P.O. BOX 90216	
PROPOSED USE CORRIDOR + RESTROOM EXISTING		CITY San Diego	STATE CA ZIP 92138
NEW / ADD / ALTER (ALTER) / REPAIR / DEMOLISH / SPECIAL		TEL 619-297-4156	STATE LIC. NO. B 184531
OWNER R.R.E.E.F.	TEL 949 724 8958	STATE LIC. CLASS B	CITY BUS. LIC.
MAILING ADDRESS 4041 MACARTHUR		ARCHITECT OR ENGINEER	
CITY NEWPORT BEACH STATE CA ZIP		STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE 3	GROUP B	TYPE CONST. V	DATE 9-8-04	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE CP	JOB DESCRIPTION Tenant Improvement (elevator lobby & corridor)			PLANNING DEPT. APPROVAL KW	ENGINEERING DEPT. APPROVAL MR		LOT SIZE
				LIMITED TIME USE FROM		LIMITED TIME USE TO	
				AREA SQ. FT. 3459	NO. STORIES	ROOF COVERING	FENCING -- LIN. FT.
				VALUATION 121,000			

PLUMBING/HEATING

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING	$			HEATING	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL			3107-11-999-99	HEATING TOTAL $		31.46

ELECTRICAL PERMIT

3107-11-999-99 50.00

ITEM		NO.	EACH	FEE
OUTLETS: OLS	1 to 20	✓	.75	
	OVER 20	✓	.45	
LIGHTING FIXTURES		✓	.75	
RANGE-OVEN-GAR. DISP.			3.00	
DISHWASHER-KIT. FAN			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft	
MOTORS OVER INCL HP	0 - 1		3.00	
	1 - 10		7.50	
	10 - 50		15.00	

ITEM			NO.	EACH	FEE
		3200-11-999-99		713.00	
EACH METER	SERVICE 0-600V NOT OVER 200A	999-99		18.50	25.41
	SERVICE 600V OVER 200A		GR	37.50	10/05/04
PANEL BOARD			CK	11.00	319.87
SWIM POOL/SPA				30.00	319.87 PD
TIME CLOCK				3.00	
SIGNS	NO. TRANS OR BALS.			15.00	
	NO. LAMPS			3.00	
TEMP. POWER				15.00	
ADDITIONAL SUPPORT POLES				7.50	
MISC.				11.00	
SUPPLEMENTARY PERMIT				4.50	
PERMIT FEE				15.00	
				TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	463.45	BUILDING PERMIT FEE	713.00
ENERGY PLAN CHECK	178.25	S. B. 1374 (1 or 2) 2001-11	25.41
MECHANICAL/PLUMBING PLAN		PLUMBING PERMIT	
ELECTRICAL PLAN CHECK	106.95	HEATING PERMIT	
ADMINISTRATIVE FEE		ELECTRICAL PERMIT 3202-11	
	748.65	TOTAL AMOUNT	738.41

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

Signature of Permitee _____ Building Dept. Otsuka 9/14/04

PERMIT NUMBER 034339

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: B License No. 184531 Exp. Date: 7/31/05

Signature _____

TO ALL PERMITTEES: *In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☑ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier American Zurich Insurance

Policy Number WC 3676619-01

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500].)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: _____ Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing 10/6/04
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS _____

EXPIRED
P - 9 2005
CITY OF CYPRESS
BUILDING DIVISION

(160

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA DR STE 110 & CORRIDOR		CONTRACTOR SIMPLEX GRINNELL	
LOT	TRACT	MAILING ADDRESS 1701 W. SEQUOIA AVE	
PROPOSED USE		CITY ORANGE CA.	STATE CA. ZIP 92868
NEW / ADD / ALTER ✓ / REPAIR / DEMOLISH / SPECIAL		TEL (714) 870-1010 x 772	STATE LIC. NO. 802591
OWNER Sony (Sam)	TEL (949) 279-8733	STATE LIC. CLASS C-16	CITY BUS. LIC. 027716-L
MAILING ADDRESS		ARCHITECT OR ENGINEER	
CITY	STATE ZIP	STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION: Fire Sprinklers			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL / LOT SIZE
				LIMITED TIME USE FROM	LIMITED TIME USE TO
				AREA SQ. FT. / NO. STORIES	ROOF COVERING / FENCING -- LIN. FT.
				VALUATION $6150	

SR - 128138

5665 Plaza Ste 110

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20		.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft		TEMP. POWER POLES			15.00	
MOTORS OVER INC. HP	0 - 1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1 - 10		7.50		MISC.			11.00	
	10 - 50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
								TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	8	BUILDING PERMIT FEE	90.00
ENERGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	1.29
MECHANICAL/PLUMBING PLAN CHK.		PLUMBING PERMIT 3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT 3201-11	
ADMINISTRATIVE FEE	58.50	ELECTRICAL PERMIT 3202-11	
		TOTAL AMOUNT DUE	91.29

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

Signature of Permitee _____ Building Dept. 7/20/05

PERMIT NUMBER 84985

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 rev. 5-98 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C-16 License No. 802591 Exp. Date: 12-31-05

Signature: _____

TO ALL PERMITTEES: *In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier AMERICAN HOME ASSURANCE

Policy Number RMWC 5898786

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection purposes.

Date: 7-20-05 Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS 8/16/05

FIRE DEPT. 8/16/05

30.92 (34)

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630

JOB ADDRESS 5665 PLAZA Drive		CONTRACTOR Roel CONSTRUCTION	
LOT	TRACT Ste 110	MAILING ADDRESS 2500 MICHELSON DR SUITE 300	
PROPOSED USE Commercial		CITY Irvine	STATE CA ZIP 92612
NEW / ADD / ALTER X / REPAIR / DEMOLISH / SPECIAL		TEL. 949-221-0363	STATE LIC. NO 184531
OWNER RREEF - MARK ZEHNER	TEL 949-833-2033	STATE LIC. CLASS B1	CITY BUS. LIC.
MAILING ADDRESS 18581 Von KARMAN		ARCHITECT OR ENGINEER SHLemmer-ALGAZE ASSOC	
CITY Irvine	STATE CA ZIP 92612	STATE LIC. NO.	TEL. 949-724-8958

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST. II FR	DATE	FRONT YARD	RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION Tenant Improvement (office)	PLANNING DEPT. APPROVAL KW	ENGINEERING DEPT. APPROVAL MA	LOT SIZE	
		LIMITED TIME USE FROM	LIMITED TIME USE TO		
		AREA SQ. FT. 3398	NO. STORIES	ROOF COVERING	FENCING -- LIN. FT.
		VALUATION $118,930			

PLUMBING/HEATING

NO.	ITEM		AMOUNT
	WATER CLOSET	6.00	
	BATH TUB	6.00	
	SHOWER	6.00	
	LAVATORY	6.00	
1	SINK	6.00	6.00
	DISHWASHER	6.00	
	LAUNDRY TUB	6.00	
	CLOTHES WASHER	6.00	
	FLOOR DRAIN	6.00	
	FLOOR SINK	6.00	
	MISC.	6.00	
	MISC.	6.00	
	MISC.	6.00	

NO.	ITEM		AMOUNT
1	WATER HEATER	7.50	7.50
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5	.75	
	VACUUM BREAKER	7.50	
1	INSTALL OR ALTER WATER SYSTEM	3.00	3.00
	INSTALL OR ALTER WASTE OR VENTS	3.00	
	HOUSE SEWER	45.00	
	CONNECT ADD. H.S.	3.00	
	P-TRAP POOL DRN.	6.00	
	SEWER CAP	6.00	
1	PLUMBING PERMIT	15.00	15.00
	PLUMBING	$	31.50
	PLUMBING/HEATING TOTAL		

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	9.00	
	OVER 100M	11.00	
2	DUCT ALT. or ADD	6.50	13.00
	KITCHEN-BATH VENT	4.50	
	COMM. HOOD	6.50	
2	A.C. UNIT EVAP	9.00	18.00
	WALL FURNACE	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5 COST EACH	.75	
	EVAP 1 - 10M	6.50	
	EVAP OVER 10M	11.00	
	HEATING	15.00	15.00
	HEATING TOTAL $		46.00

5665 Plaza Dr

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20	20	.75	15.00
	OVER 20	27	.45	12.15
LIGHTING FIXTURES		42	.75	31.50
RANGE-OVEN-GAR. DISP.		1	3.00	3.00
DISHWASHER-KIT. FAN			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.00	
	1 - 10		7.50	
	10 - 50		15.00	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	SERVICE 600V OVER 200A		37.50	
PANEL BOARD			11.00	
SWIM POOL/SPA			30.00	
TIME CLOCK			3.00	
SIGNS	NO. TRANS OR BALS.		15.00	
	NO. LAMPS		3.00	
TEMP. POWER			15.00	
ADDITIONAL SUPPORT POLES			7.50	
MISC.			11.00	
SUPPLEMENTARY PERMIT			4.50	
PERMIT FEE		1	15.00	15.00
			TOTAL FEE $	76.65

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	458.90
ENERGY PLAN CHECK	176.50
MECHANICAL/PLUMBING PLAN	105.90
ELECTRICAL PLAN CHECK	105.90
ADMINISTRATIVE FEE	
	847.20

BUILDING PERMIT FEE	706.00
S. B. 1374 (1 or 2) 2001-11	24.98
PLUMBING PERMIT	31.50
HEATING PERMIT	46.00
ELECTRICAL PERMIT, T3202-11	76.65
TOTAL AMOUNT	885.13

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

Signature of Permitee Zayd W Ronfa Building Dept. OSHA 7-13-05

PERMIT NUMBER 84933

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

7-13-05 847.20

7-13-05 76.65

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: B License No. 784531 Exp. Date: 02/31/05

Signature Troy W Renfroe

***TO ALL PERMITTEES:** In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.*

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: 5665 Plaza Dr.

Permit No. 84933 Issuance Date 09-13-05

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☑ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier Zurich - American

Policy Number WC 3676619-02

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: _____ Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☒ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☒ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME Troy Renfroe

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P: _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work J Watson 7/21/05
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. J Watson 7/21/05
Ducts _____
R.Elect. J Watson
Conduit _____
Framing 7/19/05
Sewer _____
Insulation J Watson 7/27/05
Drywall J Watson 8/1/05
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS 8/14/05

FIRE 8/18/05

187200

110.76 +50 (34)

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630

JOB ADDRESS 5665 Plaza Drive 2nd Floor		CONTRACTOR Reel Construction	
LOT	TRACT	MAILING ADDRESS Po Box 80216	
PROPOSED USE Office		CITY San Diego	STATE CA ZIP 92138
NEW — ADD — ALTER 21,000sf REPAIR DEMOLISH SPECIAL		TEL. 619-297-8500	STATE LIC. NO. 484531
OWNER Jacobs (Paul Lorenzo) TEL. 714-903-3420		STATE LIC. CLASS B	CITY BUS. LIC. 0-036862-6
MAILING ADDRESS 5757 Plaza Drive		ARCHITECT OR ENGINEER	
CITY Cypress STATE CA ZIP 90630		STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL
	tenant improvement incl. modular partitions			LIMITED TIME USE FROM	LIMITED TIME USE TO
				AREA SQ. FT. 21,000	NO. STORIES
				VALUATION ~~700,000~~ 426,000	

LEFT SIDE YARD	REAR YARD
	LOT SIZE
ROOF COVERING	FENCING -- LIN. FT.

5665 Plaza

PLUMBING/HEATING

NO.	ITEM		AMOUNT
	WATER CLOSET	6.00	
	BATH TUB	6.00	
	SHOWER	6.00	
	LAVATORY	6.00	
	SINK	6.00	
	DISHWASHER	6.00	
	LAUNDRY TUB	6.00	
	CLOTHES WASHER	6.00	
	FLOOR DRAIN	6.00	
	FLOOR SINK	6.00	
	MISC.	6.00	
	MISC.	6.00	
	MISC.	6.00	

NO.	ITEM		AMOUNT
	WATER HEATER	7.50	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5	.75	
	VACUUM BREAKER	7.50	
	INSTALL OR ALTER WATER SYSTEM	3.00	
	INSTALL OR ALTER WASTE OR VENTS	3.00	
	HOUSE SEWER	45.00	
	CONNECT ADD. H.S.	3.00	
	P-TRAP POOL DRN.	6.00	
	SEWER CAP	8.00	
	PLUMBING PERMIT	15.00	
	PLUMBING	$	
	PLUMBING/HEATING TOTAL		

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	9.00	
	OVER 100M	11.00	
	DUCT ALT. or ADD	6.50	
	KITCHEN-BATH VENT	4.50	
	COMM. HOOD	6.50	
	A.C. UNIT	9.00	
	WALL FURNACE	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5 COST EACH	.75	
	EVAP 1 - 10M	6.50	
	EVAP OVER 10M	11.00	
	HEATING	15.00	
	HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75	
	OVER 20		.45	
LIGHTING FIXTURES			.75	
RANGE-OVEN-GAR. DISP.			3.00	
DISHWASHER-KIT. FAN			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.00	
	1 - 10		7.50	
	10 - 50		15.00	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	SERVICE 600V OVER 200A 2001-11-999-99		37.50	1 007.40
PANEL BOARD	2001-11-999-99		11.00	99.44
SWIM POOL/SPA	3107-11-999-99		30.00	110.74
TIME CLOCK	3107-11-999-99		3.00	50.00
SIGNS	NO. TRANS OR BALS 3107-11-999-99		15.00	40.00
	NO. LAMPS	68	3.00	204.00
TEMP. POWER		CK	15.00	207.42
ADDITIONAL SUPPORT POLES			7.50	207.42
MISC.			11.00	
SUPPLEMENTARY PERMIT			4.50	
PERMIT FEE			15.00	
			TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	1715.68	BUILDING PERMIT FEE	2639.50 ~~1007.40~~
ENERGY PLAN CHECK	659.88	S. S. 1374 (1 or 2) 2001-11	~~47.00~~ 89.46
MECHANICAL/PLUMBING PLAN	by separate submittal	PLUMBING PERMIT	
ELECTRICAL PLAN CHECK		HEATING PERMIT	
ADMINISTRATIVE FEE	11	ELECTRICAL PERMIT 3202-11	
	2375.56 adjusted amount 773.10	TOTAL AMOUNT	1096.86

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

Signature of Permitee _____ Building Dept. _____ 9/14/04

PERMIT NUMBER 83332

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: B License No. 184531 Exp. Date: 7-31-05

Signature _____

TO ALL PERMITTEES: In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: 5665 PLAZA DR 2nd Floor

Permit No. 83332 Issuance Date 9-14-04

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☑ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier BARNEY & BARNEY LLC

Policy Number 98950

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 9/14 Signature _____

City License O-0368626

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing JWA 9/25/04
Sewer _____
Insulation _____
Drywall JWA 9/28/04
Ext. Lath _____
Sc. Coat _____
T-Bar JWA 10/6/04
Gas Test _____

FINALS _____

9/23/04 Partial frame electrical offices. JWA

9/24/04 Partial drywall JWA

EXPIRED
P - 9 26 05
CITY OF CYPRESS
BUILDING DIVISION

(34) (787)

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Ave. Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 Plaza Drive #200		CONTRACTOR JOHNSTON & ASSOCIATES	
LOT	TRACT	MAILING ADDRESS 1035 ARMANDO STREET #F	
PROPOSED USE OFFICE		CITY ANAHEIM	STATE CA ZIP 92806
NEW / ADD / ALTER X / REPAIR / DEMOLISH X / SPECIAL		TEL. (714) 632-1563	STATE LIC. NO. 551932
OWNER L A CELLULAR	TEL. 310-924-0000	STATE LIC. CLASS	CITY BUS. LIC. 029412
MAILING ADDRESS 17785 CENTER COURT DRIVE NORTH		ARCHITECT OR ENGINEER OR DESIGNER DMA	
CITY CERRITOS	STATE CA ZIP 90701	STATE LIC. NO.	TEL. (714) 752-1150

BUILDING PERMIT

FIRE ZONE	GROUP B2	TYPE CONST. II FR	DATE 11/15/94	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION ~~Commercial T.I.~~			PLANNING DEPT APPROVAL	ENGINEERING DEPT APPROVAL		LOT SIZE
demo of INT. PARTITIONS FOR SUITE 200.				LIMITED TIME USE FROM		LIMITED TIME USE TO	
				AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING-- LIN. FT.
				VALUATION 9711-		BUILDING PERMIT AMOUNT	

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5 COST EACH	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	6.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP OR POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL $				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20		.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO.TRANS. OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft.		TEMP. POWER POLE			15.00	
MOTORS OVER INC. HP	0-1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1-10		7.50		MISC.			11.00	
	10-50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
								TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	0	BUILDING PERMIT FEE 3200-11	37.00
ENRGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	.50
MECHANICAL/PLUMBING PLAN CHECK		PLUMBING PERMIT 3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT 3201-11	
		ELECTRICAL PERMIT 3202-11	
		TOTAL AMOUNT DUE	37.50

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinance and State laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

Signature of Permittee Douglas Burrough Building Dept. Osuka 11/30/94

PERMIT NUMBER 65908

~~3200-11-777-99~~ 37.00

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT AMOUNT ARE IMPRINTED BELOW.

CK 38.00

$38.00 FD

B-1 Rev. 4-88 Distribution of Copies: White--Inspector's Copy, Canary--Building Permit Receipt, Pink--Cashier's Copy, Goldenrod--Cashier's Copy.

LICENSED DECLARATION
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class B License No. 551932

Exp. Date 12/31/94 Signature Douglas A Burrough

WORKERS' COMPENSATION DECLARATION
I hereby affirm that I have a certificate of consent to self-insure or a certificate of Workers Compensation Insurance, or a certified copy thereof (Section 3800, Lab.C.)

Policy No. _____ Company _____

☐ Certified Copy is hereby furnished Exp. Date _____

☐ Certified copy is filed with the city building division.

EXEMPTION FROM WORKERS' COMPENSATION DECLARATION
(This section need not be completed if the permit is for one hundred dollars ($100) or less.) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers Compensation Laws of California.

Date _____ Signature _____

NOTICE: If after making this declaration, you should become subject to the Workers Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY
I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Section 3097 Civ.C).

Lender's Name _____

Lender's Address _____

OWNER BUILDER DECLARATION
I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit subject to the applicant to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvement are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.).

☐ I am exempt under Section _____ B.&P.C. for this reason

Date _____ Owner _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Signature Douglas A Burrough Date 11/30/94

City License 02 02 94 12 - L

INSPECTION RECORD

Temporary Power Pole _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Ground Work _____
Underground Electric _____
Slab _____
Floor Joists _____
Gas Lines _____
Roof Sheathing _____
Rough Plumbing _____
Plenum & Ducts _____
Rough Electrical _____
Electrical Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
T-Bar _____
Gas Test _____

FINALS 3/9/95 J. Watson

Fire x E. Dees 3/8/95 J.W.

65908

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO **WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR A MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?**

☐ YES ☐ NO **WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) SEE PERMITTING CHECKLIST FOR GUIDELINES.**

PRINT NAME: _____

☐ YES ☐ NO **WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?**

☐ YES ☐ NO ***I HAVE READ THE HAZARDOUS MATERIAL INFORMATION GUIDE AND THE SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH & SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.***

OWNER OR AUTHORIZED AGENT X _____

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Ave. Cypress, CA 90630 Phone (714) 229-6730

NOTARIZED AUTHORIZATION MAY BE REQUIRED

JOB ADDRESS	5665 PLAZA DR STE 200					CONTRACTOR	INDECOM, ENG		
LOT		TRACT				MAILING ADDRESS	621 "B" ST		
PROPOSED USE						CITY	TUSTIN	STATE Ca	ZIP 92681
NEW	ADD X	ALTER	REPAIR	DEMOLISH	SPECIAL	TEL. (714) 731-0920		STATE LIC. NO. [redacted]472023	
OWNER	LA CELLULAR	TEL.				STATE LIC. CLASS	C-16	CITY BUS. LIC.	026982
MAILING ADDRESS	5665 PLAZA DR STE 200					ARCHITECT OR ENGINEER			
CITY	Cypress	STATE Ca	ZIP 90630			STATE LIC. NO.		TEL.	

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE 12-21-94	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION T.I.			PLANNING DEPT APPROVAL	ENGINEERING DEPT APPROVAL		LOT SIZE
ADDITION OF 14 FIRE SPRINKLER HEADS				LIMITED TIME USE FROM		LIMITED TIME USE TO	
				AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING-- LIN. FT.
				VALUATION $ 8500		BUILDING PERMIT AMOUNT	

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP OR POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL $				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20		.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS. OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft.		TEMP. POWER POLE			15.00	
MOTORS OVER INC. HP	0-1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1-10		7.50		MISC.			11.00	
	10-50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
					TOTAL FEE $				

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	70.20	BUILDING PERMIT FEE 3200-11	108.00
ENRGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	1.79
MECHANICAL/PLUMBING PLAN CHECK		PLUMBING PERMIT 3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT 3201-11	
ADMINISTRATIVE FEE		ELECTRICAL PERMIT 3202-11	
		TOTAL AMOUNT DUE	109.79

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinance and State laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 6d458

Signature of Permittee [signature] Building Dept. [signature] 2-23-95

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT AMOUNT ARE IMPRINTED BELOW.

3620-11-999-99	70.20	
JR 6246 12/21/94	70.20	
CK	70.20	
	70.20	

rev. 2-93 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C-16 License No. 472023 Exp. Date: 4-30-95

Signature [signature]

WORKER'S COMPENSATION DECLARATION: I hereby affirm that I have a certificate of consent to self-insure or a Certificate of Workers' Compensation Insurance, or a certified copy thereof (Section 3800, Lab C.)

Policy No: WC1002 0412B Exp. Date: 8/1/95

Company Name: _____

☐ Certified Copy is hereby furnished. ☐ Certified Copy is filed with the city building division.

EXEMPTION FROM WORKERS' COMPENSATION DECLARATION: (This section need not be completed if the permit is for one hundred dollars ($100) or less.) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

Date: _____ Signature: _____

NOTICE: If after making this declaration, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY: I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Section 3097, Civ. C.)

Lender's Name: _____

Lender's Address: _____

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P.C. for this reason.

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 2/23/95 Signature [signature]

City License: _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL INFORMATION GUIDE AND THE SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent: _____

INSPECTION RECORD

Temporary Power Pole _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Pre-Grout - Wall Steel _____
Ground Work _____
Underground Electric _____
Slab _____
Floor Joists _____
Pre-roof _____
Roof Sheathing _____
In-progress _____
Rough Plumbing _____
Plenum & Ducts _____
Rough Electrical _____
Electrical Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Exterior Lath _____
Scratch Coat _____
T-Bar _____
Gas Test _____

FINALS 3/9/95 J. Watson

Fire E. Dear 3/8/95 J.W.

66458

BP#660071 / L.A. CELLULAR

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Ave. Cypress, CA 90630 Phone (714) 229-6730

NOTARIZED AUTHORIZATION MAY BE REQUIRED

JOB ADDRESS 5665 PLAZA DR. SUITE #200		CONTRACTOR BRIGGS ELECTRIC	
LOT	TRACT	MAILING ADDRESS 16662 MILLIKAN AVE	
PROPOSED USE COMMERCIAL OFFICE		CITY IRVINE	STATE CA ZIP 92714
NEW / ADD / ALTER X / REPAIR / DEMOLISH / SPECIAL		TEL. 714 863 9901	STATE LIC. NO 297836 C10
OWNER L.A. CELLULAR TEL 310-924-0000		STATE LIC. CLASS C10	CITY BUS. LIC 0-018478-L
MAILING ADDRESS 17785 CENTER COURT DR.		ARCHITECT OR ENGINEER DHA	
CITY CERRITOS STATE CA ZIP 90701		STATE LIC. NO.	TEL 714 752-1150

BUILDING PERMIT

FIRE ZONE	GROUP B2	TYPE CONST. VFR	DATE 2/22/94	FRONT YARD	RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT APPROVAL	ENGINEERING DEPT APPROVAL / LOT SIZE
	COMMERCIAL TENANT IMPROVEMENT			LIMITED TIME USE FROM	LIMITED TIME USE TO
				AREA SQ. FT.	NO. STORIES / ROOF COVERING / FENCING--LIN. FT.
	FIRE ALARM SYSTEM			VALUATION 10,000-	BUILDING PERMIT AMOUNT

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP OR POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL $				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20		.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS. OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft.		TEMP. POWER POLE			15.00	
MOTORS OVER 1HC. HP	0-1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1-10		7.50		MISC.			11.00	
	10-50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
								TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	76.05	BUILDING PERMIT FEE	3200-11	117.00
ENRGY PLAN CHECK		S. B. 1374 (1 or 2)	2001-11	2.10
MECHANICAL/PLUMBING PLAN CHECK		PLUMBING PERMIT	3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT	3201-11	
ADMINISTRATIVE FEE		ELECTRICAL PERMIT	3202-11	
		TOTAL AMOUNT DUE		119.10

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinance and State laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 66443

Signature of Permittee Jeff Kasperian Building Dept. Okuka 2-22-95

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT AMOUNT ARE IMPRINTED BELOW.

$76.05 Pd
76.05 CK
02/22/95 6629 JR
66-666-TT-0295

$117.00
2.10
119.10
02/22/95
241-60 FD

B-1 rev. 2-93 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C10 License No. 297836 Exp. Date: 8-31-95

Signature Jeff Kasparian

WORKER'S COMPENSATION DECLARATION: I hereby affirm that I have a certificate of consent to self-insure or a Certificate of Workers' Compensation Insurance, or a certified copy thereof (Section 3800, Lab C.)

Policy No: _____ Exp. Date: _____

Company Name: _____

☐ Certified Copy is hereby furnished. ☐ Certified Copy is filed with the city building division.

EXEMPTION FROM WORKERS' COMPENSATION DECLARATION: (This section need not be completed if the permit is for one-hundred dollars ($100) or less.) - I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

Date: _____ Signature: _____

NOTICE: If after making this declaration, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY: I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Section 3097, Civ. C.)

Lender's Name: _____

Lender's Address: _____

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P.C. for this reason.

Date: _____ *Owner:* _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 2/22/95 Signature Jeff Kasparian

City License: _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO *I HAVE READ THE HAZARDOUS MATERIAL INFORMATION GUIDE AND THE SCAQMD* PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE; SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent: _____

INSPECTION RECORD

Temporary Power Pole _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Pre-Grout - Wall Steel _____
Ground Work _____
Underground Electric _____
Slab _____
Floor Joists _____
Pre-roof _____
Roof Sheathing _____
In-progress _____
Rough Plumbing _____
Plenum & Ducts _____
Rough Electrical _____
Electrical Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Exterior Lath _____
Scratch-Coat _____
T-Bar _____
Gas Test _____

FINALS 3/9/95 J. Watson

Fire E. Pena 3/2/95 J.W

66443

78

0802

BUILDING DIVISION: PERMIT APPLICATION

City of Cypress 5275 Orange Ave. Cypress, CA 90630 Phone (714) 229-6730

NOTARIZED AUTHORIZATION MAY BE REQUIRED

JOB ADDRESS 5665 Plaza Dr. Suite 200		CONTRACTOR Pyro-Comm	
LOT	TRACT	MAILING ADDRESS 16602 Burke lane	
PROPOSED USE		CITY Huntington Bch STATE CA ZIP 92647	
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL (714) 841-5422	STATE LIC. NO. 612153
OWNER L.A. Cellular TEL.		STATE LIC. CLASS C-10	CITY BUS. LIC.
MAILING ADDRESS 5665 Plaza Dr. Suite 200		ARCHITECT OR ENGINEER Cesar Fortuno	
CITY Cypress STATE CA ZIP 90630		STATE LIC. NO. Same	TEL. Same

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION Fire alarm system			PLANNING DEPT APPROVAL	ENGINEERING DEPT APPROVAL / LOT SIZE
				LIMITED TIME USE FROM	LIMITED TIME USE TO
				AREA SQ. FT.	NO. STORIES. / ROOF COVERING / FENCING-- LIN. FT.
				VALUATION $3,000	BUILDING PERMIT AMOUNT

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER.	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP OR POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL $				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20		.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS. OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft.		TEMP. POWER POLE			15.00	
MOTORS OVER INC. HP	0-1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1-10		7.50		MISC.			11.00	
	10-50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
								TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11		BUILDING PERMIT FEE 3200-11	54.00
ENRGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	.50
MECHANICAL/PLUMBING PLAN CHECK		PLUMBING PERMIT 3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT 3201-11	
ADMINISTRATIVE FEE	35.10	ELECTRICAL PERMIT 3202-11	
		TOTAL AMOUNT DUE	~~87.60~~ 89.60

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinance and State laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 66477

Signature of Permittee Mike Orr Building Dept. Otsuka 2-28-95

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT AMOUNT ARE IMPRINTED BELOW.

02/28/95 11:19:09 0.28
02/28/95 10:54:10 40.00
02/28/95 10:25:10 35.10
02/28/95 10:25:10 54.00
02/28/95 10:25:10 0.50
02/28/95 10:25:10 0.28

B-1 rev. 2-93 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C-10 License No. 612153 Exp. Date: 2-28-95

Signature Mike Cook

WORKER'S COMPENSATION DECLARATION: I hereby affirm that I have a certificate of consent to self-insure or a Certificate of Workers' Compensation Insurance, or a certified copy thereof (Section 3800, Lab C.)

Policy No: _____ Exp. Date: _____

Company Name: _____

☐ Certified Copy is hereby furnished. ☐ Certified Copy is filed with the city building division.

EXEMPTION FROM WORKERS' COMPENSATION DECLARATION: (This section need not be completed if the permit is for one hundred dollars ($100) or less.) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

Date: _____ Signature: _____

NOTICE: If after making this declaration, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY: I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Section 3097, Civ. C.)

Lender's Name: _____

Lender's Address: _____

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P.C. for this reason.

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: _____ Signature X Mike Cook

City License: _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL INFORMATION GUIDE AND THE SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent: _____

INSPECTION RECORD

Temporary Power Pole _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Pre-Grout - Wall Steel _____
Ground Work _____
Underground Electric _____
Slab _____
Floor Joists _____
Pre-roof _____
Roof Sheathing _____
In-progress _____
Rough Plumbing _____
Plenum & Ducts _____
Rough Electrical _____
Electrical Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Exterior Lath _____
Scratch Coat _____
T-Bar _____
Gas Test _____

FINALS 3/9/95 J. Watson

Fire E Dept 3/9/95 J.L.

66477

35.10

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Ave. Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA DRIVE #200		CONTRACTOR JOHNSTON & ASSOCIATES	
LOT	TRACT	MAILING ADDRESS 1035 ARMANDO ST. STE. #F.	
PROPOSED USE OFFICE		CITY ANAHEIM	STATE CA ZIP 92806
NEW / ADD / ALTER X / REPAIR / DEMOLISH / SPECIAL		TEL. 714-632-1563	STATE LIC. NO. 551932
OWNER L A CELLULAR TEL. 310 924-0000		STATE LIC. CLASS B	CITY BUS. LIC.
MAILING ADDRESS 17785 CENTER COURT DRIVE NORTH		~~ARCHITECT OR ENGINEER~~ DESIGNER DMA	
CITY CERRITOS	STATE Ca. ZIP 90701	STATE LIC. NO.	TEL. (714) 752-1150

BUILDING PERMIT

FIRE ZONE	GROUP B2	TYPE CONST. II FR	DATE 11/22/94	FRONT YARD	RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT APPROVAL KPalmer	ENGINEERING DEPT APPROVAL JK / LOT SIZE
COMMERCIAL TENANT IMPROVEMENT				LIMITED TIME USE FROM	LIMITED TIME USE TO 6/1/01
				AREA SQ. FT.	NO. STORIES / ROOF COVERING / FENCING--LIN. FT.
				VALUATION [illegible]	BUILDING PERMIT AMOUNT

5665 PLAZA Dr.

PLUMBING/HEATING PERMIT 135,000

NO.	ITEM		AMOUNT
	WATER CLOSET	6.00	
	BATH TUB	6.00	
	SHOWER	6.00	
	LAVATORY	6.00	
1	SINK	6.00	6.00
	DISHWASHER	6.00	
	LAUNDRY TUB	6.00	
	CLOTHES WASHER	6.00	
	FLOOR DRAIN	6.00	
	FLOOR SINK	6.00	
1	MISC. CONDENSATE DRAIN	6.00	6.00
	MISC.	6.00	
	MISC.	6.00	

NO.	ITEM		AMOUNT
1	WATER HEATER	7.50	7.50
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5 COST EACH	.75	
	VACUUM BREAKER	7.50	
	INSTALL OR ALTER WATER SYSTEM	3.00	
	INSTALL OR ALTER WASTE OR VENTS	3.00	
	HOUSE SEWER	45.00	
	CONNECT ADD. H.S.	3.00	
	P-TRAP OR POOL DRN.	6.00	
	SEWER-CAP	6.00	
	PLUMBING PERMIT	15.00	
	PLUMBING TOTAL $		19.50
	PLUMBING/HEATING TOTAL $		103.00

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	9.00	
	OVER 100M	11.00	
8	DUCT ALT. or ADD	6.50	52.00
1	KITCHEN-BATH VENT	4.50	4.50
	COMM. HOOD	6.50	
3	A.C. UNIT	9.00	27.00
	WALL FURNACE	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5 COST EACH	.75	
	EVAP 1 - 10M	6.50	
	EVAP OVER 10M	11.00	
	HEATING PERMIT	15.00	
	HEATING TOTAL $		83.50

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20	20	.75	15.00
	OVER 20	90	.45	40.50
LIGHTING FIXTURES		143	.75	107.25
RANGE-OVEN-GAR. DISP.			3.00	
DISHWASHER-KIT. FAN			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft.	
MOTORS OVER INC. HP	0-1	1	3.00	3.00
	1-10	3	7.50	22.50
	10-50	2	15.00	30.00
1				

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	SERVICE 600V OVER 200A		37.50	
PANEL BOARD		5	11.00	55.00
SWIM POOL/SPA			30.00	
TIME CLOCK		1	3.00	3.00
SIGNS	NO. TRANS. OR BALS.		15.00	
	NO. LAMPS		3.00	
TEMP. POWER POLE			15.00	
ADDITIONAL SUPPORT POLES			7.50	
MISC.			11.00	
SUPPLEMENTARY PERMIT			4.50	
PERMIT FEE		1	15.00	15.00
			TOTAL FEE $	291.25

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	495.30	BUILDING PERMIT FEE 3200-11	762.00
ENRGY PLAN CHECK	190.50	S. B. 1374 (1 or 2) 2001-11	28.35
MECHANICAL/PLUMBING PLAN CHECK	114.30	PLUMBING PERMIT 3201-11	103.00
ELECTRICAL PLAN CHECK	114.30	HEATING PERMIT 3201-11	83.50
ACCEL. PC	457.20	ELECTRICAL PERMIT 3202-11	291.25
	1371.60	TOTAL AMOUNT DUE	1268.10

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinance and State laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 66071

Signature of Permittee Daryl Bumgarner Building Dept. Otsuka 12-21-94

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT AMOUNT ARE IMPRINTED BELOW.

$1,371.60 PD
CK 1,371.60
JR 5675 11/22/94 1,371.60
3620-11-999-99

B-1 Rev. 4-89 Distribution of Copies: White--Inspector's Copy, Canary--Building Permit Receipt, Pink--Cashier's Copy, Goldenrod--Cashier's Copy.

LICENSED DECLARATION

I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class B License No. 551932

Exp. Date 12/31/94 Signature Douglas A Burroughs

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self-insure or a certificate of Workers Compensation Insurance, or a certified copy thereof (Section 3800, Lab.C.)

Policy No. 11134897 Company State Fund

☒ Certified Copy is hereby furnished Exp. Date 1/1/94

☒ Certified copy is filed with the city building division.

EXEMPTION FROM WORKERS' COMPENSATION DECLARATION

(This section need not be completed if the permit is for one hundred dollars ($100) or less.) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers Compensation Laws of California.

Date _____ Signature _____

NOTICE: If after making this declaration, you should become subject to the Workers Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Section 3097 Civ.C).

Lender's Name _____

Lender's Address _____

OWNER BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5. Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit subject to the applicant to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvement are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.).

☐ I am exempt under Section _____ B.&P.C. for this reason

Date _____ Owner _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Signature Douglas A Burroughs Date 12/21/94

City License _____

INSPECTION RECORD

Temporary Power Pole _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Ground Work _____
Underground Electric _____
Slab _____
Floor Joists _____
Gas Lines _____
Roof Sheathing _____
Rough Plumbing 12/27/94 J. Watson
Plenum & Ducts 1/17/95 J. Watson
Rough Electrical 12/27/94 J. Watson
Electrical Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall 12/30/94 J. Watson
Ext. Lath _____
T-Bar 1/17/95 J. Watson
Gas Test _____

Fire
E. Deer 3/8/95 J.W.

FINALS 3/9/95 J. Watson

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO **WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR A MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?**

☐ YES ☐ NO **WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) SEE PERMITTING CHECKLIST FOR GUIDELINES.**

PRINT NAME: _____

☐ YES ☐ NO **WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?**

☐ YES ☐ NO **I HAVE READ THE HAZARDOUS MATERIAL INFORMATION GUIDE AND THE SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH & SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.**

OWNER OR AUTHORIZED AGENT X _____

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Ave. Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 Plaza Dr.		CONTRACTOR KBR Electric Inc.	
LOT	TRACT	MAILING ADDRESS 355 W. Cerritos	
PROPOSED USE Office Building Elect		CITY Anaheim	STATE Ca ZIP 92805
NEW ✗ ADD ✓ ALTER REPAIR DEMOLISH SPECIAL		TEL. 535-5050	STATE LIC. NO. 469185
OWNER Shuwa Investments TEL. 213-624-5353		STATE LIC. CLASS ~~C-10~~ C-10	CITY BUS. LIC. 022825
MAILING ADDRESS 555 S. Flower st.		ARCHITECT OR ENGINEER	
CITY Los Angeles STATE Ca ZIP 90071		STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE 3 GROUP B TYPE CONST. II DATE 6-19-90		FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION	PLANNING DEPT APPROVAL	ENGINEERING DEPT APPROVAL	LOT SIZE
elect work for 5 story office		LIMITED TIME USE FROM	LIMITED TIME USE TO	
		AREA SQ. FT.	NO. STORIES	ROOF COVERING / FENCING--LIN. FT.
		VALUATION	BUILDING PERMIT AMOUNT	

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5 COST EACH	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP OR POOL DRK.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL $				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20	20	.75	15.00	EACH METER SERVICE 0-600V NOT OVER 200A			18.50	
	OVER 20	41	.45	~~225~~ 18.45	SERVICE 600V OVER 200A		2	37.50	75.00
LIGHTING FIXTURES		414	.75	310.50	PANEL BOARD		37	11.00	407.00
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK		5	3.00	15.00
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO.TRANS. OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.		1	3.00	3.00		NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft.		TEMP. POWER POLE			15.00	
MOTORS OVER INC. HP	0-1	4	3.00	12.00	ADDITIONAL SUPPORT POLES			7.50	
	1-10	3	7.50	22.50	MISC.			11.00	
	10-50	8	15.00	120.00	SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	15.00
								TOTAL FEE	~~1028.45~~ 1013.45

FEE SUMMARY

BUILDING PLAN CHECK 3620-11			BUILDING PERMIT FEE	3200-11	
ENRGY PLAN CHECK			S. B. 1374 (1 or 2)	2001-11	
MECHANICAL/PLUMBING PLAN CHECK			PLUMBING PERMIT	3201-11	
ELECTRICAL PLAN CHECK			HEATING PERMIT	3201-11	
			ELECTRICAL PERMIT	3202-11	1013.45
			TOTAL AMOUNT DUE		1013.45

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinance and State laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 55119

Signature of Permittee _____ Building Dept. Okuka 6-19-90

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT AMOUNT ARE IMPRINTED BELOW.

USA 8560 June 19 90 1,013.45

5605 PLAZA

B-1 Rev. 4-89 Distribution of Copies: White--Inspector's Copy, Canary--Building Permit Receipt, Pink--Cashier's Copy, Goldenrod--Cashier's Copy.

Released to Edison for meter: 7-23-90 [illegible]

LICENSED DECLARATION

I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class 35C-10 License No. 469185-[illegible]

Exp. Date 2-28-91 Signature [illegible]

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self-insure or a certificate of Workers Compensation Insurance, or a certified copy thereof (Section 3800, Lab.C.)

Policy No. 02-WCP-01312-B Company Pacific Rim

☐ Certified Copy is hereby furnished Exp. Date 3-12-91

☐ Certified copy is filed with the city building division.

EXEMPTION FROM WORKERS' COMPENSATION DECLARATION

(This section need not be completed if the permit is for one hundred dollars ($100) or less.) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers Compensation Laws of California.

Date _____ Signature _____

NOTICE: If after making this declaration, you should become subject to the Workers Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Section 3097 Civ.C).

Lender's Name _____

Lender's Address _____

OWNER BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit subject to the applicant to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvement are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.).

☐ I am exempt under Section _____ B.&P.C. for this reason

Date _____ Owner _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Signature [illegible] Date 6-19-90

City License 022825

INSPECTION RECORD

Temporary Power Pole _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Ground Work _____
Underground Electric _____
Slab _____
Floor Joists _____
Gas Lines _____
Roof Sheathing _____
Rough Plumbing _____
Plenum & Ducts _____
Rough Electrical _____
Electrical Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
T-Bar _____
Gas Test _____

FINALS 10-16-91

J Heer

55119

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO — WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR A MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO — WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, (SCAQMD) SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME: _____

☐ YES ☐ NO — WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO — I HAVE READ THE HAZARDOUS MATERIAL INFORMATION GUIDE AND THE SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH & SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

OWNER OR AUTHORIZED AGENT X _____

Mitsubishi - Job #172

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Ave. Cypress, CA 90630 Phone (714)229-6730

JOB ADDRESS	5665 Plaza Drive, Cypress, CA.90630					CONTRACTOR	Pacific Rim Mechanical Contrs., Inc.
LOT		TRACT				MAILING ADDRESS	5540 Riley Street
PROPOSED USE	Office Building					CITY	San Diego STATE CA ZIP 92110
NEW XX	ADD	ALTER	REPAIR	DEMOLISH	SPECIAL	TEL.	619/692-0066 STATE LIC. NO. 513014
OWNER	Shuwa Investments Co. TEL. 213/489-275					STATE LIC. CLASS	C-4,C-20-C-36 BUS. LIC. 0-024874-LC
MAILING ADDRESS	555 South Flower St., 40th Fl.					ARCHITECT OR ENGINEER	DeRevere Partnership
CITY	Los Angeles STATE CA ZIP 90071					STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT APPROVAL	ENGINEERING DEPT APPROVAL		LOT SIZE
	Shell			LIMITED TIME USE FROM		LIMITED TIME USE TO	
				AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING-- LIN. FT.
				VALUATION		BUILDING PERMIT AMOUNT	

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
35	WATER CLOSET	6.00	210.	1	WATER HEATER	7.50	7.50		F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5 COST EACH	.75			DUCT ALT. or ADD	6.50	
40	LAVATORY	6.00	240.		VACUUM BREAKER	7.50		2	KITCHEN-BATH VENT	4.50	9.00
5	SINK	6.00	30.	1	INSTALL OR ALTER WATER SYSTEM	3.00	3.00		COMM. HOOD	6.50	
	DISHWASHER	6.00		1	INSTALL OR ALTER WASTE OR VENTS	3.00	3.00	1	A.C. UNIT	9.00	9.00
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
11	FLOOR DRAIN	6.00	66.		P-TRAP OR POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
1	FLOOR SINK	6.00	6.		SEWER CAP	6.00			EVAP 1 - 10M	6.50	
15	MISC. Urinal	6.00	90.	1	PLUMBING PERMIT	15.00	15.00		EVAP OVER 10M	11.00	
5	MISC. Drink.	6.00	30.		PLUMBING TOTAL $		~~700.50~~ 694.50	1	HEATING PERMIT	15.00	15.00
	MISC. Fount.	6.00			PLUMBING/HEATING TOTAL $		~~727.50~~		HEATING TOTAL $		33.00

ELECTRICAL PERMIT 733.50

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20		.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO.TRANS. OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft.		TEMP. POWER POLE			15.00	
MOTORS OVER INC. HP	0-1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1-10		7.50		MISC.			11.00	
	10-50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
								TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11			BUILDING PERMIT FEE	3200-11	
ENRGY PLAN CHECK			S. B. 1374 (1 or 2)	2001-11	
MECHANICAL/PLUMBING PLAN CHECK			PLUMBING PERMIT	3201-11	700.50
ELECTRICAL PLAN CHECK			HEATING PERMIT	3201-11	33.00
			ELECTRICAL PERMIT	3202-11	
			TOTAL AMOUNT DUE		733.50

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinance and State laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 55168

Signature of Permittee James T. Broyles, President Building Dept. Otsuka 6-26-90

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT AMOUNT ARE IMPRINTED BELOW.

	2[illegible]788 June DAE 733.50 CK

B-1 Rev. 4-89 Distribution of Copies: White--Inspector's Copy, Canary--Building Permit Receipt, Pink--Cashier's Copy, Goldenrod--Cashier's Copy.

LICENSED DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class C-4;C-20;C-36 License No. 0-024874-L

Exp. Date June 30, 1990 Signature James T. Broyles, Pres.

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self-insure or a certificate of Workers Compensation Insurance, or a certified copy thereof (Section 3600, Lab.C.)

Policy No. WSD0792902 Company Insur.Co.of The West

☐ Certified Copy is hereby furnished Exp. Date 5/18/91

☐ Certified copy is filed with the city building division.

EXEMPTION FROM WORKERS' COMPENSATION DECLARATION

(This section need not be completed if the permit is for one hundred dollars ($100) or less.) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers Compensation Laws of California.

Date _____ Signature _____

NOTICE: If after making this declaration, you should become subject to the Workers Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Section 3097 Civ.C).

Lender's Name N/A

Lender's Address N/A

OWNER BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit subject to the applicant to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvement are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.).

☐ I am exempt under Section _____ B.&P.C. for this reason

Date _____ Owner _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Signature James T. Broyles, Pres. Date 6/18/91

City License 0-024874-L

INSPECTION RECORD

Temporary Power Pole	
Setbacks	
Soil Work	
Uffer	
Footings	
Ground Work	6-26-90 J-H
Underground Electric	
Slab	
Floor Joists	
Gas Lines	
Roof Sheathing	
Rough Plumbing	
Plenum & Ducts	
Rough Electrical	
Electrical Conduit	
Framing	
Sewer	
Insulation	
Drywall	
Ext. Lath	
T-Bar	
Gas Test	

FINALS 10-16-91 J. Keer

55168

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR A MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME: _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL INFORMATION GUIDE AND THE SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH & SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

OWNER OR AUTHORIZED AGENT X _____

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Ave. Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA		CONTRACTOR SAFFELL + MCADAM	
LOT	TRACT	MAILING ADDRESS 2955 MAIN ST	
PROPOSED USE		CITY, IRVINE	STATE CA ZIP 92713
NEW X / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. 714-474-2300	STATE LIC. NO. 209273
OWNER SHUWA INVESTMENT TEL. 213-649-5353		STATE LIC. CLASS B-1	CITY BUS. LIC.
MAILING ADDRESS 535 Flower ST		ARCHITECT OR ENGINEER DEREVERE PARTNERSHIP	
CITY LOS ANGELES STATE CA ZIP		STATE LIC. NO.	TEL. 714-833-2021

BUILDING PERMIT

FIRE ZONE 3	GROUP B	TYPE CONST. II-F	DATE 8-23-90	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT APPROVAL	ENGINEERING DEPT APPROVAL		LOT SIZE
	underground water supply for fire protection system			LIMITED TIME USE FROM		LIMITED TIME USE TO	
				AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING-- LIN. FT.
				VALUATION		BUILDING PERMIT AMOUNT	

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5 COST EACH	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00		1	INSTALL OR ALTER WATER SYSTEM	3.00	3.00		COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	.3.00	
	FLOOR DRAIN	6.00			P-TRAP OR POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00	15.00		EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $		18.00		HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL $				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20		.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS. OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft.		TEMP. POWER POLE			15.00	
MOTORS OVER INC. HP	0-1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1-10		7.50		MISC.			11.00	
	10-50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
								TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11		BUILDING PERMIT FEE 3200-11	
ENRGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	
MECHANICAL/PLUMBING PLAN CHECK		PLUMBING PERMIT 3201-11	18.00
ELECTRICAL PLAN CHECK		HEATING PERMIT 3201-11	
		ELECTRICAL PERMIT 3202-11	
		TOTAL AMOUNT DUE	18.00

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinance and State laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 55584

Signature of Permittee [signature] Building Dept. Otsuka 8-23-90

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT AMOUNT ARE IMPRINTED BELOW.

	[illegible] AMT 235 [illegible]

B-1 Rev. 4-89 Distribution of Copies: White--Inspector's Copy, Canary--Building Permit Receipt, Pink--Cashier's Copy, Goldenrod--Cashier's Copy.

5665 Plaza

LICENSED DECLARATION
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class C-57 D-21 License No. 209217

Exp. Date 5-31-92 Signature

WORKERS' COMPENSATION DECLARATION
I hereby affirm that I have a certificate of consent to self-insure or a certificate of Workers Compensation Insurance, or a certified copy thereof (Section 3800, Lab.C.)

Policy No. _____ Company _____

☑ Certified Copy is hereby furnished Exp. Date _____

☐ Certified copy is filed with the city building division.

EXEMPTION FROM WORKERS' COMPENSATION DECLARATION
(This section need not be completed if the permit is for one hundred dollars ($100) or less.)
I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers Compensation Laws of California.

Date _____ Signature _____

NOTICE: If after making this declaration, you should become subject to the Workers Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY
I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Section 3097 Civ.C).

Lender's Name _____

Lender's Address _____

OWNER BUILDER DECLARATION
I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit subject to the applicant to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvement are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.).

☐ I, *as owner of the property, am exclusively contracting* with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.).

☐ I am exempt under Section _____ B.&P.C. for this reason

Date _____ Owner _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Signature Terry A Pettit Date 8-23-90

City License _____

55584

HAZARDOUS MATERIAL DECLARATION

☐ YES
☐ NO — WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR A MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES
☐ NO — WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME: _____

☐ YES
☐ NO — WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES
☐ NO — I HAVE READ THE HAZARDOUS MATERIAL INFORMATION GUIDE AND THE SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH & SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

OWNER OR
AUTHORIZED AGENT X _____

INSPECTION RECORD

Temporary Power Pole _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Ground Work _____
Underground Electric _____
Slab _____
Floor Joists _____
Gas Lines _____
Roof Sheathing _____
Rough Plumbing _____
Plenum & Ducts _____
Rough Electrical _____
Electrical Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
T-Bar _____
Gas Test _____

OKCO Fire Dept — S. Tuttle FINALS 9-12-90.

FAX 229-0154

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Ave. Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA DR.		CONTRACTOR PYRO AUTO PROT.	
LOT	TRACT	MAILING ADDRESS 150 VANDER ST.	
PROPOSED USE		CITY CORONA	STATE CA. ZIP 91720
NEW ✓ / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. 371-8383	STATE LIC. NO. 498017
OWNER MITSUBISHI	TEL. 952-9230	STATE LIC. CLASS C-16	CITY BUS. LIC. 021200
MAILING ADDRESS 5605 PLAZA DR.		ARCHITECT OR ENGINEER R. DICKSON	
CITY CYPRESS	STATE CA. ZIP	STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE 3	GROUP B	TYPE CONST. V	DATE 9-5-90	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT APPROVAL	ENGINEERING DEPT APPROVAL		LOT SIZE
underground sprinkler system				LIMITED TIME USE FROM		LIMITED TIME USE TO	
				AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING-- LIN. FT.
				VALUATION		BUILDING PERMIT AMOUNT	

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5 COST EACH	.75			DUCT, ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00		1	INSTALL OR ALTER WATER SYSTEM	3.00	3.00		COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP OR POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00	15.00		EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $		18.00		HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL $				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20		.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS. OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft.		TEMP. POWER POLE			15.00	
MOTORS OVER INC. HP	0-1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1-10		7.50		MISC.			11.00	
	10-50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
								TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11			BUILDING PERMIT FEE	3200-11	
ENRGY PLAN CHECK			S. B. 1374 (1 or 2)	2001-11	
MECHANICAL/PLUMBING PLAN CHECK			PLUMBING PERMIT	3201-11	18.00
ELECTRICAL PLAN CHECK			HEATING PERMIT	3201-11	
			ELECTRICAL PERMIT	3202-11	
			TOTAL AMOUNT DUE		18.00

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinance and State laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 556051

Signature of Permittee J miller Building Dept. Otsuka 9-5-90

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT AMOUNT ARE IMPRINTED BELOW.

	3201-11-999-99 18.00 CK
	JR 793 09/05/90 $ 18.00 PD

B-1 Rev. 4-89 Distribution of Copies: White--Inspector's Copy, Canary--Building Permit Receipt, Pink--Cashier's Copy, Goldenrod--Cashier's Copy.

5605 Plaza

LICENSED DECLARATION
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class C-16 License No. 498017

Exp. Date 9/10/92 Signature S. Miller

WORKERS' COMPENSATION DECLARATION
I hereby affirm that I have a certificate of consent to self-insure or a certificate of Workers Compensation Insurance, or a certified copy thereof (Section 3800, Lab.C.)

Policy No. 400-05576-89-3 Company USF&G

☐ Certified Copy is hereby furnished Exp. Date 9/10/92

☐ Certified copy is filed with the city building division.

EXEMPTION FROM WORKERS' COMPENSATION DECLARATION
(This section need not be completed if the permit is for one hundred dollars ($100) or less.) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers Compensation Laws of California.

Date _____ Signature _____

NOTICE: If after making this declaration, you should become subject to the Workers Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY
I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Section 3097 Civ.C).

Lender's Name _____

Lender's Address _____

OWNER BUILDER DECLARATION
I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5. Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit subject to the applicant to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvement are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.).

☑ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.).

☐ I am exempt under Section _____ B&P.C. for this reason

Date _____ Owner _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Signature S. Miller Date 9/5/90

City License _____

INSPECTION RECORD

Temporary Power Pole _____
Setbacks _____
Soil Work _____
Offers - 3rd THE SUPPLY
Footings .16 ASAP 2ND
Ground Work _____
Underground Electric _____
Slab _____
Floor Joists _____
Gas Lines _____
Roof Sheathing _____
Rough Plumbing _____
Plenum & Ducts _____
Rough Electrical _____
Electrical Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
T-Bar _____
Gas Test _____

FINALS 9-12-90
Oxnard Fire Dept. S. Tuttle
(OK)

55651

HAZARDOUS MATERIAL DECLARATION

☐ YES ☑ NO — WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR A MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☑ NO — WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME: _____

☐ YES ☐ NO — WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO — I HAVE READ THE HAZARDOUS MATERIAL INFORMATION GUIDE AND THE SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH & SAFETY CODE, SECTION 25505, 25533, AND 25534, CONCERNING HAZARDOUS MATERIALS REPORTING.

OWNER OR
AUTHORIZED AGENT X _____

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Ave. Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5605 Plaza Dr		CONTRACTOR Pyro Automatic Protection	
LOT	TRACT	MAILING ADDRESS 150 Vanderbilt	
PROPOSED USE Fire Sprinklers		CITY Corona	STATE CA ZIP 91720
NEW X / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. (714) 371-8383	STATE LIC. NO. 419807
OWNER Mitsubishi TEL.		STATE LIC. CLASS C-16	CITY BUS. LIC. 021200 L
MAILING ADDRESS		ARCHITECT OR ENGINEER	
CITY STATE ZIP		STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE 3	GROUP B	TYPE CONST. V	DATE 10-25-90	FRONT YARD	RIGHT SIDE YARD
ZONE OP	JOB DESCRIPTION Fire Sprinklers for shell only			PLANNING DEPT APPROVAL	ENGINEERING DEPT APPROVAL
				LIMITED TIME USE FROM	LIMITED TIME USE TO
				AREA SQ. FT 50,023	NO. STORIES
				VALUATION 205,035.00	BUILDING PERMIT AMOUNT

LEFT SIDE YARD	REAR YARD
	LOT SIZE
ROOF COVERING	FENCING--LIN. FT.

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5 COST EACH	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP OR POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL $				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75	
	OVER 20		.45	
LIGHTING FIXTURES			.75	
RANGE-OVEN-GAR. DISP.			3.00	
DISHWASHER-KIT. FAN			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft.	
MOTORS OVER INC. HP	0-1		3.00	
	1-10		7.50	
	10-50		15.00	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	SERVICE 600V OVER 200A		37.50	
PANEL BOARD			11.00	
SWIM POOL/SPA			30.00	
TIME CLOCK			3.00	
SIGNS	NO.TRANS. OR BALS.		15.00	
	NO. LAMPS		3.00	
TEMP. POWER POLE			15.00	
ADDITIONAL SUPPORT POLES			7.50	
MISC.			11.00	
SUPPLEMENTARY PERMIT			4.50	
PERMIT FEE			15.00	
			TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	702.33	BUILDING PERMIT FEE 3200-11	1080.50
ENRGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	33.76
MECHANICAL/PLUMBING PLAN CHECK		PLUMBING PERMIT 3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT 3201-11	
		ELECTRICAL PERMIT 3202-11	
		TOTAL AMOUNT DUE	1114.26

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinance and State laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 56342

Signature of Permittee _____ Building Dept. Otsuka

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT AMOUNT ARE IMPRINTED BELOW.

58151 CK 1080.50 33.76 1112.77 PD	
	3620-11-999-99 702.33 CK

B-1 Rev. 4-89 Distribution of Copies: White--Inspector's Copy, Canary--Building Permit Receipt, Pink--Cashier's Copy, Goldenrod--Cashier's Copy.

LICENSED DECLARATION
I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.
License Class C-16 License No. 498017
Exp. Date _____ Signature _____

WORKERS' COMPENSATION DECLARATION
I hereby affirm that I have a certificate of consent to self-insure or a certificate of Workers Compensation Insurance, or a certified copy thereof (Section 3800, Lab.C.)
Policy No. 40-05948-90 Company USF&G
☐ Certified Copy is hereby furnished Exp. Date 9/10/91
☐ Certified copy is filed with the city building division.

EXEMPTION FROM WORKERS' COMPENSATION DECLARATION
(This section need not be completed if the permit is for one hundred dollars ($100) or less.) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers Compensation Laws of California.
Date _____ Signature _____
NOTICE: If after making this declaration, you should become subject to the Workers Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY
I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Section 3097 Civ.C).
Lender's Name _____
Lender's Address _____

OWNER BUILDER DECLARATION
I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit subject to the applicant to a civil penalty of not more than five hundred dollars ($500).)
☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvement are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.).
☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.).
☐ I am exempt under Section _____ B.&P.C. for this reason
Date _____ Owner _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.
Signature _____ Date 12/25/90
City License _____

INSPECTION RECORD

Temporary Power Pole _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Ground Work _____
Underground Electric _____
Slab _____
Floor Joists _____
Gas Lines _____
Roof Sheathing _____
Rough Plumbing _____
Plenum & Ducts _____
Rough Electrical _____
Electrical Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
T-Bar _____
Gas Test _____

Jerry Hartogan 4-25-91
FINALS 4-25-91
Owner Size
S. Tuttle
O.H. & Hot tap Hydro
OK 11-9-90

56342

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO — WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR A MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO — WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME: _____

☐ YES ☐ NO — WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO — I HAVE READ THE HAZARDOUS MATERIAL INFORMATION GUIDE AND THE SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH & SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

OWNER OR
AUTHORIZED AGENT X _____

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Ave. Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 Plaza Dr.		CONTRACTOR KBR Electric Inc.	
LOT	TRACT	MAILING ADDRESS 755 W. Cerritos	
PROPOSED USE Office Building elect		CITY Anaheim	STATE Ca ZIP 92805
NEW # / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. 535-5050	STATE LIC. NO. 469185
OWNER Shuwa Investments TEL. 213-624-5353		STATE LIC. CLASS C-10	CITY BUS. LIC. 022825
MAILING ADDRESS 555 S. Flower St.		ARCHITECT OR ENGINEER	
CITY Los Angeles STATE Ca ZIP 90071		STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE 3	GROUP B	TYPE CONST. V	DATE 6-19-90	FRONT YARD	RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT APPROVAL	ENGINEERING DEPT APPROVAL / LOT SIZE
elect TPP				LIMITED TIME USE FROM	LIMITED TIME USE TO
				AREA SQ. FT.	NO. STORIES / ROOF COVERING / FENCING--LIN. FT.
				VALUATION	BUILDING PERMIT AMOUNT

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5 COST EACH	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP OR POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL $				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER SERVICE 0-600V NOT OVER 200A			18.50	
	OVER 20		.45		SERVICE 600V OVER 200A			37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS. OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft.		TEMP. POWER POLE		1	15.00	15.00
MOTORS OVER 1HC. HP	0-1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1-10		7.50		MISC.			11.00	
	10-50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	15.00
								TOTAL FEE $	30.00

FEE SUMMARY

BUILDING PLAN CHECK 3620-11			BUILDING PERMIT FEE	3200-11	
ENRGY PLAN CHECK			S. B. 1374 (1 or 2)	2001-11	
MECHANICAL/PLUMBING PLAN CHECK			PLUMBING PERMIT	3201-11	
ELECTRICAL PLAN CHECK			HEATING PERMIT	3201-11	
			ELECTRICAL PERMIT	3202-11	30.00
			TOTAL AMOUNT DUE		30.00

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinance and State laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 55118

Signature of Permittee _____ Building Dept. _____ 6-19-90

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT AMOUNT ARE IMPRINTED BELOW.

	PD: 8561 June 19 A 30.00 CK

B-1 Rev. 4-89 Distribution of Copies: White--Inspector's Copy, Canary--Building Permit Receipt, Pink--Cashier's Copy, Goldenrod--Cashier's Copy

5665 PLAZA

LICENSED DECLARATION

I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class B-C-10 License No. 469185

Exp. Date 2-28-91 Signature

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self-insure or a certificate of Workers Compensation Insurance, or a certified copy thereof (Section 3800, Lab.C.)

Policy No. 02-WCP-01312-B Company Pacific Rim

☐ Certified Copy is hereby furnished Exp. Date 3-12-91

☐ Certified copy is filed with the city building division.

EXEMPTION FROM WORKERS' COMPENSATION DECLARATION

(This section need not be completed if the permit is for one hundred dollars ($100) or less.) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers Compensation Laws of California.

Date Signature

NOTICE: If after making this declaration, you should become subject to the Workers Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Section 3097 Civ.C).

Lender's Name

Lender's Address

OWNER BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit subject to the applicant to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvement are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.).

☐ I am exempt under Section B.&P.C. for this reason

Date Owner

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Signature Date 6-19-90

City License 022825

INSPECTION RECORD

Temporary Power Pole

Setbacks

Soil Work

Uffer

Footings

Ground Work

Underground Electric

Slab

Floor Joists

Gas Lines

Roof Sheathing

Rough Plumbing

Plenum & Ducts

Rough Electrical

Electrical Conduit

Framing

Sewer

Insulation

Drywall

Ext. Lath

T-Bar

Gas Test

FINALS 7-16-90 J.H

55118

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO **WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR A MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?**

☐ YES ☐ NO **WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) SEE PERMITTING CHECKLIST FOR GUIDELINES.**

PRINT NAME:

☐ YES ☐ NO **WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?**

☐ YES ☐ NO **I HAVE READ THE HAZARDOUS MATERIAL INFORMATION GUIDE AND THE SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH & SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.**

OWNER OR AUTHORIZED AGENT X

7.83 492.00

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Ave. Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5605 PLAZA		CONTRACTOR SAFFELL + McADAMS	
LOT	TRACT	MAILING ADDRESS P.O. Box 17509	
PROPOSED USE PC-3		CITY IRVINE	STATE CA ZIP 92713
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. 714-474-2300	STATE LIC. NO. 204273
OWNER SHOWA INVESTMENT TEL. 213-624-5353		STATE LIC. CLASS	CITY BUS. LIC.
MAILING ADDRESS 555 FLOWER		ARCHITECT OR ENGINEER DEREVERE PARTNERSHIP	
CITY LOS ANGELES STATE CA ZIP 90071		STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE 3 / GROUP B / TYPE CONST. V / DATE 2-21-91		FRONT YARD / RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD	
ZONE OP / JOB DESCRIPTION		PLANNING DEPT APPROVAL / ENGINEERING DEPT APPROVAL / LOT SIZE	
PARKING LOT POLE BASES		LIMITED TIME USE FROM / LIMITED TIME USE TO	
		AREA SQ. FT. / NO. STORIES / ROOF COVERING / FENCING--LIN. FT.	
		VALUATION 30,100 OK / BUILDING PERMIT AMOUNT	

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100K	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5 COST EACH	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP OR POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL $				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER SERVICE 0-600V NOT OVER 200A			18.50	
	OVER 20		.45		SERVICE 600V OVER 200A			37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS. OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft.		TEMP. POWER POLE			15.00	
MOTORS OVER INC. HP	0-1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1-10		7.50		MISC.			11.00	
	10-50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
								TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3520-11	189.15	BUILDING PERMIT FEE 3200-11	291.00
ENRGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	4.52
MECHANICAL/PLUMBING PLAN CHECK		PLUMBING PERMIT 3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT 3201-11	
		ELECTRICAL PERMIT 3202-11	
		TOTAL AMOUNT DUE	484.67

3200-11 Bldg Permit Fee 291.00
2001-11 S.B. 1473 Fee 4.52
3520-11 Bldg Plan Check 189.15
3201-11 Plumbing Permit
3201-11 Heating Permit
3202-11 Electrical Permit
3120-11 Strong Motion Fee 0.61 CA
3120-11 Strong Motion Fee 72.00 CA
3120-11 Strong Motion Fee 51.75 CA
3120-11 Strong Motion Fee 46.80 CA
2105-11 Seismic Fee 2.89 CA
TOTAL PAID 484.67 CA

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinance and State laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 57052

Signature of Permittee Randy Cudworth Building Dept. Ofstilla 2-21-91

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT AMOUNT ARE IMPRINTED BELOW.

5605 Plaza

B-1 Rev. 4-89 Distribution of Copies: White--Inspector's Copy, Canary--Building Permit Receipt, Pink--Cashier's Copy, Goldenrod--Cashier's Copy.

LICENSED DECLARATION
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class 25-1 License No. 20927 S

Exp. Date 5-31-91 Signature [signature]

WORKERS' COMPENSATION DECLARATION
I hereby affirm that I have a certificate of consent to self-insure or a certificate of Workers Compensation Insurance, or a certified copy thereof (Section 3800, Lab.C.)

Policy No. _____ Company _____

☐ Certified Copy is hereby furnished Exp. Date _____

☑ Certified copy is filed with the city building division.

EXEMPTION FROM WORKERS' COMPENSATION DECLARATION
(This section need not be completed if the permit is for one hundred dollars ($100) or less.) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers Compensation Laws of California.

Date 2-21-91 Signature [signature]

NOTICE: If after making this declaration, you should become subject to the Workers Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY
I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Section 3097 Civ.C).

Lender's Name _____

Lender's Address _____

OWNER BUILDER DECLARATION
I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit subject to the applicant to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvement are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.).

☐ I am exempt under Section _____ B.&P.C. for this reason

Date _____ Owner _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Signature [signature] Date 2-21-91

City License 018-3-B

INSPECTION RECORD

Temporary Power Pole _____
Setbacks _____
Soil Work _____
Uffer _____
Footings 3-6-91 [initials]
Ground Work _____
Underground Electric 3-6-91 [initials]
Slab _____
Floor Joists _____
Gas Lines _____
Roof Sheathing _____
Rough Plumbing _____
Plenum & Ducts _____
Rough Electrical _____
Electrical Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
T-Bar _____
Gas Test _____

FINALS 10-16-91
[signature]

57052

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO — WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR A MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO — WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME: _____

☐ YES ☐ NO — WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO — I HAVE READ THE HAZARDOUS MATERIAL INFORMATION GUIDE AND THE SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH & SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

OWNER OR
AUTHORIZED AGENT X _____

100 120.47

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Ave. Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5605 PLAZA		CONTRACTOR SAFFELL + McADAM	
LOT	TRACT	MAILING ADDRESS P.O. BOX 17509	
PROPOSED USE PC-3		CITY IRVINE	STATE CA. ZIP 92713
NEW X / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. 714-474-2300	STATE LIC. NO. 209273
OWNER SHUWA INVESTMENT TEL. 213-625-5353		STATE LIC. CLASS B-1	CITY BUS. LIC. 018353
MAILING ADDRESS 555 S. FLOWER		ARCHITECT OR ENGINEER DEREVERE PARTNERSHIP	
CITY LOS ANGELES STATE CA ZIP 90071		STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE 3	GROUP B	TYPE CONST.	DATE 2-21-91	FRONT YARD	RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD
ZONE CP	JOB DESCRIPTION			PLANNING DEPT APPROVAL / ENGINEERING DEPT APPROVAL / LOT SIZE	
FLAG POLE FOUNDATION				LIMITED TIME USE FROM / LIMITED TIME USE TO	
				AREA SQ. FT. / NO. STORIES / ROOF COVERING / FENCING--LIN. FT.	
				VALUATION 4092.00	BUILDING PERMIT AMOUNT

PLUMBING/HEATING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	6.00			WATER HEATER	7.50			F.A.U. 1 - 100M	9.00	
	BATH TUB	6.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00			OVER 100M	11.00	
	SHOWER	6.00			OUTLET OVER 5 COST EACH	.75			DUCT ALT. or ADD	6.50	
	LAVATORY	6.00			VACUUM BREAKER	7.50			KITCHEN-BATH VENT	4.50	
	SINK	6.00			INSTALL OR ALTER WATER SYSTEM	3.00			COMM. HOOD	6.50	
	DISHWASHER	6.00			INSTALL OR ALTER WASTE OR VENTS	3.00			A.C. UNIT	9.00	
	LAUNDRY TUB	6.00			HOUSE SEWER	45.00			WALL FURNACE	9.00	
	CLOTHES WASHER	6.00			CONNECT ADD. H.S.	3.00			GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	FLOOR DRAIN	6.00			P-TRAP OR POOL DRN.	6.00			OUTLET OVER 5 COST EACH	.75	
	FLOOR SINK	6.00			SEWER CAP	6.00			EVAP 1 - 10M	6.50	
	MISC.	6.00			PLUMBING PERMIT	15.00			EVAP OVER 10M	11.00	
	MISC.	6.00			PLUMBING TOTAL $				HEATING PERMIT	15.00	
	MISC.	6.00			PLUMBING/HEATING TOTAL $				HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20		.75		EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	OVER 20		.45			SERVICE 600V OVER 200A		37.50	
LIGHTING FIXTURES			.75		PANEL BOARD			11.00	
RANGE-OVEN-GAR. DISP.			3.00		SWIM POOL/SPA			30.00	
DISHWASHER-KIT. FAN			3.00		TIME CLOCK			3.00	
CLOTHES DRYER AUTO WASHER			3.00		SIGNS	NO. TRANS. OR BALS.		15.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00			NO. LAMPS		3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft.		TEMP. POWER POLE			15.00	
MOTORS OVER INC. HP	0-1		3.00		ADDITIONAL SUPPORT POLES			7.50	
	1-10		7.50		MISC.			11.00	
	10-50		15.00		SUPPLEMENTARY PERMIT			4.50	
					PERMIT FEE			15.00	
								TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3520-11	46.80		BUILDING PERMIT FEE	3200-11	72.00
ENRGY PLAN CHECK			S. B. 1374 (1 or 2)	2001-11	.61
MECHANICAL/PLUMBING PLAN CHECK			PLUMBING PERMIT	3201-11	
ELECTRICAL PLAN CHECK			HEATING PERMIT	3201-11	
Add'l PC pd on parking lot pole permit #57052	51.75		ELECTRICAL PERMIT	3202-11	
			TOTAL AMOUNT DUE		119.41 121.16

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinance and State laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 57053

Signature of Permittee [signature] Building Dept. Otsuka 2-21-91

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT AMOUNT ARE IMPRINTED BELOW.

8.89 CK
46.80 CK
51.75 CA
72.00 CA
0.61 CA
189.15 CA
791.00 CA
4.50 CA
72.00 CA

B-1 Rev. 4-89 Distribution of Copies: White--Inspector's Copy, Canary--Building Permit Receipt, Pink--Cashier's Copy, Goldenrod--Cashier's Copy.

LICENSED DECLARATION
I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class B-1 License No. 209219

Exp. Date 3-31-91 Signature [signature]

WORKERS' COMPENSATION DECLARATION
I hereby affirm that I have a certificate of consent to self-insure or a certificate of Workers Compensation Insurance, or a certified copy thereof (Section 3800, Lab.C.)

Policy No. _____ Company _____

☐ Certified Copy is hereby furnished Exp. Date _____

☐ Certified copy is filed with the city building division.

EXEMPTION FROM WORKERS' COMPENSATION DECLARATION
(This section need not be completed if the permit is for one hundred dollars ($100) or less.) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers Compensation Laws of California.

Date 2-21-91 Signature [signature]

NOTICE: If after making this declaration, you should become subject to the Workers Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY
I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Section 3097 Civ.C).

Lender's Name _____

Lender's Address _____

OWNER BUILDER DECLARATION
I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit subject to the applicant to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvement are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.).

☐ I am exempt under Section _____ B.&P.C. for this reason

Date _____ Owner _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Signature [signature] Date 2-21-91

City License A18853

INSPECTION RECORD

Temporary Power Pole	
Setbacks	
Soil Work	
Utter	
Footings	3-6-91 J.C.
Ground Work	
Underground Electric	
Slab	
Floor Joists	
Gas Lines	
Roof Sheathing	
Rough Plumbing	
Plenum & Ducts	
Rough Electrical	
Electrical Conduit	
Framing	
Sewer	
Insulation	
Drywall	
Ext. Lath	
T-Bar	
Gas Test	

FINALS 10-16-91 J. Keer

57053

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO **WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR A MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?**

☐ YES ☐ NO **WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) SEE PERMITTING CHECKLIST FOR GUIDELINES.**

PRINT NAME: _____

☐ YES ☐ NO **WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?**

☐ YES ☐ NO **I HAVE READ THE HAZARDOUS MATERIAL INFORMATION GUIDE AND THE SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH & SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.**

OWNER OR AUTHORIZED AGENT X _____

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Ave. Cypress, CA 90630 Phone (714) 229-6730

(34)

JOB ADDRESS 5665 PLAZA DR.		CONTRACTOR SAFFELL & WHADAM INC	
LOT	TRACT	MAILING ADDRESS 2955 MAIN ST.	
PROPOSED USE OFFICE BUILDING		CITY IRVINE	STATE CA. ZIP 92713
NEW ✓ / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. 714 474-2300	STATE LIC. NO. 207279
OWNER SHOWA INVESTMENTS TEL. 213/624-5353		STATE LIC. CLASS ~~207279/B~~	CITY BUS. LIC. 016353
MAILING ADDRESS 555 So. FLOWER ST.		ARCHITECT OR ENGINEER DEREGERE PARTNERSHIP-ROYCE WISE	
CITY LOS ANGELES STATE CA ZIP 90071		STATE LIC. NO. C5162	TEL. 714/833-2021

BUILDING PERMIT

Job Site # 952-9230

FIRE ZONE 3	GROUP B2	TYPE CONST. 2FR	DATE 2-12-90	FRONT YARD 150'	RIGHT SIDE YARD 140'
ZONE PC-3	JOB DESCRIPTION 5 STORY, 150,023SF OFFICE BLDG. — A/C. in core areas			PLANNING DEPT APPROVAL	ENGINEERING DEPT APPROVAL
				LIMITED TIME USE FROM	LIMITED TIME USE TO
				AREA SQ. FT. 150,023	NO. STORIES 5
				VALUATION ~~12,100,457~~	BUILDING PERMIT AMOUNT

LEFT SIDE YARD 63' | REAR YARD 300'+

LOT SIZE 7.52 AC

ROOF COVERING BU | FENCING--LIN. FT.

PLUMBING/HEATING PERMIT 12,094,000

NO.	ITEM		AMOUNT
	WATER CLOSET	6.00	
	BATH TUB	6.00	
	SHOWER	6.00	
	LAVATORY	6.00	
	SINK	6.00	
	DISHWASHER	6.00	
	LAUNDRY TUB	6.00	
	CLOTHES WASHER	6.00	
	FLOOR DRAIN	6.00	
	FLOOR SINK	6.00	
	MISC.	6.00	
	MISC.	6.00	
	MISC.	6.00	

NO.	ITEM		AMOUNT
	WATER HEATER	7.50	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5 COST EACH	.75	
	VACUUM BREAKER	7.50	
	INSTALL OR ALTER WATER SYSTEM	3.00	
	INSTALL OR ALTER WASTE OR VENTS	3.00	
	HOUSE SEWER	45.00	
	CONNECT ADD. H.S.	3.00	
	P-TRAP OR POOL DRN.	6.00	
	SEWER CAP	6.00	
	PLUMBING PERMIT	15.00	
	PLUMBING TOTAL $		
	PLUMBING/HEATING TOTAL $		

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	9.00	
	OVER 100M	11.00	
	DUCT ALT. or ADD	6.50	
	KITCHEN-BATH VENT	4.50	
	COMM. HOOD	6.50	
	A.C. UNIT	9.00	
	WALL FURNACE	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5 COST EACH	.75	
	EVAP 1 - 10M	6.50	
	EVAP OVER 10M	11.00	
	HEATING PERMIT	15.00	
	HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS: LIGHTS SWITCHES RECEPT.	1 to 20		.75	
	OVER 20		.45	
LIGHTING FIXTURES			.75	
RANGE-OVEN-GAR. DISP.			3.00	
DISHWASHER-KIT. FAN			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft.	
MOTORS OVER INC. HP	0-1		3.00	
	1-10		7.50	
			15.00	

ITEM		NO.	EACH	FEE
EACH METER SERVICE 0-600V NOT OVER 200A			18.50	
SERVICE 600V OVER 200A			37.50	
PANEL BOARD			11.00	
SWIM POOL/SPA			30.00	
TIME CLOCK			3.00	
SIGNS	NO. TRANS. OR BALS.		15.00	
	NO. LAMPS		3.00	
TEMP. POWER POLE			15.00	
ADDITIONAL SUPPORT POLES			7.50	
MISC.			11.00	
SUPPLEMENTARY PERMIT			4.50	
PERMIT FEE			15.00	
TOTAL FEE $				

FEE SUMMARY

BUILDING PERMIT FEE	16,722.88	ELECTRICAL PLAN CHECK	3859.13
BUILDING PLAN CHECK PC ✓	25,727.50	ELECTRICAL PERMIT	
ENERGY PLAN CHECK	6431.88	PLUMBING PERMIT	
MECHANICAL/PLUMBING PLAN CHECK	3859.13	HEATING PERMIT	
S.B. 1374 (Category 1 or 2)	1814.44		
PRIME CONTRACTOR'S TAX		TOTAL AMOUNT DUE	27,541.60

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinance and State laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 55016

Signature of Permittee [signature] Building Dept. OSAWA 6-1-90

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT AMOUNT ARE IMPRINTED BELOW.

PAID 3773 FEE 12E30,873.02CK	PAID 8039 JE 1A275,116.00CK

B-1 Rev. 4-88 Distribution of Copies: White--Inspector's Copy, Canary--Building Permit Receipt, Pink--Cashier's Copy, Goldenrod--Cashier's Copy.

5665 PLAZA

6-15-90
Pile caps (Steel)
From line A thru E
& 7 thru 11. J.H

6-20-90
Elevator Pad Steel
center of Bldg. J.H

6-22-90
Chase steel for
L-1 & 5 & J-3
Pads will be
Poured to Bottom
of Pile Cap.

6-25-90
Pile caps
B thru F on line 1 / Between
K thru F on line 3 / 1 & 5 at L line
G thru F on line 5
Tie Beams between L & F at
Line 3.

Shell
Finaled
4-25-91
J. Klein

Shell Fire Finaled
4-25-91
Doug Saltman
(J.H)

#55016

January 4, 1995

Mr. Joel Watson
Building Inspector
City of Cypress
5275 Orange Avenue
Cypress, CA 90630

Re: Mitsubishi Building
LA Cellular/2nd Floor Remodel
5665 Plaza Drive, Suite 200

Dear Mr. Watson:

Daryl Maimberg Associates is space planner of record for the above project. We prepared sheets AO thru A11 of the construction documents which were permitted by the Cypress Building Department and plan checked by Melad & Associates.

DMA
Daryl Malmberg Associates
Interior Planning & Design
2600 Michelson Drive, Suite 1550
Irvine, California 92715
Telephone: (714) 752-1150
Telefax: (714) 851-5135

The general contractor for the project has brought to our attention that a clarification in construction detailing has been discussed relevant to conduit penetrations at rated walls. In effect, the general contractor will be using "Fire-safing" and "Fire Caulk" to pack all existing and new electrical and cable conduits/trays that will penetrate rated walls.

While the direction of our documents does not indicate the specific method of rating we have no problem with this method. This method is commonly used throughout many local municipalities to continue the required rating.

We trust that this will suffice as adequate authorization for the method of construction addressed above. Should any questions arise please feel free to contact our office.

Very truly yours,

DARYL MALMBERG ASSOCIATES

Daryl Malmberg

Approved by:

Dean Reuter/Project Manager
Reuter and Associates
Licensed Architect, State of California #C-10934

1/16/95
Date

CERTIFICATE OF OCCUPANCY

CITY OF CYPRESS - BUILDING DEPARTMENT

No. 14930

Date 10/17/91

Bldg. Permit No. 55016 Plumb. Permit No. 55168 Elect. Permit No. 55119

Use of Building 5 story office building

The Building Located At 5665 Plaza Dr.

Lot _____ Block _____ Tract _____

(See Reverse Side For Metes and Bounds)

has been inspected and found to comply with the provisions of all Cypress City ordinances applicable thereto for a group B-2 occupancy.

ISSUED TO: Shuwa Investments
555 S. Flower St.
Los Angeles, CA 90071

SUPERINTENDENT OF BUILDING

By Linda D. Haines

FILE COPY DATE 10/17/91

©M

CITY OF CYPRESS
Building Division
5275 Orange Avenue, Cypress, CA 90630
Phone 714·229·6732 or 714·229·6733

CORRECTION NOTICE

DATE: 10/14/04

PT. NO.: 83332

JOB ADDRESS: 565 Plaza 2nd FL

Ok to occupy 2nd FL southeast wing subject to fire dept approval.

INSPECTOR'S SIGNATURE

Saffell & McAdam, Inc., Builders

Terry Pettit
Project Superintendent

2955 East Main Street, P.O. Box 17509, Irvine, California 92713
Phone 714 / 474-2300 *FAX 714 / 261-0726*

CERTIFICATE OF OCCUPANCY

CITY OF CYPRESS - BUILDING DEPARTMENT

No. 14930

Date 10/17/91

Bldg. Permit No. 55016 Plumb. Permit No. 55168 Elect. Permit No. 55119

Use of Building 5 story office building

The Building Located At 5665 Plaza Dr.

Lot _____ Block _____ Tract _____

(See Reverse Side For Metes and Bounds)

has been inspected and found to comply with the provisions of all Cypress City ordinances applicable thereto for a group B-2 occupancy.

ISSUED TO: Shuwa Investments
555 S. Flower St.
Los Angeles, CA 90071

SUPERINTENDENT OF BUILDING

By Linda D. Haines

FILE COPY DATE 10/17/91

©M

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 2

To Jan Clendennen	From Marcia
Co.	Co.
Dept.	Phone # (714) 229-6730
Fax # (303) 861-8565	Fax #

30.92 (34)

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630

JOB ADDRESS 5665 Plaza Drive		CONTRACTOR Roel Construction	
LOT	TRACT Ste 110	MAILING ADDRESS 2500 Michelson Dr Suite 300	
PROPOSED USE Commercial		CITY Irvine	STATE CA ZIP 92612
NEW / ADD / ALTER X / REPAIR / DEMOLISH / SPECIAL		TEL. 949-221-0363	STATE LIC. NO. 184531
OWNER RREEF - Mark Zehnder TEL 949-833-2035		STATE LIC. CLASS B1	CITY BUS. LIC.
MAILING ADDRESS 18581 Von Karman		ARCHITECT OR ENGINEER Shlemmer-Algaze Assoc	
CITY Irvine STATE CA ZIP 92612		STATE LIC. NO.	TEL. 949-724-8958

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST. II FR	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION Tenant Improvement (office)			PLANNING DEPT. APPROVAL KW	ENGINEERING DEPT. APPROVAL MA	LOT SIZE	
				LIMITED TIME USE FROM		LIMITED TIME USE TO	
				AREA SQ. FT. 3398	NO. STORIES	ROOF COVERING	FENCING -- LIN. FT.
				VALUATION $118,930			

5665 Plaza Dr

PLUMBING/HEATING

NO.	ITEM		AMOUNT
	WATER CLOSET	6.00	
	BATH TUB	6.00	
	SHOWER	6.00	
	LAVATORY	6.00	
1	SINK	6.00	6.00
	DISHWASHER	6.00	
	LAUNDRY TUB	6.00	
	CLOTHES WASHER	6.00	
	FLOOR DRAIN	6.00	
	FLOOR SINK	6.00	
	MISC.	6.00	
	MISC.	6.00	
	MISC.	6.00	

NO.	ITEM		AMOUNT
1	WATER HEATER	7.50	7.50
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5	.75	
	VACUUM BREAKER	7.50	
1	INSTALL OR ALTER WATER SYSTEM	3.00	3.00
	INSTALL OR ALTER WASTE OR VENTS	3.00	
	HOUSE SEWER	45.00	
	CONNECT ADD. H.S.	3.00	
	P-TRAP POOL DRN.	6.00	
	SEWER CAP	6.00	
1	PLUMBING PERMIT	15.00	15.00
	PLUMBING	$	31.50
	PLUMBING/HEATING TOTAL		

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	9.00	
	OVER 100M	11.00	
2	DUCT ALT. or ADD	6.50	13.00
	KITCHEN-BATH VENT	4.50	
	COMM. HOOD	6.50	
2	A.C. UNIT EVAP	9.00	18.00
	WALL FURNACE	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.00	
	OUTLET OVER 5 COST EACH	.75	
	EVAP 1 - 10M	6.50	
	EVAP OVER 10M	11.00	
	HEATING	15.00	15.00
	HEATING TOTAL	$	46.00

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS:	1 to 20	20	.75	15.00
	OVER 20	27	.45	12.15
LIGHTING FIXTURES		42	.75	31.50
RANGE-OVEN-GAR. DISP.		1	3.00	3.00
DISHWASHER-KIT. FAN			3.00	
CLOTHES DRYER AUTO WASHER			3.00	
WATER HTR. POOL HTR. SPACE HTR.			3.00	
NEW RESIDENTIAL OUTLETS			.035 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.00	
	1 - 10		7.50	
	10 - 50		15.00	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		18.50	
	SERVICE 600V OVER 200A		37.50	
PANEL BOARD			11.00	
SWIM POOL/SPA			30.00	
TIME CLOCK			3.00	
SIGNS	NO. TRANS OR BALS.		15.00	
	NO. LAMPS		3.00	
TEMP. POWER			15.00	
ADDITIONAL SUPPORT POLES			7.50	
MISC.			11.00	
SUPPLEMENTARY PERMIT			4.50	
PERMIT FEE		1	15.00	15.00
			TOTAL FEE $	76.65

FEE SUMMARY

BUILDING PLAN CHECK 3620-11	458.90	BUILDING PERMIT FEE	700.00
ENERGY PLAN CHECK	176.50	S. B. 1374 (1 or 2) 2001-11	24.98
MECHANICAL/PLUMBING PLAN	105.90	PLUMBING PERMIT	31.50
ELECTRICAL PLAN CHECK	105.90	HEATING PERMIT	46.00
ADMINISTRATIVE FEE		ELECTRICAL PERMIT 3202-11	76.65
	847.20	TOTAL AMOUNT	985.13

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended.

I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property

Signature of Permitee [signature] Building Dept. [signature] 7-13-05

PERMIT NUMBER 84933

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 rev. 5-96 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: B License No. 684531 Exp. Date: 02/31/06

Signature Tray Renfroe

TO ALL PERMITTEES: In accordance with AB 443, the workers' compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.

WORKERS' COMPENSATION DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: 5665 Plaza DR.

Permit No. 84933 Issuance Date 09-13-05

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☒ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier Zurich - American

Policy Number WC 367 6619-02

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection purposes.

Date: _____ Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☒ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☒ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME Tray Renfroe

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work Jwats 7/21/05
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. Jwats 7/21/05
Ducts _____
R.Elect. Jwatson
Conduit _____
Framing 7/19/05
Sewer _____
Insulation Jwats 7/27/05
Drywall Jwats 8/1/05
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____
FINALS 8/14/05

FIRE 8/18/05

39 + 50 (3C)

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue, Cypress, CA 90630 Phone (714) 229-6738

JOB ADDRESS 5665 Plaza Drive # 120		CONTRACTOR Architect: SAA TRI CITY BUILDERS	
LOT	TRACT	MAILING ADDRESS 3300 IRVINE AVE # 2294-E BATAVIA	
PROPOSED USE B		CITY NEWPORT BEACH STATE 92660 & 92625	
NEW / ADD / ALTER 5400 / REPAIR / DEMOLISH / SPECIAL		TEL. 949.724.8958	STATE LIC. NO.
OWNER RREEF TEL.		STATE LIC. CLASS CCDC B	CITY BUS. LIC.
MAILING ADDRESS 4041 MacArthur Blvd. #E575		ARCHITECT OR ENGINEER Bill DENNIS VALENCIA	
CITY Newport Beach STATE Ca. ZIP 92660		STATE LIC. NO. 7137	TEL.

BUILDING PERMIT 578337

FIRE ZONE	GROUP B	TYPE CONST. II	DATE 6/19/06	FRONT YARD	RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION: COMMERCIAL T.I.			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL / LOT SIZE
new metal studs with 5/8 type 'X' GYP. Board.				LIMITED TIME USE FROM	LIMITED TIME USE TO
				AREA SQ. FT. 5400	NO. STORIES / ROOF COVERING / FENCING -- LIN. FT.
				VALUATION 150,000.00	

5665 Plaza

PLUMBING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	7.25			WATER HEATER	9.00	
	BATH TUB	7.25			GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	SHOWER	7.25			OUTLET OVER 5	1.00	
	LAVATORY	7.25			VACUUM BREAKER	9.00	
1	SINK	7.25	7.25	1	INSTALL OR ALTER WATER SYSTEM	3.75	3.75
	DISHWASHER	7.25			INSTALL OR ALTER WASTE OR VENTS	3.75	
	LAUNDRY TUB	7.25			HOUSE SEWER	54.00	
	CLOTHES WASHER	7.25			CONNECT ADD. H.S.	3.75	
	FLOOR DRAIN	7.25			P-TRAP POOL DRN.	7.25	
	FLOOR SINK	7.25			SEWER CAP	7.25	
	MISC.	7.25					
	MISC.	7.25		1	PLUMBING PERMIT	18.00	18-
	MISC.	7.25			PLUMBING TOTAL $		29-

MECHANICAL / HEATING PERMIT

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	11.00	
	OVER 100M	13.25	
1	DUCT ALT. or ADD	8.00	8-
	KITCHEN - BATH VENT	5.50	
	COMM. HOOD	11.00	
	A.C. UNIT	11.00	
	WALL FURNACE / F.P.	11.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5 COST EACH	1.00	
	SMOKE / FIRE DAMPER	8.00	
	MISC.	11.00	
1	HEATING PERMIT	18.00	18-
	HEATING TOTAL $		26-

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS / SWITCHES / SMOKE DETECTORS	1 to 20	20	1.00	20-
	OVER 20	67	.60	4.20
LIGHTING FIXTURES		68.	1.00	68-
RANGE - OVEN - GARBAGE DISPOSAL			3.75	
DISHWASHER - KITCHEN FAN			3.75	
CLOTHES WASHER/DRYER			3.75	
WATER HTR. POOL HTR. SPACE HTR.			3.75	
NEW RESIDENTIAL OUTLETS			.042 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.75	
	1 - 10		9.00	
	10 - 50		18.00	
MISC. / ARC FAULT			13.25	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		22.00	
	SERVICE 600V OVER 200A		45.00	
	SERVICE 600V OVER 400A		90.00	
PANEL BOARD			13.25	
TRANSFORMERS			13.25	
SWIM POOL/SPA			36.00	
TIME CLOCK			3.75	
SIGNS	NO. TRANS. / BALLASTS / INVERTERS		18.00	
	NO. LAMPS / LETTERS		3.75	
TEMPORARY POWER POLES			18.00	
SUPPLEMENTARY PERMIT			6.00	
PERMIT FEE		1	18.00	18-
			TOTAL FEE $	110.20

FEE SUMMARY

BUILDING PLAN CHECK	3620-11	646.75	BUILDING PERMIT FEE	3200-11	995.00
ENERGY PLAN CHECK		248.75	S. B. 1374 (1 or 2)	2001-11	31.50
MECHANICAL/PLUMBING PLAN CHK.		149.25	PLUMBING PERMIT	3201-11	29.00
ELECTRICAL PLAN CHECK		149.25	HEATING PERMIT	3201-11	26-
ADMINISTRATIVE FEE		35.00	ELECTRICAL PERMIT	3202-11	110.20
		1195.00	TOTAL AMOUNT DUE $		2226.70

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended. I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 86695

Signature of Permitee [signature] Building Dept. [signature] 8-28-06

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 Building Permit Application rev. 03-06 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: GC License No. 578331 Exp. Date: 9-30-07

Signature Brenda Hodgson

***TO ALL PERMITTEES:** In accordance with AB 443, the Workers' Compensation Insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.*

WORKERS' COMPENSATION INSURANCE DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier Wasserman and Associates

Policy Number 713 8693-05

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 8-26-06 Signature Brenda Hodgson

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 26534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect JWA 9-18-06
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. JWA 8/30/06
Ducts
R.Elect.
Conduit
Framing _____
Sewer _____
Insulation JWA 9/5/06
Drywall JWA 9/7/06
Ext. Lath _____
Sc. Coat _____
T-Bar JWA 9/26/06
Gas Test _____

8695 FINALS JWA 10/17/06

Prevmp ducts JWA 8/30/06

48.34 + 50 + 6

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 Plaza Dr. #100		CONTRACTOR Tri-City Builders inc	
LOT	TRACT	MAILING ADDRESS 2294 N Batavia St	
PROPOSED USE OFFICE		CITY Orange	STATE CA ZIP 92865
NEW / ADD / ALTER X / REPAIR / DEMOLISH / SPECIAL		TEL. 714 921 9361	STATE LIC. NO. 428337
OWNER RREEF	TEL. 714 751 0200	STATE LIC. CLASS B	CITY BUS. LIC.
MAILING ADDRESS 575 Anton Suite 550		ARCHITECT OR ENGINEER SAA - (JesusPasillas)	
CITY Costa Mesa	STATE CA ZIP 92626	STATE LIC. NO. 23617	TEL. 949-724-8958

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST. II-A	DATE	FRONT YARD	RIGHT SIDE YARD / LEFT SIDE YARD / REAR YARD
ZONE	JOB DESCRIPTION Tenant Improvements to include new workstations & office with Metal studs & Gypsum Board			PLANNING DEPT. APPROVAL KM	ENGINEERING DEPT. APPROVAL / LOT SIZE
				LIMITED TIME USE FROM	LIMITED TIME USE TO
				AREA SQ. FT. 6197	NO. STORIES 5 / ROOF COVERING / FENCING - LIN. FT.
				VALUATION 185910	

5665 PLAZA DR.

PLUMBING PERMIT

NO.	ITEM		AMOUNT
	WATER CLOSET	7.25	
	BATH TUB	7.25	
	SHOWER	7.25	
	LAVATORY	7.25	
	SINK	7.25	
	DISHWASHER	7.25	
	LAUNDRY TUB	7.25	
	CLOTHES WASHER	7.25	
	FLOOR DRAIN	7.25	
	FLOOR SINK	7.25	
	MISC.	7.25	
	MISC.	7.25	
	MISC.	7.25	

NO.	ITEM		AMOUNT
	WATER HEATER	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5	1.00	
	VACUUM BREAKER	9.00	
	INSTALL OR ALTER WATER SYSTEM	3.75	
	INSTALL OR ALTER WASTE OR VENTS	3.75	
	HOUSE SEWER	54.00	
	CONNECT ADD. H.S.	3.75	
	P-TRAP POOL DRN.	7.25	
	SEWER CAP	7.25	
	PLUMBING PERMIT	18.00	
	PLUMBING TOTAL $		

MECHANICAL / HEATING PERMIT

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	11.00	
	OVER 100M	13.25	
11	DUCT ALT. or ADD	8.00	88-
	KITCHEN - BATH VENT	5.50	
	COMM. HOOD	11.00	
	A.C. UNIT	11.00	
	WALL FURNACE / F.P.	11.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5 COST EACH	1.00	
	SMOKE / FIRE DAMPER	8.00	
	MISC.	11.00	
	HEATING PERMIT	18.00	18-
	HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS / SWITCHES / SMOKE DETECTORS	1 to 20	20	1.00	20.00
	OVER 20	72	.60	46.20
LIGHTING FIXTURES		60	1.00	60.00
RANGE - OVEN - GARBAGE DISPOSAL			3.75	
DISHWASHER - KITCHEN FAN			3.75	
CLOTHES WASHER/DRYER			3.75	
WATER HTR. POOL HTR. SPACE HTR.			3.75	
NEW RESIDENTIAL OUTLETS			.042 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.75	
	1 - 10		9.00	
	10 - 50		18.00	
MISC. / ARC FAULT			13.25	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		22.50	
	SERVICE 600V OVER 200A		45.00	
	SERVICE 600V OVER 400A		90.00	
PANEL BOARD			13.25	
TRANSFORMERS			13.25	
SWIM POOL/SPA			36.00	
TIME CLOCK			3.75	
SIGNS	NO. TRANS. / BALLASTS / INVERTERS		18.00	
	NO. LAMPS / LETTERS		3.75	
TEMPORARY POWER POLES			18.00	
SUPPLEMENTARY PERMIT			6.00	
PERMIT FEE		1	18.00	18-
			TOTAL FEE $	244.20

FEE SUMMARY

BUILDING PLAN CHECK	3620-11	746.20
ENERGY PLAN CHECK		287.00
MECHANICAL/PLUMBING PLAN CHK.		172.20
ELECTRICAL PLAN CHECK		172.20
ADMINISTRATIVE FEE		
		1377.60

BUILDING PERMIT FEE	3200-11	1148.00 + 35.00
S. B. 1374 (1 or 2)	2001-11	39.04
PLUMBING PERMIT	3201-11	
HEATING PERMIT	3202-11	88.00
ELECTRICAL PERMIT	3203-11	244.20
TOTAL AMOUNT DUE $		1472.24

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended. I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 89560

Signature of Permitee _____ Building Dept. Otsuka 10-29-08

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 Building Permit Application rev. 03-06 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: B License No. 628357 Exp. Date: 9/30/09

Signature _____

TO ALL PERMITTEES: *In accordance with AB 443, the Workers' Compensation insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.*

WORKERS' COMPENSATION INSURANCE DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier State Fund

Policy Number 0009683

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

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☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: _____ Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P.	
Setbacks	
Soil Work	
Uffer	
Footings	
Grout/Steel	
Gr. Work	
UG Elect	11/12/08 Danny
Slab	
Joists	
Pre-roof	
Sheath	
In Prog.	
R. Plbg.	
Ducts	11/10/08 Danny
R.Elect.	11/12/08 Danny
Conduit	
Framing	11/12/08 Danny
Sewer	
Insulation	
Drywall	11/18/08 Danny
Ext. Lath	
Sc. Coat	
T-Bar	12/17/08 Danny
Gas Test	

#E9560 **FINALS** Danny 12/29/08

11/10/08 DUCT PRE-WRAP — Danny

12/11/08 OCFA FINAL — DAVE M.

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 Plaza #100		CONTRACTOR Simplex Grinnell	
LOT	TRACT	MAILING ADDRESS 1701 W. Cerritos Ave.	
PROPOSED USE		CITY Anaheim STATE Ca. ZIP	
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. 714-870-1010	STATE LIC. NO. 802591
OWNER US Merchants TEL.		STATE LIC. CLASS C-10, C-7	CITY BUS. LIC.
MAILING ADDRESS		ARCHITECT OR ENGINEER N/A	
CITY STATE ZIP		STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL		LOT SIZE
				LIMITED TIME USE FROM		LIMITED TIME USE TO	
	fire alarm			AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING – LIN. FT.
				VALUATION			

155838

PLUMBING PERMIT

NO.	ITEM		AMOUNT	NO.	ITEM		AMOUNT
	WATER CLOSET	7.25			WATER HEATER	9.00	
	BATH TUB	7.25			GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	SHOWER	7.25			OUTLET OVER 5	1.00	
	LAVATORY	7.25			VACUUM BREAKER	9.00	
	SINK	7.25			INSTALL OR ALTER WATER SYSTEM	3.75	
	DISHWASHER	7.25			INSTALL OR ALTER WASTE OR VENTS	3.75	
	LAUNDRY TUB	7.25			HOUSE SEWER	54.00	
	CLOTHES WASHER	7.25			CONNECT ADD. H.S.	3.75	
	FLOOR DRAIN	7.25			P-TRAP POOL DRN.	7.25	
	FLOOR SINK	7.25			SEWER CAP	7.25	
	MISC.	7.25					
	MISC.	7.25			PLUMBING PERMIT	18.00	
	MISC.	7.25			PLUMBING TOTAL $		

MECHANICAL / HEATING PERMIT

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	11.00	
	OVER 100M	13.25	
	DUCT ALT. or ADD	8.00	
	KITCHEN - BATH VENT	5.50	
	COMM. HOOD	11.00	
	A.C. UNIT	11.00	
	WALL FURNACE / F.P.	11.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5 COST EACH	1.00	
	SMOKE / FIRE DAMPER	8.00	
	MISC.	11.00	
	HEATING PERMIT	18.00	
	HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE	ITEM		NO.	EACH	FEE
OUTLETS / SWITCHES / SMOKE DETECTORS	1 to 20		1.00		EACH METER	SERVICE 0-600V NOT OVER 200A		22.50	
	OVER 20		.60			SERVICE 600V OVER 200A		45.00	
LIGHTING FIXTURES			1.00			SERVICE 600V OVER 400A		90.00	
RANGE - OVEN - GARBAGE DISPOSAL			3.75		PANEL BOARD			13.25	
DISHWASHER - KITCHEN FAN			3.75		TRANSFORMERS			13.25	
CLOTHES WASHER/DRYER			3.75		SWIM POOL/SPA			36.00	
WATER HTR. POOL HTR. SPACE HTR.			3.75		TIME CLOCK			3.75	
NEW RESIDENTIAL OUTLETS			.042 Sq./Ft		SIGNS	NO. TRANS. / BALLASTS / INVERTERS		18.00	
MOTORS OVER INC. HP	0 - 1		3.75			NO. LAMPS / LETTERS		3.75	
	1 - 10		9.00		TEMPORARY POWER POLES			18.00	
	10 - 50		18.00		SUPPLEMENTARY PERMIT			6.00	
MISC. / ARC FAULT			13.25		PERMIT FEE			18.00	
								TOTAL FEE $	

FEE SUMMARY

BUILDING PLAN CHECK 3620-11		BUILDING PERMIT FEE 3200-11	[redacted] + 35 —
ENERGY PLAN CHECK		S. B. 1374 (1 or 2) 2001-11	[redacted]
MECHANICAL/PLUMBING PLAN CHK.		PLUMBING PERMIT 3201-11	
ELECTRICAL PLAN CHECK		HEATING PERMIT 3201-11	
ADMINISTRATIVE FEE		ELECTRICAL PERMIT 3202-11	
		TOTAL AMOUNT DUE $	[redacted]

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended. I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 89578

Signature of Permittee [signature] Building Dept. [signature] 11-4-08

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

	11/04/2008
	11/04/2008
	11/04/2008
	11/04/2008

B-1 Building Permit Application rev. 03-06 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: B-10/C-10 License No: 802591 Exp. Date: 12.31.09

Signature: [signature]

***TO ALL PERMITTEES:** In accordance with AB 443, the Workers' Compensation Insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation Insurance policy.*

WORKERS' COMPENSATION INSURANCE DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: 9665 PLAZA DR. STE 108 Cypress CA. 90630

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☑ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier Nat'l Union Fire Ins. Co. of Pittsburg, PA.

Policy Number WC 1872471 EXP. 10.01.09

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: 11.04.08 Applicant: Jason Lassman

Signature: [signature]

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: _____ Signature: [signature]

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P.	
Setbacks	
Soil Work	
Uffer	
Footings	
Grout/Steel	
Gr. Work	
UG Elect	
Slab	
Joists	
Pre-roof	
Sheath	
In Prog.	
R. Plbg.	
Ducts	
R.Elect.	
Conduit	
Framing	
Sewer	
Insulation	
Drywall	
Ext. Lath	
Sc. Coat	
T-Bar	
Gas Test	
#89578 FINALS	DONNY Q 12/29/08

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

2.73 + 50 + 40

JOB ADDRESS 5665 Plaza Dr. 3rd Floor	CONTRACTOR Paradigm Construction Inc
LOT / TRACT	MAILING ADDRESS 7271 Garden Grove #G
PROPOSED USE	CITY Garden Grove STATE CA ZIP 92841
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL	TEL. 714 799 3239 STATE LIC. NO. 797875
OWNER TUI Univ. TEL.	STATE LIC. CLASS 797875 B C10 CITY BUS. LIC.
MAILING ADDRESS	ARCHITECT OR ENGINEER SAA
CITY STATE ZIP	STATE LIC. NO. TEL.

5665 PLAZA DRIVE

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST. II-A	DATE 7-9-09
ZONE	JOB DESCRIPTION Comercial Tenant Improvement to include (1) New break room w/ new metal studs w/ 5/8" type "X" gyp. Bd.		

FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
PLANNING DEPT. APPROVAL KW	ENGINEERING DEPT. APPROVAL		LOT SIZE
LIMITED TIME USE FROM		LIMITED TIME USE TO	
AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING – LIN. FT.
VALUATION 1464 10,500			

PLUMBING PERMIT

NO.	ITEM		AMOUNT
	WATER CLOSET	7.25	
	BATH TUB	7.25	
	SHOWER	7.25	
	LAVATORY	7.25	
1	SINK	7.25	7.25
	DISHWASHER	7.25	
	LAUNDRY TUB	7.25	
	CLOTHES WASHER	7.25	
	FLOOR DRAIN	7.25	
	FLOOR SINK	7.25	
	MISC.	7.25	
	MISC.	7.25	
	MISC.	7.25	

NO.	ITEM		AMOUNT
1	WATER HEATER	9.00	9–
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5	1.00	
	VACUUM BREAKER	9.00	
	INSTALL OR ALTER WATER SYSTEM	3.75	
	INSTALL OR ALTER WASTE OR VENTS	3.75	
	HOUSE SEWER	54.00	
	CONNECT ADD. H.S.	3.75	
	P-TRAP POOL DRN.	7.25	
	SEWER CAP	7.25	
	PLUMBING PERMIT	18.00	18–
	PLUMBING TOTAL $		34.25

MECHANICAL / HEATING PERMIT

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	11.00	
	OVER 100M	13.25	
	DUCT ALT. or ADD	8.00	
1	KITCHEN - BATH VENT	5.50	5.50
	COMM. HOOD	11.00	
	A.C. UNIT	11.00	
	WALL FURNACE / F.P.	11.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5 COST EACH	1.00	
	SMOKE / FIRE DAMPER	8.00	
	MISC.	11.00	
	HEATING PERMIT	18.00	18–
	HEATING TOTAL $		23.50

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS / SWITCHES / SMOKE DETECTORS $-11	1 to 20	12	1.00	12–
	OVER 20		.60	
LIGHTING FIXTURES		2	1.00	2–
RANGE - OVEN - GARBAGE DISPOSAL			3.75	
DISHWASHER - KITCHEN FAN			3.75	
CLOTHES WASHER/DRYER			3.75	
WATER HTR. POOL HTR. SPACE HTR.			3.75	
NEW RESIDENTIAL OUTLETS			.042 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.75	
	1 - 10	1	9.00	9–
	10 - 50		18.00	
MISC. / ARC FAULT			13.25	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		22.50	
	SERVICE 600V OVER 200A		45.00	
	SERVICE 600V OVER 400A		90.00	
PANEL BOARD			13.25	
TRANSFORMERS			13.25	
SWIM POOL/SPA			36.00	
TIME CLOCK			3.75	
SIGNS	NO. TRANS. / BALLASTS / INVERTERS		18.00	
	NO. LAMPS / LETTERS		3.75	
TEMPORARY POWER POLES			18.00	
SUPPLEMENTARY PERMIT			6.00	
PERMIT FEE		1	18.00	18–
			TOTAL FEE $	41–

BUILDING PLAN CHECK 3620-11	27.63 PC	ADJUST FEE SUMMARY SB 1473	1.00
ENERGY PLAN CHECK		72.15 due	
MECHANICAL/PLUMBING PLAN CHK.			
ELECTRICAL PLAN CHECK			
ADMINISTRATIVE FEE			

BUILDING PERMIT FEE	3200-11	153.50 + 35.00
S. B. 1374 (1 or 2)	2001-11	2.21
PLUMBING PERMIT	3201-11	34.25
HEATING PERMIT	3201-11	23.50
ELECTRICAL PERMIT	3202-11	41.00
TOTAL AMOUNT DUE $		362.61

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended. I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

Signature of Permitee _____ Building Dept. Otsuka 8-17-09

PERMIT NUMBER 90365

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

B-1 Building Permit Application rev. 03-06 Disbursement: White - Inspector's Copy / Canary - Applicant / Pink - Cashier / Goldenrod - Cashier

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: B C10 License No. 797875 Exp. Date: 7/31/10

Signature _____

***TO ALL PERMITTEES:** In accordance with AB 443, the Workers' Compensation Insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.*

WORKERS' COMPENSATION INSURANCE DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier Majestic Insurance

Policy Number 0200804666702

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section _____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 8/17/09 Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P.		
Setbacks		
Soil Work		
Uffer		
Footings		
Grout/Steel		
Gr. Work		
UG Elect		
Slab		
Joists		
Pre-roof		
Sheath		
In Prog.		
R. Plbg.	9/1/09	Danny
Ducts	9/3/09	Danny
R.Elect.	9/1/09	Danny
Conduit		
Framing	9/1/09	Danny
Sewer		
Insulation	9/2/09	Danny
Drywall	9/3/09	Danny
Ext. Lath		
Sc. Coat		
T-Bar	9/4/09	EB
Gas Test		
90365	FINALS	9/16/09 EB

9/2/09 FIRECAULKED BETWEEN FLOOR PLUMBING - Danny

City of Cypress
5275 Orange Avenue
Cypress, CA 90630

10365

Date	8/17/2009
Receipt	2010-00002323
Cashier	Denise Yarbrough
Received From	Paradise Const

BLT	92.73
PLN CK	72.15
REVOLVING FUND	1.00
BP	188.50
CMSVTN	2.21
PHP	34.25
PHP	23.50
EP	41.00
Receipt Total	455.34
Total Check	455.34
Total Remitted	455.34
Total Received	455.34

5665 Plaza Dr.

for Sarah

City of Cypress
5275 Orange Avenue
Cypress, CA 90630

Date	7/9/2009
Receipt	2010-00000268
Cashier	Denise Yarbrough
Received From	Shlemmer

PLN CK	27.63
Receipt Total	27.63
Total Check	27.63
Total Remitted	27.63
Total Received	27.63

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

JOB ADDRESS 5665 PLAZA DR, CYPRESS	CONTRACTOR Certified Fire Extinguisher
LOT / TRACT	MAILING ADDRESS 8710 NORWALK BLVD
PROPOSED USE	CITY Whittier STATE CA ZIP 90606
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL	TEL 5626925637 STATE LIC. NO. 461825
OWNER KREEF TEL.	STATE LIC. CLASS C-16 CITY BUS. LIC.
MAILING ADDRESS 575 Anton Blvd #550	ARCHITECT OR ENGINEER
CITY Costa Mesa STATE CA ZIP 92626	STATE LIC. NO. TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL		ENGINEERING DEPT. APPROVAL	LOT SIZE
Install 4 and Relocate 3 FM2 Sprinklers				LIMITED TIME USE FROM		LIMITED TIME USE TO	
				AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING -- LIN. FT.
				VALUATION			

SR # 143576

PLUMBING PERMIT

NO.	ITEM		AMOUNT
	WATER CLOSET	7.25	
	BATH TUB	7.25	
	SHOWER	7.25	
	LAVATORY	7.25	
	SINK	7.25	
	DISHWASHER	7.25	
	LAUNDRY TUB	7.25	
	CLOTHES WASHER	7.25	
	FLOOR DRAIN	7.25	
	FLOOR SINK	7.25	
	MISC.	7.25	
	MISC.	7.25	
	MISC.	7.25	

NO.	ITEM		AMOUNT
	WATER HEATER	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5	1.00	
	VACUUM BREAKER	9.00	
	INSTALL OR ALTER WATER SYSTEM	3.75	
	INSTALL OR ALTER WASTE OR VENTS	3.75	
	HOUSE SEWER / G.I.	54.00	
	CONNECT ADD. H.S.	3.75	
	P-TRAP POOL DRN.	7.25	
	SEWER CAP	7.25	
	PLUMBING PERMIT	18.00	
	PLUMBING TOTAL $		

MECHANICAL / HEATING PERMIT

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	11.00	
	OVER 100M	13.25	
	DUCT ALT. or ADD	8.00	
	KITCHEN - BATH VENT	5.50	
	COMM. HOOD	11.00	
	A.C. UNIT	11.00	
	WALL FURNACE / F.P.	11.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5 COST EACH	1.00	
	SMOKE / FIRE DAMPER	8.00	
	MISC.	11.00	
	HEATING PERMIT	18.00	
	HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS / SWITCHES / SMOKE DETECTORS	1 to 20		1.00	
	OVER 20		.60	
LIGHTING FIXTURES			1.00	
RANGE - OVEN - GARBAGE DISPOSAL			3.75	
DISHWASHER - KITCHEN FAN			3.75	
CLOTHES WASHER/DRYER			3.75	
WATER HTR. POOL HTR. SPACE HTR.			3.75	
NEW RESIDENTIAL OUTLETS			.042 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.75	
	1 - 10		9.00	
	10 - 50		18.00	
MISC. / ARC FAULT			13.25	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		22.50	
	SERVICE 600V OVER 200A		45.00	
	SERVICE 600V OVER 400A		90.00	
PANEL BOARD			13.25	
TRANSFORMERS			13.25	
SWIM POOL/SPA			36.00	
TIME CLOCK			3.75	
SIGNS	NO. TRANS. / BALLASTS / INVERTERS		18.00	
TEMPORARY POWER POLES			18.00	
SUPPLEMENTARY PERMIT			6.00	
PERMIT FEE			18.00	
			TOTAL FEE $	

FEE SUMMARY

PC #	
BUILDING PLAN CHECK 3620-11	
ENERGY PLAN CHECK	
MECHANICAL/PLUMBING PLAN CHK.	
ELECTRICAL PLAN CHECK	
ACCELERATED FEE	

ADMINISTRATIVE FEE	3200-11	35 -
BUILDING PERMIT FEE	3200-11	
S. B. 1374 [1 OF 2]	2001-11	
PLUMBING PERMIT	3201-11	
HEATING PERMIT	3201-11	
ELECTRICAL PERMIT	3202-11	
TOTAL AMOUNT DUE $		35 -

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended. I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 90438

Signature of Permitee _____ Building Dept. Ofsuka 9-2-09

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: C-16 License No. 461825 Exp. Date: 8/31/2010

Signature _____

***TO ALL PERMITTEES:** In accordance with AB 443, the Workers' Compensation Insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.*

WORKERS' COMPENSATION INSURANCE DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☒ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier Southern Ins Co.

Policy Number WISO024242-01

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section_____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 9/24/09 Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT **NAME** _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS _____

City of Cypress
5275 Orange Avenue
Cypress, CA 90630

Date 9/2/2009
Receipt 2010-00002896
Cashier Johanna Reyes-Pavon
Received FromCertified Fire Extinguisher S
ervice

BP	35.00
Receipt Total	35.00
Total Check	35.00
Total Remitted	35.00
Total Received	35.00

BUILDING DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 229-6730

11.70 + 9 +

JOB ADDRESS 9665 Plaza Drive 3rd FLOOR		CONTRACTOR Amaron Construction Corp	
LOT	TRACT	MAILING ADDRESS 1565 N. Harmony Circle	
PROPOSED USE		CITY Anaheim Hills	STATE Ca ZIP 92807
NEW / ADD / ALTER ✓ / REPAIR / DEMOLISH / SPECIAL		TEL. 714 993 9220	STATE LIC. NO. 674301
OWNER Toyo Tire	TEL.	STATE LIC. CLASS B	CITY BUS. LIC.
MAILING ADDRESS		ARCHITECT OR ENGINEER	
CITY	STATE ZIP	STATE LIC. NO.	TEL.

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE	FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
ZONE	JOB DESCRIPTION			PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL		LOT SIZE
Remodel Mens/Womens Restroom ELEVator Lobby @ All 3rd floor Plumbing, Drywall ELECTrical				LIMITED TIME USE FROM	LIMITED TIME USE TO		
				AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING -- LIN. FT.
				VALUATION 10,500 45,000			

SR #

PLUMBING PERMIT

NO.	ITEM		AMOUNT
	WATER CLOSET	7.25	
	BATH TUB	7.25	
	SHOWER	7.25	
8	LAVATORY	7.25	58.00
	SINK	7.25	
	DISHWASHER	7.25	
	LAUNDRY TUB	7.25	
	CLOTHES WASHER	7.25	
	FLOOR DRAIN	7.25	
	FLOOR SINK	7.25	
	MISC.	7.25	
	MISC.	7.25	
	MISC.	7.25	

NO.	ITEM		AMOUNT
	WATER HEATER	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5	1.00	
	VACUUM BREAKER	9.00	
1	INSTALL OR ALTER WATER SYSTEM	3.75	3.75
	INSTALL OR ALTER WASTE OR VENTS	3.75	
	HOUSE SEWER / G.I.	54.00	
	CONNECT ADD. H.S.	3.75	
	P-TRAP POOL DRN.	7.25	
	SEWER CAP	7.25	
1	PLUMBING PERMIT	18.00	18.00
	PLUMBING TOTAL $		79.75

MECHANICAL / HEATING PERMIT

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	11.00	
	OVER 100M	13.25	
	DUCT ALT. or ADD	8.00	
	KITCHEN - BATH VENT	5.50	
	COMM. HOOD	11.00	
	A.C. UNIT	11.00	
	WALL FURNACE / F.P.	11.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5 COST EACH	1.00	
	SMOKE / FIRE DAMPER	8.00	
	MISC.	11.00	
	HEATING PERMIT	18.00	
	HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS / SWITCHES / SMOKE DETECTORS	1 to 20		1.00	
	OVER 20		.60	
LIGHTING FIXTURES		12	1.00	12.00
RANGE - OVEN - GARBAGE DISPOSAL			3.75	
DISHWASHER - KITCHEN FAN			3.75	
CLOTHES WASHER/DRYER			3.75	
WATER HTR. POOL HTR. SPACE HTR.			3.75	
NEW RESIDENTIAL OUTLETS			.042 Sq./Ft	
MOTORS OVER INC. HP	0 - 1		3.75	
	1 - 10		9.00	
	10 - 50		18.00	
MISC. / ARC FAULT			13.25	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		22.50	
	SERVICE 600V OVER 200A		45.00	
	SERVICE 600V OVER 400A		90.00	
PANEL BOARD			13.25	
TRANSFORMERS			13.25	
SWIM POOL/SPA			36.00	
TIME CLOCK			3.75	
SIGNS	NO. TRANS. / BALLASTS / INVERTERS		18.00	
TEMPORARY POWER POLES			18.00	
SUPPLEMENTARY PERMIT			6.00	
PERMIT FEE			18.00	18.00
			TOTAL FEE $	30.00

FEE SUMMARY

SB 1473 1.00

PC #		
BUILDING PLAN CHECK	3620-11	303.88
ENERGY PLAN CHECK		
MECHANICAL/PLUMBING PLAN CHK.		
ELECTRICAL PLAN CHECK		
ACCELERATED FEE		
		303.88

ADMINISTRATIVE FEE	3200-11	3.50
BUILDING PERMIT FEE	3200-11	467.50
S. B. 1374 (1 or 2)	2001-11	9.45
PLUMBING PERMIT	3201-11	79.75
HEATING PERMIT	3201-11	-
ELECTRICAL PERMIT	3202-11	30.00
TOTAL AMOUNT DUE $		897.58

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended. I certify that I am properly registered and/or licensed as required by City of Cypress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 92617

Signature of Permitee _____ Building Dept. _____ 7-21-11

THIS RECEIPT IS VALID ONLY WHEN TRANSACTION NUMBER, DATE AND RECEIPT ARE IMPRINTED BELOW.

LICENSED DECLARATION: I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class: B License No. 674301 Exp. Date: 7/31/2013

Signature _____

***TO ALL PERMITTEES:** In accordance with AB 443, the Workers' Compensation Insurance declaration required by Health and Safety Code, Section 19825, has been amended to include the statements following this explanation. The law now places responsibility with the contractor to provide insurance as a condition of the license. By completing this declaration, the contractor permittee takes full responsibility to provide the insurance and the contractor no longer needs to provide the issuing jurisdiction a copy of the Workers' Compensation insurance policy.*

WORKERS' COMPENSATION INSURANCE DECLARATION
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation , as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier Everest National Insurance Company

Policy Number 7600001379111

This section need not be completed if the permit is for one hundred dollars ($100) or less

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____

Signature: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit shall be subject to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of a property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner will have the burden of proving he did not build or improve for the purpose of sale.)

☐ I, as sole owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's License law does not apply to an owner of a property who builds or improves thereon, and who contracts from such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)

☐ I am exempt under Section_____ B. & P. C. for this reason

Date: _____ Owner: _____

I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Date: 7/21/11 Signature _____

City License _____

HAZARDOUS MATERIAL DECLARATION

☐ YES ☐ NO WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

☐ YES ☐ NO WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) ? SEE PERMITTING CHECKLIST FOR GUIDELINES.

PRINT NAME _____

☐ YES ☐ NO WILL THE PROPOSED BUILDING OR MODIFIED FACILITY BE WITHIN 1000 FEET OF THE OUTER BOUNDARY OF A SCHOOL?

☐ YES ☐ NO I HAVE READ THE HAZARDOUS MATERIAL GUIDE AND SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE STATE OF CALIFORNIA HEALTH AND SAFETY CODE, SECTION 25505, 25533, AND 25534 CONCERNING HAZARDOUS MATERIALS REPORTING.

Owner or authorized agent _____

INSPECTION RECORD

T. P. P.	
Setbacks	
Soil Work	
Uffer	
Footings	
Grout/Steel	
Gr. Work	
UG Elect	
Slab	
Joists	
Pre-roof	
Sheath	
In Prog.	
R. Plbg.	7/29/11 Danny
Ducts	
R.Elect.	
Conduit	
Framing	
Sewer	
Insulation	
Drywall	8/2/11 Danny
Ext. Lath	
Sc. Coat	
T-Bar	
Gas Test	

92617 FINALS Danny 9/16/11

7/29/11 - R/A ROUGH PLUMBING @ MAIN ROOM ONLY Danny

IG DIVISION PERMIT APPLICATION

City of Cypress 5275 Orange Avenue Cypress, CA 90630 Phone (714) 2

JOB ADDRESS 5665 PLAZA DR. - 4TH FLR COMM.		CONTRACTOR SST, INC.	
LOT	TRACT	MAILING ADDRESS 9 GOODYEAR	
PROPOSED USE FIRE ALARM UPGRADE		CITY IRVINE	STATE CA ZIP 92618
NEW / ADD / ALTER / REPAIR / DEMOLISH / SPECIAL		TEL. 949.367-9375	STATE LIC. NO. C10 - 766364
OWNER TRANSWESTERN	TEL.	STATE LIC. CLASS C10	CITY BUS. LIC.
MAILING ADDRESS		ARCHITECT OR ENGINEER ROD SOLIS	
CITY / STATE / ZIP		STATE LIC. NO.	TEL. 323-788-0915

BUILDING PERMIT

FIRE ZONE	GROUP	TYPE CONST.	DATE
ZONE	JOB DESCRIPTION		
	FIRE ALARM		

FRONT YARD	RIGHT SIDE YARD	LEFT SIDE YARD	REAR YARD
PLANNING DEPT. APPROVAL	ENGINEERING DEPT. APPROVAL	LOT SIZE	
LIMITED TIME USE FROM:		LIMITED TIME USE TO:	
AREA SQ. FT.	NO. STORIES	ROOF COVERING	FENCING – LIN. FT.
VALUATION			

SR # 5665 PLAZA DR

PLUMBING PERMIT

NO.	ITEM		AMOUNT
	WATER CLOSET	7.25	
	BATH TUB	7.25	
	SHOWER	7.25	
	LAVATORY	7.25	
	SINK	7.25	
	DISHWASHER	7.25	
	LAUNDRY TUB	7.25	
	CLOTHES WASHER	7.25	
	FLOOR DRAIN	7.25	
	FLOOR SINK	7.25	
	MISC.	7.25	
	MISC.	7.25	
	MISC.	7.25	

NO.	ITEM		AMOUNT
	WATER HEATER	9.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5	1.00	
	VACUUM BREAKER	9.00	
	INSTALL OR ALTER WATER SYSTEM	3.75	
	INSTALL OR ALTER WASTE OR VENTS	3.75	
	HOUSE SEWER / GI	54.00	
	CONNECT ADD. H.S.	3.75	
	P-TRAP POOL DRAIN	7.25	
	SEWER CAP	7.25	
	PLUMBING PERMIT	18.00	
	PLUMBING TOTAL $		

MECHANICAL / HEATING PERMIT

NO.	ITEM		AMOUNT
	F.A.U. 1 - 100M	11.00	
	OVER 100M	13.25	
	DUCT ALT. or ADD	8.00	
	KITCHEN BATH VENT	5.50	
	COMM. HOOD	11.00	
	A.C. UNIT	11.00	
	WALL FURNACE / F.P.	11.00	
	GAS SYSTEM (UP TO 5 OUTLET)	3.75	
	OUTLET OVER 5 COST EACH	1.00	
	SMOKE / FIRE DAMPER	8.00	
	MISC.	11.00	
	HEATING PERMIT	18.00	
	HEATING TOTAL $		

ELECTRICAL PERMIT

ITEM		NO.	EACH	FEE
OUTLETS / SWITCHES / SMOKE DETECTORS	1 to 20		1.00	
	OVER 20		.60	
LIGHTING FIXTURES			1.00	
RANGE - OVEN - GARBAGE DISPOSAL			3.75	
DISHWASHER - KITCHEN FAN			3.75	
CLOTHES WASHER / DRYER			3.75	
WATER HTR. POOL HTR. SPACE HTR.			3.75	
NEW RESIDENTIAL OUTLETS			.042 Sq/Ft	
MOTORS OVER INC. HP	0 - 1		3.75	
	1 - 10		9.00	
	10 - 50		18.00	
MISC. / ARC FAULT			13.25	

ITEM		NO.	EACH	FEE
EACH METER	SERVICE 0-600V NOT OVER 200A		22.50	
	SERVICE 600V OVER 200A		45.00	
	SERVICE 600V OVER 400A		90.00	
PANEL BOARD			13.25	
TRANSFORMERS			13.25	
SWIM POOL / SPA			36.00	
TIME CLOCK			3.75	
SIGNS	NO. TRANS. / BALLASTS / INVERTERS		18.00	
TEMPORARY POWER POLES			18.00	
SUPPLEMENTARY PERMIT			6.00	
PERMIT FEE			18.00	
			TOTAL FEE $	

FEE SUMMARY

PC # SR. 187059	
PLAN CHECK	
ENERGY PLAN CHECK	
MECHANICA/PLUMBING PLAN CHECK	
ELECTRICAL PLAN CHECK	
ACCELERATED FEE	
TOTAL PLAN CHECK DUE $	

REVOLVING FUND	SB 1473	
BP	BUILDING ADMIN	35.00
BP	BUILDING FEE	
CNSVTN	SB 1374	
PHP	PLUMBING FEE	
PHP	HEATING FEE	
EP	ELECTRICAL FEE	
TOTAL AMOUNT DUE $		35.00

I have read the front and back of this application and state that the information is correct and agree to comply with all City ordinances and State Laws regulating the work for which this permit is intended. I certify that I am properly registered and/or licensed as required by City of CYpress and State of California or that I am the legal owner of the above described property.

PERMIT NUMBER 94405

Signature of Permitee: _____ Building Dept. _____ 2.11.13

- THIS RECEIPT IS VALID ONLY WHEN AUTHORIZED BY THE CITY'S FINANCE DIVISION -

LICENSED CONTRACTORS' DECLARATION: I hereby affirm that I am licensed under the provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Lic. Class: _____ Lic. No. _____ Exp. Date: _____

Signature _____

- WORKERS' COMPENSATION INSURANCE DECLARATION -
THIS DECLARATION BECOMES A PART OF THE PERMANENT PERMIT RECORD:

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

Job Address: _____

Permit No. _____ Issuance Date _____

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, issued by the Director of Industrial Relations as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

Policy No. _____

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier _____ Policy Number _____

Name of Agent _____ Phone # _____

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date: _____ Applicant: _____ Signature: _____

OWNER BUILDER DECLARATION: I hereby affirm that I am exempt from the Contractor's License Law for the reasons listed belowby the checkmark(s) I have placed next to the applicable item(s). (Section 7031.5, Business and Professions Code: Any city which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provision of the Contractor's License law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt from licensure and the basis for the alleged exemption. Any violation of Section 7031.5 by an applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

☐ I, as owner of the property or my employees with wages as their sole compensation, will do (___) all of or (___) portions of the work, and the structure is not intended or offered for sale. (Section 7044, Business and Professions Code: The Contractor's State License Law does not apply to an owner of a property who, through employees' or personal effort, builds or improves the property, provided that the improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the Owner-Builder will have the burden of proving that it was not built or improved for the purpose of sale.)

☐ I, as owner of the property, am exclusively contracting with licensed Contractors to construct the project (Section 7044, Business and Professions Code: The Contractor's State License law does not apply to an owner of a property who builds or improves thereon, and who contracts for the projects with a licensed Contractor pursuant to the Contractor's State License Law.)

☐ I am exempt from licensure under the Contractor's State License Law for the following reason:

_____

Date: _____ Name of Owner: _____

By my signature below I acknowledge that, except for my personal residence in which I must have resided for at least one year prior to completion of the improvements covered by this permit, I cannot legally sell a structure that I have built as an owner-builder if it has not been constructed in its entirety by licensed contractors. I understand that a copy of the applicable law, Section 7044 of the Business and Professions Code, is available upon request when this application is submitted or at the following Web site:

http://www.legalinfo.ca.gov/calaw.html

DECLARATION REGARDING CONSTRUCTION LENDING AGENCY

I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Section 3097, Civil Code).

Lender's Name. _____

Lender's Address

_____

By my signature below, I certify to each of the following:

I am the property owner or authorized to act on the property owner's behalf.

I have read this application and the information I have provided is correct.

I agree to comply with all applicable city and county ordinances and state laws relating to building construction.

I authorize representatives of this city or county to enter the above-identitifed property for inspection purposes.

Signature of Property Owner or Authorized Agent _____ Date 2-11-13

INSPECTION RECORD

T. P. P. _____
Setbacks _____
Soil Work _____
Uffer _____
Footings _____
Grout/Steel _____
Gr. Work _____
UG Elect _____
Slab _____
Joists _____
Pre-roof _____
Sheath _____
In Prog. _____
R. Plbg. _____
Ducts _____
R.Elect. _____
Conduit _____
Framing _____
Sewer _____
Insulation _____
Drywall _____
Ext. Lath _____
Sc. Coat _____
T-Bar _____
Gas Test _____

FINALS _____

Permit # _____

Job Address: 5665 Plaza Dr, Cypress, California 90630, #4TH FLOOR	**BUILDING DIVISION** Permit City of Cypress 5275 Orange Avenue Cypress, CA 90630 (714) 229-6730	Date: 4-15-2014	Permit Number: 950
Tract No: / Lot No: SR# / PC#		Permit Issued by: Andre Sanchez	

Residential: No Commercial: Yes New No Addition No Alter Yes Demo No

Planning Approval: Engineering Approval: Area Sq.ft. Valuation $7,000.00

Conditions:

Applicant Information:	RON BEGLEY / , , / Email - / Phone - (714) 371-7928
Owner Information:	TRANSWESTERN / , , / Email - / Phone - (714) 202-2929
Contractor Information:	ALTA CONSTRUCTION INCORPORATED/ 369 E BLAINE STREET- - Corona CA 92879 /24 Hour- Phone- (951) 279-2762/ License- 890027 - B / ID#664
Arch/Eng Information:	/ / License - / Email - / Phone - / / License - / Email - / Phone -

COMMENTS/CONDITIONS/PROJECT DESCRIPTION:

TENANT IMPROVEMENT WORK ON 270 SQ.FT. OF TOTAL AREA. NEW WALLS, POWER LIGHTING AND FINISHES. RELOCATE 4 LIGHTING FIXTURES, 2 EXIT SIGNS, 20 OUTLET/SWITCH, 22 NEW REGISTERS.

THIS PERMIT SHALL EXPIRE IF THE BUIDLING OR WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS. ALL WORK SHALL CONFORM TO THE 2010 CBC, CMC, CEC, CPC, CGC AND 2008 CA ENERGY CODE

FEES

Plan Check Fees		Permit Fees	
Building Plan Check:	$0.00	Administrative BP:	$35.00
Energy Plan Check:	$0.00	Building BP:	$109.50
Mech/Plumbing Plan Check:	$0.00	Plumbing PHP:	$0.00
Electrical Plan Check:	$0.00	Heating/Mechanical PHP:	$194.00
Expedited Plan Check:		Electrical EP:	$45.20
Other Plan Check:		Other:	
Total Plan Check Fees:	$0.00	Total Permit Fees:	$383.70

State Fees:		TOTAL FEES DUE	
CA Revolving Fee SB 1473:	$1.00	Total Plan Check Fees:	$0.00
CA SMIP CNSVTN:	$1.47	Total Permit Fees:	$383.70
Total State Fees:	$2.47	Total State Fees:	$2.47
		Total Fees Due	$386.17

OWNER BUILDER DECLARATION

I AM EXEMPT FROM THE CONTRACTORS LICENSE LAW FOR THE FOLLOWING REASON:

I, AS OWNER OF THE PROPERTY, OR MY EMPLOYEES WITH WAGES AS THEIR SOLE COMPENSATION, WILL DO THE WORK, AND THE STRUCTURE IS NOT INTENDED FOR, OR OFFERED FOR SALE (SECTION 7044, OF THE BUSINESS AND PROFESSIONS CODE).

I, AS OWNER OF THE PROPERTY AM EXCLUSIVELY CONTRACTING WITH LICENSED CONTRACTORS TO COMPLETE THE PERMITTED PROJECT UNDER THE PROVISIONS OF SECTION 7044, OF THE BUSINESS & PROFESSIONS CODE

FINANCE USE ONLY

OK CK # 1123

CERTIFICATE OF COMPLIANCE AND AUTHORIZING OF ENTRY: I certify I have read this application and state that the above information is correct. I agree to comply with all state laws and city ordinances and state laws relating to building construction, and authorize a representative of the Cypress to enter upon the property for which I have applied for this permit for the purpose of making inspections.

Applicant or Agent Date Building Department Date

5665 PLAZA DR. 4TH FLR

5665 PLAZA DR. 4TH FLR

LICENSED CONTRACTORS DECLARATION

I HEREBY CLAIM, UNDER PENALTY OF PERJURY, THE FOLLOWING STATEMENT: THAT I AM LICENSED UNDER PROVISIONS OF CHAPTER 9 COMMENCING WITH SECTION 7000 OF DIVISION 3 OF THE BUSINESS AND PROFESSIONS CODE, AND AT THIS TIME MY CONTRACTORS LICENSE IS CURRENT, ACTIVE AND IN FULL FORCE.

Contractor: ALTA CONSTRUCTION INCORPORATED/ 369 E BLAINE STREET- - Corona CA 92879 /24 Hour- Phone- (951) 279-2762/ License- 890027 - B / ID#664

CONTRACTOR TO PROVIDE ACCESS TO ROOF & ATTIC

X _____

WORKERS' COMPENSATION DECLARATION

____I HEREBY CLAIM, UNDER PENALTY OF PERJURY, ONE OF THE FOLLOWING STATEMENTS:

____I HAVE AND WILL MAINTAIN A CERTIFICATE OF CONSENT TO SELF INSURE FOR WORKERS COMPENSATION, AS PROVIDED FOR BY SECTION 3700 OF THE LABOR CODE FOR THE PERFORMANCE OF THE WORK FOR WHICH THIS PERMIT IS ISSUED.

____I HAVE AND WILL MAINTAIN COMPENSATION INSURANCE AS REQUIRED BY SECTION 3700 OF THE LABOR CODE FOR THE PERFORMANCE OF THE WORK WHICH THIS PERMIT IS ISSUED

Carrier: CYPRESS INSURANCE COMPANY
Policy #: 3300061786
Exp. Date: 6-24-2014

X _____

CERTIFICATE OF WORKERS COMPENSATION EXEMPTION

(THIS SECTION NEED NOT BE COMPLETED IF WORK IS $500 OR LESS)

No

____I CERTIFY UNDER PENALTY OF PERJURY THAT IN THE PERFORMANCE OF THE WORK FOR WHICH THIS PERMIT IS ISSUED, THAT I SHALL NOT EMPLOY ANY PERSON IN A MANNER SO AS TO BECOME SUBJECT TO THE WORKERS COMPENSATION LAWS OF CALIFORNIA, AND AGREE THAT IF I SHOULD BECOME SUBJECT TO THE WORKERS COMPENSATION PROVISIONS OF SECTION 3700 OF THE LABOR CODE THAT I SHALL FORWITH COMPLY WITH THOSE PROVISIONS.

Signature _____ Date _____

INSPECTION RECORD

T.P.P	
SETBACKS	
SOIL WORK	
UFER	
FOOTINGS	
GROUT/STEEL	
GR.WORK	
UG ELECT	
SLAB	
JOISTS	
PRE-ROOF	
SHEATH	
IN PROGRESS	
RO PLUMBING	
DUCTS	4.24.14 Denny
R.ELECT	4.16.14 Denny
CONDUIT	
FRAMING	4.16.14 Denny
SEWER	
INSULATION	
DRYWALL	4.17.14 Denny
EXT. LATH	
SC. COAT	
T-BAR	4.24.14 Denny
GAS TEST	
FINALS	Denny C 5.12.14

PERMIT# : 950 Date Permit Issued: 4-15-2014
Notes:

4.16.14 DUCT PRE-WRAP - Denny

[redacted] Construction O Yes ● No O Swimming Pool

S.P. [redacted] O [redacted] ● [redacted]

Misc Note [redacted] Construction Completion Date [redacted]

Ok for Final [redacted] Dr. Cypress, CA 90630, [redacted]

[redacted] build [redacted]

[redacted] Fax # 95 [redacted]

[redacted] below. Incomplete Information [redacted]

[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Accessible						
Air Conditioning						
Architect						
Asphalt						
Bankrades						
Cabinets						
Carpentry - Rough						
Carpentry - Finish						
[illegible]ing						

Please [illegible] information below. Incomplete information will [illegible] request.

TYPE OF WORK	[illegible]	ADDRESS	PHONE	[illegible]	[illegible]	CITY LIC#
Civil Engineer						
[illegible] Deck Coating						
Compaction						
Concrete Work						
Concrete - Light Weight/[illegible]						
Demolition						
Drywall						
Electrical						
Electrical Engineer						
Excavation						
Elevators						
Energy Consultant						
Fencing						
Fire Extinguishers						
Fire Protection Engineer						
Fire Sprinklers						
Framing						
Flooring						
Geologist						
Glass & Glazing						
Grading						

Please [illegible] information below. Incomplete information will [illegible] of your request.

TYPE OF [illegible]	[illegible]	ADDRESS	PHONE	[illegible]	[illegible]	CITY LIC#
Handyman						
Handyman						
Heating & A/C						
Inspector/Deputy						
Insulation						
Interior Decorator						
Landscape Architect						
Landscaping						
Lathing						
Marble						
Masonry						
Mechanical Engineer						
Metals / Misc & Ornamental						
Oil Spreading						
Painting/Decorating						
Paint/Restripe						
Paving						
Plastering						
Plumbing						
Rebar						
Refrigeration						

Please [illegible] Below. Incomplete information will [illegible] required

TYPE OF [illegible]	[illegible]	ADDRESS	PHONE	[illegible]	[illegible]	[illegible]
Roofing						
Security Alarm Co						
Sheetmetal Reinforcing						
Signs						
Soils Engineer						
Steel						
Structural Engineer						
Surveyor Registered						
Swimming Pool						
Tile - Ceramic						
Tile - Linoleum						
Tile - Formica						
Tree Removal						
Underground Pipe						
Weather Stripping						
Welding						
Well Inspector/ Consultant						
Material Suppliers						
Material Suppliers						
Miscellaneous						
Miscellaneous						

CITY OF

CYPRESS

BUSINESS CERTIFICATE

The person, firm or corporation named below is granted this business certificate pursuant to the provisions of the City Business License Ordinances to engage in, carry on or conduct the business, trade, calling, profession, exhibition or occupation described below. Issuance of certificate is not an endorsement, nor certification of compliance with other ordinances or laws, nor an assurance that the proposed use is in conformance with the city zoning regulations.

BUSINESS NAME: ALTA CONSTRUCTION

BUSINESS LOCATION: 369 E BLAINE ST
Corona, CA 92879

BUSINESS OWNER: RICHARD MCPHEETERS

BUSINESS IDENTIFICATION:
0-045155-L

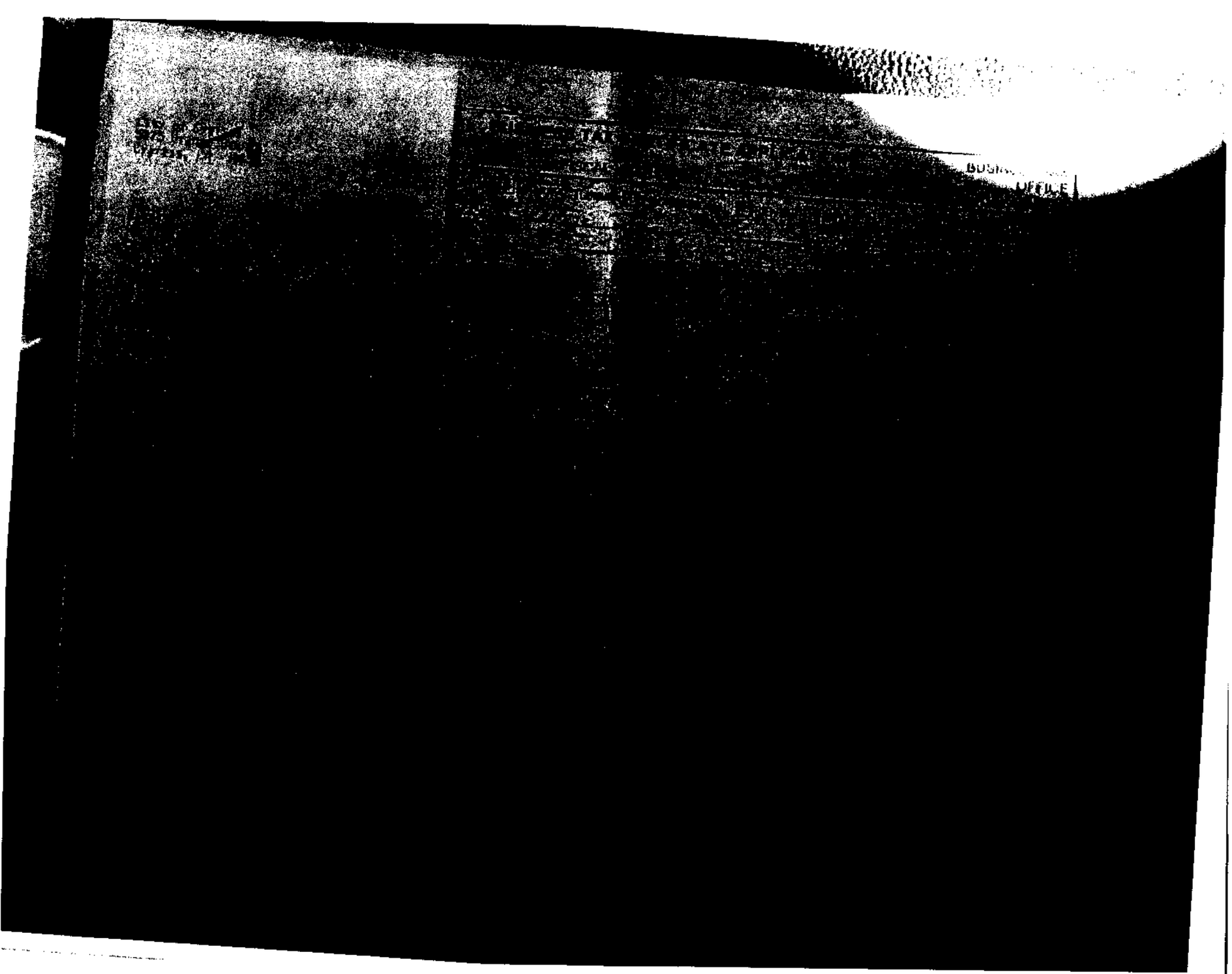
EXPIRATION DATE:
06-30-14

ALTA CONSTRUCTION
369 E BLAINE ST
Corona, CA 92879

BUSINESS CLASS:
1541 GENERAL BLDG CONTRACTORS

F-15 5/83 TO BE POSTED IN A CONSPICUOUS PLACE

NOT TRANSFERABLE



... at www.renab.canwnet.gov

The California Commission on Disability Access at www.ccda.ca.gov."

I DECLARE UNDER PENALTY OF PERJURY THAT THE STATEMENTS HEREI

SIGNATURE: [signature]

TITLE:

FOR OFFICE U

TAX CODE # _____ CLASSIFICATION: _____

BUSINESS LICENSE # 0-048195-L HOP # _____

Special Instructions: _____

License Fee: $40.00 + State Mandated Fee SB 1186 ...

Subcontractors: $50.00 + State Mandated Fee SB 1186 ...

TOTAL TAX DUE $ 50.00 + 1.00 ... /20

DISTRIBUTION: WHITE - License Dept. CANARY - ...

F-40 rev. 1-13

ORANGE COUNTY FIRE AUTHORITY

Prevention Field Services
1 Fire Authority Road
Irvine, CA 92602
Phone (714) 573-6254
Fax (714) 368-8836

RECORDS REQUEST INVOICE

To: Alicia Jansen - Stantec

Number of Pages (including cover): 1

Date: 7/21/2021

Paid Thank you!

COMMENTS: The information you requested for **5665 PLAZA DRIVE in the city of CYPRESS** is ready. THERE WERE NO RECORDS FOUND FOR 575 PLAZA DRIVE. Your fee for this request is $2.50.

*****NEW PAYMENT OPTION! PAY ONLINE!*****
https://www.msbpay.com/ocfa/PublicRecordsRequests

If you prefer not to pay online, please send a check payable to ORANGE COUNTY FIRE AUTHORITY and a **SELF-ADDRESSED, STAMPED ENVELOPE** to: *Orange County Fire Authority, Atten: Iris Vicent/Prevention Field Services, 1 Fire Authority Rd, Irvine CA 92602* and the records will be mailed to you. If you prefer your records to be emailed to you, please send payment only and indicate the email address you would like the records sent to.

PLEASE NOTE: WITH OUR COVID-19 SAFETY PRECAUTIONS, OCFA IS CURRENTLY CLOSED TO THE PUBLIC. YOU WILL BE UNABLE TO COME IN AND PICK UP YOUR RECORDS AT THIS TIME.

ORANGE COUNTY FIRE AUTHORITY

Report run on: July 21, 2021 10:34 AM

BUSINESS RECORDS AT: 5665 PLAZA
CYPRESS

Bus Id: **121217** DBA: **CBRE** Status: Active
5665 PLAZA DR Bldg# Ste#
CYPRESS
Last Insp Date: 20 JAN 2020 Bus Type: BUSINESS OFFICE
Insp Type: ROUTINE INSPECTION Insp Category: CATEGORY 5, NO HAZARDOUS MATERIALS
Alarm Type: 4.2 MANUAL/HEAT/SMOKE DET. - TO ALARM CO.
Sprinkler Type: 1 Wet Pipe, Supervised Sprinkler Due Date: 01 MAR 2021

VIOLATIONS

Identify Date: 20 JAN 2020

House Keeping:	Fire Protect:	High Piled:	Electrical:
Exiting:	Permit Related:	Hazmat Related:	Misc:

Notice Issued Dt: Self Clr Issued Dt:

1st Reinsp clear:	Date:	2nd Reinsp clear:	Date:
3rd Reinsp clear:	Date:	4th Reinsp clear:	Date:
5th Reinsp clear:	Date:		

PERMITS

Permit No	Permit description	Issued Date	Expiration Date	Occupancy Load
AF33R	Combustible Liquids-Reissuance	20 JAN 2020	19 JAN 2021	
AP21R	Assembly, <300 Occupants - Reissuance	20 JAN 2020	19 JAN 2021	121
M150	Administrative Drive Time	20 JAN 2020		

CHEMICALS : NO CHEMICALS FOUND *****

***** END OF REPORT *****

BUSINESS RECORDS AT: 5665 PLAZA
CYPRESS

Bus Id: **98113** DBA: **REEF (TRANSWESTERN)** Status: Inactive
5665 PLAZA DR Bldg# Ste#
CYPRESS

Last Insp Date: 05 APR 2017 Bus Type: BUSINESS OFFICE

Insp Type: ROUTINE INSPECTION Insp Category: CATEGORY 5, NO HAZARDOUS MATERIALS

Alarm Type: 4.2 MANUAL/HEAT/SMOKE DET. - TO ALARM CO.

Sprinkler Type: 1 Wet Pipe, Supervised Sprinkler Due Date: 01 MAR 2021

VIOLATIONS

Identify Date:

House Keeping: 0	Fire Protect: 0	High Piled: 0	Electrical: 0
Exiting: 0	Permit Related: 0	Hazmat Related: 0	Misc: 0

Notice Issued Dt: Self Clr Issued Dt:

1st Reinsp clear:	Date:	2nd Reinsp clear:	Date:
3rd Reinsp clear:	Date:	4th Reinsp clear:	Date:
5th Reinsp clear:	Date:		

PERMITS

Permit No	Permit description	Issued Date	Expiration Date	Occupancy Load
AF35R	Flammable Combustible Liquids-Reissuance	15 JAN 2015	15 JAN 2016	
AP21	Assembly, <300 Occupants - Issuance	15 JAN 2015	15 JAN 2016	121
M150	Administrative Drive Time	15 JAN 2015		

CHEMICALS : NO CHEMICALS FOUND *****

***** END OF REPORT *****

BUSINESS RECORDS AT: 5665 PLAZA
CYPRESS

Bus Id: **17855** DBA: **MITSUBISHI ELECTRONIC AMERICA, INC.** Status: Inactive
5665 PLAZA DR Bldg# Ste#
CYPRESS
Last Insp Date: 11 OCT 2005 Bus Type: BUSINESS OFFICE
Insp Type: ROUTINE INSPECTION Insp Category: CATEGORY 5, NO HAZARDOUS MATERIALS
Alarm Type: 4.2 MANUAL/HEAT/SMOKE DET. - TO ALARM CO.
Sprinkler Type: 1 Wet Pipe, Supervised Sprinkler Due Date: 01 MAR 2021

VIOLATIONS

Identify Date:

House Keeping: 0 Fire Protect: 0 High Piled: 0 Electrical:

Exiting: 0 Permit Related: 0 Hazmat Related: 0 Misc:

Notice Issued Dt: Self Clr Issued Dt:

1st Reinsp clear: Date: 2nd Reinsp clear: Date:
3rd Reinsp clear: Date: 4th Reinsp clear: Date:
5th Reinsp clear: Date:

PERMITS

Permit No	Permit description	Issued Date	Expiration Date	Occupancy Load
P.2.3A	Assembly, 50-299 Occupants	15 JUL 2003	15 JUL 2004	200

CHEMICALS : NO CHEMICALS FOUND *****

***** END OF REPORT *****

ORANGE COUNTY FIRE AUTHORITY

Report run on: July 21, 2021 10:35 AM

BUSINESS RECORDS AT: 575 PLAZA

CYPRESS

******* NO BUSINESS RECORDS FOUND *******

INSPECTION REPORT
County of Orange, Health Care Agency, Environmental Health
1241 EAST DYER ROAD, SUITE 120
SANTA ANA, CA 92705-5611
(714) 433-6000
ochealthinfo.com/eh

PR0091545

REEF (TRANSWESTERN)
5665 PLAZA DR
CYPRESS, CA 90630

Record ID: FA0059945
Inspection Date: 07/20/2016
Reinspection Date:

Type of Facility: 5801-HAZ MAT DISCLOSURE 1-4 CHEMICAL
Service: F04-**FOLLOW-UP INSPECTION - OFF-SITE**
B Aprahamian
HAZARDOUS WASTE SPECIALIST I

Mailing Address:

ON FILE

Submission Declined

Your submission has been reviewed. Please fix the following:

Emergency Plan:
- Fill out a. through f. (Prevention to Other Records)
- Fill out employee training

Facility Map:
- Add the location of the following: storm drains/sewers, electrical shutoffs, evacuation staging area, hazardous material storage area, and emergency response equipment

I declare that I have examined and received a copy of this inspection report.

Print Name and Title _____

Signature _____ Date _____

INSPECTION REPORT

County of Orange, Health Care Agency, Environmental Health
1241 EAST DYER ROAD, SUITE 120
SANTA ANA, CA 92705-5611
(714) 433-6000
ochealthinfo.com/eh

PR0091545

REEF (TRANSWESTERN)
5665 PLAZA DR
CYPRESS, CA 90630

Record ID: FA0059945
Inspection Date: 11/03/2017
Reinspection Date: N/A

Type of Facility: 5801-HAZ MAT DISCLOSURE 1-4 CHEMICALS
Service: A01-**ROUTINE INSPECTION**

Mailing Address:
REEF (TRANSWESTERN)
REEF (TRANSWESTERN)
535 ANTON SUITE 150
COSTA MESA, CA 92626

Brian Erdman
HAZARDOUS MATERIALS SPECIALIST III
(714) 720-1635
7:00-8:00 a.m.
BErdman@ochca.com

THE ITEMS NOTED BELOW WERE OBSERVED DURING COURSE OF THE SITE VISIT. ANY VIOLATIONS OBSERVED MUST BE CORRECTED

OPENING COMMENTS

On site to conduct a change of ownership inspection.

Reef Transwwestern in no longer the owner if the facility.

CBRE is the operator of the building.

On site to conduct a routine Hazardous Materials Business Emergency Plan inspection. Consent to inspect was provided by Craig Wright of CBRE.
A walk through of the facility was conducted.
The following Hazardous Substances were observed being stored at above the reporting threshold:
-Diesel Fuel (160 gallons)

This facility is responsible for identifying all hazardous materials and hazardous wastes, which are above the following disclosure thresholds:
Solids > 500 pounds.
Liquids > or = 55 gallons
Gas > or = 200 cubic feet

The facility has not completed or submitted the Hazardous Materials Business Emergency Plan in CERS.

The HMBEP documents must be electronically submitted by going to the CERS website at http://cers.calepa.ca.gov/ and creating an account.

The following HMBEP documents that must be electronically submitted:
- Business Activities form
- Owner/Operator Identification form
- Hazardous Material Chemical Inventory forms
- Facility Site Map
- Business Emergency Plan

A site map used in the HMBEP must be available for review.
The employee training in regards the HMBEP is conducted annually.

INSPECTION REPORT

County of Orange, Health Care Agency, Environmental Health
1241 EAST DYER ROAD, SUITE 120
SANTA ANA, CA 92705-5611
(714) 433-6000
ochealthinfo.com/eh

PR0091545

REEF (TRANSWESTERN)
5665 PLAZA DR
CYPRESS, CA 90630

Record ID: FA0059945
Inspection Date: 11/03/2017
Reinspection Date: N/A

SIGNATURE(S) OF ACKNOWLEDGEMENT

NAME:
TITLE:

Signing for the receipt of the above report is not an admission of the facts of the violations set forth herein.

PUBLIC HEALTH SERVICES
ENVIRONMENTAL HEALTH

HAZARDOUS MATERIAL RELEASE RESPONSE PLAN (HMRRP) INSPECTION REPORT

FACILITY NAME CBRE		FACILITY ADDRESS 5665 PLAZA DR, CYPRESS, CA 90630	
MAILING ADDRESS PO BOX 9010, WARREN MI 48090		CERS ID / EPA ID 10574935 N/A	
C/O - OWNER CBRE		INSPECTOR SARAH ORNDORFF	
FACILITY ID FA0059945	RELATED ID PR0091545	SERVICE: A01 - ROUTINE INSPECTION	INSPECTION DATE 11/18/2020
PROGRAM DESCRIPTION 5801 - HAZ MAT DISCLOSURE 1-4 CHEMICALS			REINSPECTION DATE: NEXT ROUTINE

Consent to enter, inspect, and take photos of the facility was given by: Craig Wright, Building Engineer

The following items have been inspected. If there were violations, this document constitutes a Summary of Violations and Notice to Comply and the Violation Degree column is marked Minor, Class I, or Class II. A violation that is corrected at the time of inspection is marked COS. Failure to correct the listed violation(s) prior to the designated compliance date may necessitate a reinspection at an additional fee.

Overall Inspection Comments:

A remote hazardous materials inspection was conducted with Craig Wright, Building Engineer.

Observed diesel generator present on site. Facility only stores up to 50 gallons of Diesel at any given time. Business will be removed from the hazardous materials program as of this date.

The facility is responsible for identifying all hazardous materials, to include hazardous wastes, which are above disclosure thresholds of 55 gallons for liquids, 500 pounds for solids, & 200 cubic feet for gases. If there is a change in the type or amount of chemicals that are maintained on site, please submit revised documents (electronically) within 30 days of the change.

Hazardous Materials documents can be submitted via the California Environmental Reporting System (CERS) located at http://cers.calepa.ca.gov/.

No violations were noted. Orange County Environmental Health greatly appreciates your efforts to comply with all health, safety, and environmental laws and regulations applicable to your facility.

SIGNATURE(S) OF ACKNOWLEDGEMENT

NAME:
TITLE:

Signing for the receipt of the above report is not an admission of the facts of the violations set forth herein.

ADDITIONAL FEES:
Uncorrected violations may lead to follow-up actions, which may incur additional fees. The purpose of these fees is to shift costs away from compliant operators and impose fees on those facilities that fail to readily comply with the applicable laws and regulations. The amount of the fee is to cover all of the cost associated with the service. For the most current fees, please refer to http://ochealthinfo.com/eh/home/fees or call (714) 433-6000.

Asbestos Inspection Report

5665 Plaza Drive
Cypress, California 90630

Prepared for:

Goodman North America Management, LLC
18201 Von Karman Avenue, Suite 1170
Irvine, California 92612

Prepared by:

Michael Lyssy, Certified Asbestos Consultant
Pacific Environmental Company
28202 Cabot Road, Suite 300
Laguna Niguel, CA 92677

Project No. 21117

August 10, 2021

Asbestos Inspection Report

5665 Plaza Drive
Cypress, California 90630

Table of Contents

Introduction	1
Scope of Work	1
Site Description	3
Asbestos Inspection Results	6
Summary and Recommendations	8
Limitations	8

Summary Table of Sampling Results

Appendix A – Sample Location Plans

Appendix B – Asbestos Sample Analysis Reports and Chain of Custody

Appendix C - Certifications

Asbestos Inspection Report

5665 Plaza Drive
Cypress, California 90630

Introduction

This report presents the results of our inspection services to identify asbestos-containing materials in the approximately 150,626 square foot five-story office building located at 5665 Plaza Drive in Cypress, California.

All work was conducted by State of California certified personnel. Field services for the inspection were conducted from July 27 through August 4, 2021. The project team included Thomas Gannon, a Cal/OSHA Certified Site Surveillance Technician (CSST 00-2726) and Michael Lyssy, a Cal/OSHA California Certified Asbestos Consultant (CAC 94-1311, expires 3/4/2022, mike@pacificenvironmental.com, (800)303-6484).

Scope of Work

ASBESTOS: The asbestos survey was performed by identifying suspect ACMs (defined by U.S. EPA and Occupational Safety and Health Administration (OSHA) as any material containing more than 1% asbestos) and performing sampling in compliance with the regulations that specify the identification of ACM. The suspect ACMs were grouped into Homogeneous Sampling Areas (HSAs). An HSA is a material that exhibits similar physical characteristics and that was installed at the same time as observed by the licensed inspector. Enclosed and/or encased materials were deemed inaccessible and as such, this investigation and all sampling was conducted only in generally accessible areas. Walls, ceiling, floors or soffits were not demolished to gain access.

Upon identifying the suspect ACMs, representative bulk samples were collected following OSHA and National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations. Bulk samples were collected using a variety of cutting and/or coring tools, each cleaned prior to and following the collection of each sample. Samples were generally collected through the entire strata of each material sampled, unless otherwise noted. To minimize the generation of dust, a liberal amount of water was applied during the collection of each sample, particularly during the collection of friable materials. Samples were placed inside a clean (new) plastic container and labeled with a unique sampling number corresponding to a material description on bulk sample collection logs.

The bulk samples collected were logged onto chain of custody sheets and forwarded to AmeriSci Los Angeles (24416 S. Main Street, Suite 308, Carson, CA 90745, (310)834-4868) for analysis by Polarized Light Microscopy (PLM). AmeriSci Los Angeles participates in the National Voluntary Laboratory Accreditation Program (NVLAP 200346-0). The bulk samples were analyzed in accordance with the U.S. EPA "Method for Determination of Asbestos in Bulk Building Materials" 600/R-93/116.

The National Emission Standard for Hazardous Air Pollutants (NESHAPS), EPA, OSHA and South Coast Air Quality Management District define an ACM as any material containing a concentration of asbestos greater than 1.0% by weight as determined by Polarized Light Microscopy. The National Emission Standard for Hazardous Air Pollutants (NESHAPS), EPA, OSHA and SCAQMD define an ACM as any material containing a concentration of asbestos greater than 1.0% by weight as determined by Polarized Light Microscopy. The SCAQMD further separates ACM into the following:

- **FRIABLE ASBESTOS-CONTAINING MATERIAL** is material containing more than one percent (1%) asbestos, that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure
- **CLASS I NONFRIABLE ASBESTOS-CONTAINING MATERIAL** is material containing more than one percent (1%) asbestos, and that, when dry, can be broken, crumbled, pulverized, or reduced to powder in the course of demolition or renovation activities. Actions which may cause material to be broken, crumbled, pulverized, or reduced to powder include physical wear and disturbance by mechanical force, such as, but not limited to, sanding, sandblasting, cutting or abrading, improper handling or removal or leaching of matrix binders. Class I non-friable asbestos-containing material includes, but is not limited to, fractured or crushed asbestos cement products, transite materials, mastic, roofing felts, roofing tiles, cement water pipes and resilient floor covering.
- **CLASS II NONFRIABLE ASBESTOS-CONTAINING MATERIAL** is all other material containing more than one percent (1%), that is neither friable nor Class I non-friable.

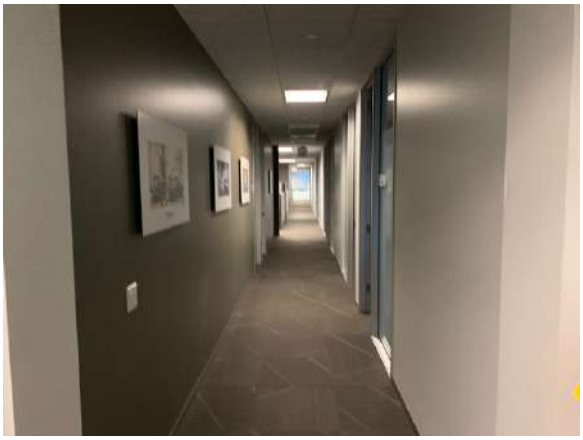
The California Department of Occupational Safety and Health (Cal/OSHA) defines an asbestos-containing construction material (ACCM) as a material that contains greater than one-tenth of one percent (>0.10%) asbestos.

Site Description

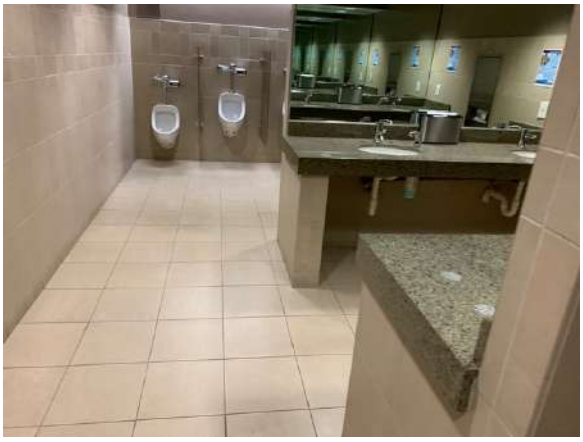
The subject property is a five-story steel-framed office building that comprises approximately 150,626 square feet. It was reportedly built in 1991 and is partially occupied. Toyo Tires and their subsidiaries occupy half of the third floor and the entire second floor. Murphy, Murphy & Murphy, Inc., certified public accountants, occupy the other half of the third floor. Beacon CBHM, LLC, a management company in the health services industries, occupies portions of the first and fourth floors in a very limited capacity, and the fifth floor is vacant. Due to the global pandemic, the building is practically vacant.

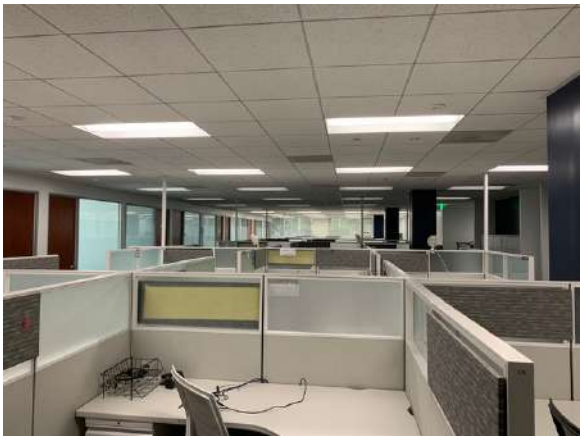
Interior finishes include drywall walls and hard lid ceilings with suspended ceiling systems in the office areas. Floors are concrete finished with carpet, vinyl and stone floorings. Mechanical systems are insulated with fiberglass and foam and the structural steel is protected with fireproofing. The roof is a single-ply TPO roofing system that was installed by Best Contracting in 2017/2018. We subcontracted Best Contracting to perform the roof cores for sample collection and to provide patching services in order to preserve the warranty of the roofing system.

The following photographs illustrate the typical site conditions.



TOYOTIRE
Holdings of Americas





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Asbestos Inspection Results

A total of one hundred and seventy-two bulk samples of suspect materials were collected and submitted to independent laboratories for analysis. The laboratories analyzed each layer (one hundred and ninety-six layers) by Polarized Light Microscopy with dispersion staining per EPA protocols.

The EPA considers a homogeneous material to be an Asbestos Containing Building Material (ACBM) if one or more samples are found to contain greater than 1% by weight or area estimation. Materials that contain *trace* amounts of asbestos (<1% asbestos by weight) are considered Asbestos Containing Construction Materials (ACCM) per CalOSHA and are subject to worker protection rules.

Based on the results of our inspection services, no asbestos-containing materials or ACCMs were used in the construction of the improvements at the site. The following materials were determined to not be classified as asbestos-containing through laboratory analysis:

Material	**Location**
Drywall	Interior Walls and Ceilings, Suite 350
Drywall Joint Compound	Interior Walls and Ceilings, Suite 350
2' x 4' Ceiling Tile	Suite 350 Ceilings
Gray 12" x 12" Vinyl Floor Tile	Suite 350 Break Room
Carpet Glue	Suite 350, Adheres Carpet
Brown Vinyl Covebase	Suite 350 Baseboards
Vinyl Covebase Adhesive	Suite 350 Baseboards
Drywall	Interior Walls and Ceilings, Suite 300
Drywall Joint Compound	Interior Walls and Ceilings, Suite 300
Gray 12" x 12" Vinyl Floor Tile	Suite 350 Copy Room
24" x 24" Vinyl Floor Tile	Suite 350 Break Room
Carpet Glue	Suite 300, Adheres Carpet
2' x 2' Ceiling Tile	Suite 300 Ceilings
Drywall	Interior Walls and Ceilings, Suites 200-250
Drywall Joint Compound	Interior Walls and Ceilings, Suites 200-250
White 12" x 12" Vinyl Floor Tile	Suite 300 Copy Room
2' x 2' Ceiling Tile	Suites 200-250 Ceilings
Brown Vinyl Covebase	Suites 200 - 250 Baseboards
Vinyl Covebase Adhesive	Suites 200 - 250 Baseboards
Drywall	Interior Walls and Ceilings, Suite 500
Drywall Joint Compound	Interior Walls and Ceilings, Suite 500
Wood Patterned Vinyl Plank Floorings	5th Floor Break Rom, Reception, Lobby, Board Room
Brown Flooring Mastic	5th Floor Break Rom, Reception, Lobby, Board Room
Beige 12" x 24" Vinyl Floor Tile	5th Floor Coffee, Conference, Copy, Storage
Vinyl Covebase	Suites 500 Baseboards
Vinyl Covebase Adhesive	Suites 500 Baseboards
2' x 4' Ceiling Tile	Suite 500 Ceilings
Drywall	Interior Walls and Ceilings, Suite 400
Drywall Joint Compound	Interior Walls and Ceilings, Suite 400

Material	Location
2' x 2' Ceiling Tile	Suite 400 Ceilings
White Vinyl Covebase	Suites 400 Baseboards
Carpet Glue	Suite 400, Adheres Carpet
Brown Vinyl Covebase	Suites 400 Baseboards
White with Blue Specs 12" x 12" Vinyl Floor Tile	Suites 400 File, Break, Fax
Black 12" x 12" Vinyl Floor Tile	First Floor Lobby, Security, Break Room
2' x 2' Ceiling Tile	First Floor Ceilings
Drywall	Interior Walls and Ceilings, First Floor
Drywall Joint Compound	Interior Walls and Ceilings, First Floor
White 12" x 12" Vinyl Floor Tile	First Floor Storage, Lunch Room
Vinyl Floor Tile Adhesive	First Floor Storage, Lunch Room
Gray 12" x 12" Vinyl Floor Tile	First Floor Server Room
White Vinyl Covebase	First Floor Baseboards
Covebase Adhesive	First Floor Baseboards
Black Vinyl Covebase	First Floor Baseboards
Fireproofing	Structural Steel and Overspray
Roof Core – Vinyl Layer	Roof
Roof Core – Roofing Layer	Roof
Roof Core – Lightweight Concrete Layer	Roof

A summary table with all of the sample results in included after the text of the report. Sample location plans are included as Appendix A and the laboratory reports are located in Appendix B.

Summary and Recommendations

No asbestos-containing materials were identified at the five-story office building located at 5665 Plaza Drive in Cypress, California

An investigation below soil grade was outside the scope of this project and additional material, such as suspect cementitious asbestos pipes, electrical wiring insulation, or other materials may subsequently be discovered. These materials should be considered positive and treated according. Be advised that subsequent testing and laboratory analysis is recommended should any such sub-surface material be discovered. Furthermore, be advised that specific work plans may need to be prepared and approved by South Coast Air Quality Management District should cementitious suspect asbestos piping be discovered during the course of this project.

Every effort was made to sample all of the suspect building materials, however some materials may have been concealed and could not be exposed without demolition. If any additional suspect building materials are encountered during future renovation or demolition activities, we will arrange to sample and analyze them accordingly

This report should be given to trade contractors who are involved in performing demolition or renovations to the property.

Limitations

The conclusions and recommendations presented herein are based upon the agreed scope of work outlined in this report and were necessarily limited to our observations and experience. Pacific Environmental Company makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. This report is not a legal opinion. The services performed by Pacific Environmental Company have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing under similar conditions. No other warranty, expressed or implied, is made.

The results reported and any opinions reached by Pacific Environmental Company are for the benefit of the client. The results and opinions set forth by Pacific Environmental Company in this report will be valid as of the date of the report. Pacific Environmental Company assumes no obligation to advise you of any changes that may later be brought to our attention.

Report Prepared By:

Michael J. Lyssy
President, CAC 94-1311

Summary of Sampling Results

Summary of Sampling Results						
Sample ID	**Sample Description**	**Sample/Material Location**	**Friability**	**Condition**	**Est. Qty.**	**PLM Result**
01	Drywall	Interior Walls and Ceilings, Suite 350	Non-Friable	Good	NA	NAD
02	Drywall	〃	〃	〃	〃	NAD
03	Drywall	〃	〃	〃	〃	NAD
04	Drywall	〃	〃	〃	〃	NAD
05	Drywall	〃	〃	〃	〃	NAD
06	Drywall	〃	〃	〃	〃	NAD
07	Drywall	〃	〃	〃	〃	NAD
08	Drywall Joint Compound	Interior Walls and Ceilings, Suite 350	Non-Friable	Good	NA	NAD
09	Drywall Joint Compound	〃	〃	〃	〃	NAD
10	Drywall Joint Compound	〃	〃	〃	〃	NAD
11	Drywall Joint Compound	〃	〃	〃	〃	NAD
12	Drywall Joint Compound	〃	〃	〃	〃	NAD
13	Drywall Joint Compound	〃	〃	〃	〃	NAD
14	Drywall Joint Compound	〃	〃	〃	〃	NAD
15	2' x 4' Ceiling Tile	Suite 350 Ceilings	Friable	Good	NA	NAD
16	2' x 4' Ceiling Tile	〃	〃	〃	〃	NAD
17	2' x 4' Ceiling Tile	〃	〃	〃	〃	NAD
18	Gray 12" x 12" Vinyl Floor Tile	Suite 350 Break Room	Non-Friable	Good	NA	NAD
19	Gray 12" x 12" Vinyl Floor Tile	〃	〃	〃	〃	NAD
20	Gray 12" x 12" Vinyl Floor Tile	〃	〃	〃	〃	NAD
21	Carpet Glue	Suite 350, Adheres Carpet	Non-Friable	Good	NA	NAD
22	Carpet Glue	〃	〃	〃	〃	NAD
23	Carpet Glue	〃	〃	〃	〃	NAD
24	Brown Vinyl Covebase	Suite 350 Baseboards	Non-Friable	Good	NA	NAD
25	Brown Vinyl Covebase	〃	〃	〃	〃	NAD
26	Brown Vinyl Covebase	〃	〃	〃	〃	NAD
24	Vinyl Covebase Adhesive	Suite 350 Baseboards	Non-Friable	Good	NA	NAD
25	Vinyl Covebase Adhesive	〃	〃	〃	〃	NAD
26	Vinyl Covebase Adhesive	〃	〃	〃	〃	NAD

Summary of Sampling Results						
Sample ID	**Sample Description**	**Sample/Material Location**	**Friability**	**Condition**	**Est. Qty.**	**PLM Result**
27	Drywall	Interior Walls and Ceilings, Suite 300	Non-Friable	Good	NA	NAD
28	Drywall	〃	〃	〃	〃	NAD
29	Drywall	〃	〃	〃	〃	NAD
30	Drywall	〃	〃	〃	〃	NAD
31	Drywall	〃	〃	〃	〃	NAD
32	Drywall	〃	〃	〃	〃	NAD
33	Drywall	〃	〃	〃	〃	NAD
34	Drywall Joint Compound	Interior Walls and Ceilings, Suite 300	Non-Friable	Good	NA	NAD
35	Drywall Joint Compound	〃	〃	〃	〃	NAD
36	Drywall Joint Compound	〃	〃	〃	〃	NAD
37	Drywall Joint Compound	〃	〃	〃	〃	NAD
38	Drywall Joint Compound	〃	〃	〃	〃	NAD
39	Drywall Joint Compound	〃	〃	〃	〃	NAD
40	Drywall Joint Compound	〃	〃	〃	〃	NAD
41	Gray 12" x 12" Vinyl Floor Tile	Suite 350 Copy Room	Non-Friable	Good	NA	NAD
42	Gray 12" x 12" Vinyl Floor Tile	〃	〃	〃	〃	NAD
43	Gray 12" x 12" Vinyl Floor Tile	〃	〃	〃	〃	NAD
44	24" x 24" Vinyl Floor Tile	Suite 350 Break Room	Non-Friable	Good	NA	NAD
45	24" x 24" Vinyl Floor Tile	〃	〃	〃	〃	NAD
46	24" x 24" Vinyl Floor Tile	〃	〃	〃	〃	NAD
47	Carpet Glue	Suite 300, Adheres Carpet	Non-Friable	Good	NA	NAD
48	Carpet Glue	〃	〃	〃	〃	NAD
49	Carpet Glue	〃	〃	〃	〃	NAD
50	2' x 2' Ceiling Tile	Suite 300 Ceilings	Friable	Good	NA	NAD
51	2' x 2' Ceiling Tile	〃	〃	〃	〃	NAD
52	2' x 2' Ceiling Tile	〃	〃	〃	〃	NAD
53	Drywall	Interior Walls and Ceilings, Suites 200-250	Non-Friable	Good	NA	NAD
54	Drywall	〃	〃	〃	〃	NAD
55	Drywall	〃	〃	〃	〃	NAD

Summary of Sampling Results						
Sample ID	**Sample Description**	**Sample/Material Location**	**Friability**	**Condition**	**Est. Qty.**	**PLM Result**
56	Drywall	--	--	--	--	NAD
57	Drywall	--	--	--	--	NAD
58	Drywall	--	--	--	--	NAD
59	Drywall	--	--	--	--	NAD
60	Drywall Joint Compound	Interior Walls and Ceilings, Suites 200-250	Non-Friable	Good	NA	NAD
61	Drywall Joint Compound	--	--	--	--	NAD
62	Drywall Joint Compound	--	--	--	--	NAD
63	Drywall Joint Compound	--	--	--	--	NAD
64	Drywall Joint Compound	--	--	--	--	NAD
65	Drywall Joint Compound	--	--	--	--	NAD
66	Drywall Joint Compound	--	--	--	--	NAD
67	White 12" x 12" Vinyl Floor Tile	Suite 300 Copy Room	Non-Friable	Good	NA	NAD
68	White 12" x 12" Vinyl Floor Tile	--	--	--	--	NAD
69	White 12" x 12" Vinyl Floor Tile	--	--	--	--	NAD
70	2' x 2' Ceiling Tile	Suites 200-250 Ceilings	Friable	Good	NA	NAD
71	2' x 2' Ceiling Tile	--	--	--	--	NAD
72	2' x 2' Ceiling Tile	--	--	--	--	NAD
73	Brown Vinyl Covebase	Suites 200 - 250 Baseboards	Non-Friable	Good	NA	NAD
74	Brown Vinyl Covebase	--	--	--	--	NAD
75	Brown Vinyl Covebase	--	--	--	--	NAD
73	Vinyl Covebase Adhesive	Suites 200 - 250 Baseboards	Non-Friable	Good	NA	NAD
74	Vinyl Covebase Adhesive	--	--	--	--	NAD
75	Vinyl Covebase Adhesive	--	--	--	--	NAD
76	Drywall	Interior Walls and Ceilings, Suite 500	Non-Friable	Good	NA	NAD
77	Drywall	--	--	--	--	NAD
78	Drywall	--	--	--	--	NAD
79	Drywall	--	--	--	--	NAD
80	Drywall	--	--	--	--	NAD
81	Drywall	--	--	--	--	NAD

Summary of Sampling Results						
Sample ID	**Sample Description**	**Sample/Material Location**	**Friability**	**Condition**	**Est. Qty.**	**PLM Result**
82	Drywall	--	--	--	--	NAD
83	Drywall Joint Compound	Interior Walls and Ceilings, Suite 500	Non-Friable	Good	NA	NAD
84	Drywall Joint Compound	--	--	--	--	NAD
85	Drywall Joint Compound	--	--	--	--	NAD
86	Drywall Joint Compound	--	--	--	--	NAD
87	Drywall Joint Compound	--	--	--	--	NAD
88	Drywall Joint Compound	--	--	--	--	NAD
89	Drywall Joint Compound	--	--	--	--	NAD
90	Wood Patterned Vinyl Plank Floorings	5th Floor Break Rom, Reception, Lobby, Board Room	Non-Friable	Good	NA	NAD
91	Wood Patterned Vinyl Plank Floorings	--	--	--	--	NAD
92	Wood Patterned Vinyl Plank Floorings	--	--	--	--	NAD
90	Brown Flooring Mastic	5th Floor Break Rom, Reception, Lobby, Board Room	Non-Friable	Good	NA	NAD
91	Brown Flooring Mastic	--	--	--	--	NAD
92	Brown Flooring Mastic	--	--	--	--	NAD
93	Beige 12" x 24" Vinyl Floor Tile	5th Floor Coffee, Conference, Copy, Storage	Non-Friable	Good	NA	NAD
94	Beige 12" x 24" Vinyl Floor Tile	--	--	--	--	NAD
95	Beige 12" x 24" Vinyl Floor Tile	--	--	--	--	NAD
96	Vinyl Covebase	Suites 500 Baseboards	Non-Friable	Good	NA	NAD
97	Vinyl Covebase	--	--	--	--	NAD
98	Vinyl Covebase	--	--	--	--	NAD
96	Vinyl Covebase Adhesive	Suites 500 Baseboards	Non-Friable	Good	NA	NAD
97	Vinyl Covebase Adhesive	--	--	--	--	NAD
98	Vinyl Covebase Adhesive	--	--	--	--	NAD
99	2' x 4' Ceiling Tile	Suite 500 Ceilings	Friable	Good	NA	NAD
100	2' x 4' Ceiling Tile	--	--	--	--	NAD
101	2' x 4' Ceiling Tile	--	--	--	--	NAD
102	Drywall	Interior Walls and Ceilings, Suite 400	Non-Friable	Good	NA	NAD
103	Drywall	--	--	--	--	NAD
104	Drywall	--	--	--	--	NAD

Summary of Sampling Results						
Sample ID	**Sample Description**	**Sample/Material Location**	**Friability**	**Condition**	**Est. Qty.**	**PLM Result**
105	Drywall	--	--	--	--	NAD
106	Drywall	--	--	--	--	NAD
107	Drywall	--	--	--	--	NAD
108	Drywall	--	--	--	--	NAD
109	Drywall Joint Compound	Interior Walls and Ceilings, Suite 400	Non-Friable	Good	NA	NAD
110	Drywall Joint Compound	--	--	--	--	NAD
111	Drywall Joint Compound	--	--	--	--	NAD
112	Drywall Joint Compound	--	--	--	--	NAD
113	Drywall Joint Compound	--	--	--	--	NAD
114	Drywall Joint Compound	--	--	--	--	NAD
115	Drywall Joint Compound	--	--	--	--	NAD
116	2' x 2' Ceiling Tile	Suite 400 Ceilings	Friable	Good	NA	NAD
117	2' x 2' Ceiling Tile	--	--	--	--	NAD
118	2' x 2' Ceiling Tile	--	--	--	--	NAD
119	White Vinyl Covebase	Suites 400 Baseboards	Non-Friable	Good	NA	NAD
120	White Vinyl Covebase	--	--	--	--	NAD
121	White Vinyl Covebase	--	--	--	--	NAD
122	Carpet Glue	Suite 400, Adheres Carpet	Non-Friable	Good	NA	NAD
123	Carpet Glue	--	--	--	--	NAD
124	Carpet Glue	--	--	--	--	NAD
125	Brown Vinyl Covebase	Suites 400 Baseboards	Non-Friable	Good	NA	NAD
126	Brown Vinyl Covebase	--	--	--	--	NAD
127	Brown Vinyl Covebase	--	--	--	--	NAD
128	White with Blue Specs 12" x 12" Vinyl Floor Tile	Suites 400 File, Break, Fax	Non-Friable	Good	NA	NAD
129	White with Blue Specs 12" x 12" Vinyl Floor Tile	--	--	--	--	NAD
130	White with Blue Specs 12" x 12" Vinyl Floor Tile	--	--	--	--	NAD
131	Black 12" x 12" Vinyl Floor Tile	First Floor Lobby, Security, Break Room	Non-Friable	Good	NA	NAD
132	Black 12" x 12" Vinyl Floor Tile	--	--	--	--	NAD
133	Black 12" x 12" Vinyl Floor Tile	--	--	--	--	NAD

Summary of Sampling Results						
Sample ID	**Sample Description**	**Sample/Material Location**	**Friability**	**Condition**	**Est. Qty.**	**PLM Result**
134	2' x 2' Ceiling Tile	First Floor Ceilings	Friable	Good	NA	NAD
135	2' x 2' Ceiling Tile	〃	〃	〃	〃	NAD
136	2' x 2' Ceiling Tile	〃	〃	〃	〃	NAD
137	Drywall	Interior Walls and Ceilings, First Floor	Non-Friable	Good	NA	NAD
138	Drywall	〃	〃	〃	〃	NAD
139	Drywall	〃	〃	〃	〃	NAD
140	Drywall	〃	〃	〃	〃	NAD
141	Drywall	〃	〃	〃	〃	NAD
142	Drywall	〃	〃	〃	〃	NAD
143	Drywall	〃	〃	〃	〃	NAD
144	Drywall Joint Compound	Interior Walls and Ceilings, First Floor	Non-Friable	Good	NA	NAD
145	Drywall Joint Compound	〃	〃	〃	〃	NAD
146	Drywall Joint Compound	〃	〃	〃	〃	NAD
147	Drywall Joint Compound	〃	〃	〃	〃	NAD
148	Drywall Joint Compound	〃	〃	〃	〃	NAD
149	Drywall Joint Compound	〃	〃	〃	〃	NAD
150	Drywall Joint Compound	〃	〃	〃	〃	NAD
151	White 12" x 12" Vinyl Floor Tile	First Floor Storage, Lunch Room	Non-Friable	Good	NA	NAD
152	White 12" x 12" Vinyl Floor Tile	〃	〃	〃	〃	NAD
153	White 12" x 12" Vinyl Floor Tile	〃	〃	〃	〃	NAD
151	Vinyl Floor Tile Adhesive	First Floor Storage, Lunch Room	Non-Friable	Good	NA	NAD
152	Vinyl Floor Tile Adhesive	〃	〃	〃	〃	NAD
153	Vinyl Floor Tile Adhesive	〃	〃	〃	〃	NAD
154	Gray 12" x 12" Vinyl Floor Tile	First Floor Server Room	Non-Friable	Good	NA	NAD
155	Gray 12" x 12" Vinyl Floor Tile	〃	〃	〃	〃	NAD
156	Gray 12" x 12" Vinyl Floor Tile	〃	〃	〃	〃	NAD
157	White Vinyl Covebase	First Floor Baseboards	Non-Friable	Good	NA	NAD
158	White Vinyl Covebase	〃	〃	〃	〃	NAD
159	White Vinyl Covebase	〃	〃	〃	〃	NAD

Summary of Sampling Results						
Sample ID	**Sample Description**	**Sample/Material Location**	**Friability**	**Condition**	**Est. Qty.**	**PLM Result**
157	Covebase Adhesive	First Floor Baseboards	Non-Friable	Good	NA	NAD
158	Covebase Adhesive	⁓	⁓	⁓	⁓	NAD
159	Covebase Adhesive	⁓	⁓	⁓	⁓	NAD
160	Black Vinyl Covebase	First Floor Baseboards	Non-Friable	Good	NA	NAD
161	Black Vinyl Covebase	⁓	⁓	⁓	⁓	NAD
162	Black Vinyl Covebase	⁓	⁓	⁓	⁓	NAD
163	Fireproofing	Structural Steel and Overspray	Friable	Good	NA	NAD
164	Fireproofing	⁓	⁓	⁓	⁓	NAD
165	Fireproofing	⁓	⁓	⁓	⁓	NAD
166	Fireproofing	⁓	⁓	⁓	⁓	NAD
167	Fireproofing	⁓	⁓	⁓	⁓	NAD
168	Fireproofing	⁓	⁓	⁓	⁓	NAD
169	Fireproofing	⁓	⁓	⁓	⁓	NAD
01	Roof Core – Vinyl Layer	Roof	Non-Friable	Good	NA	NAD
02	Roof Core – Vinyl Layer	⁓	⁓	⁓	⁓	NAD
03	Roof Core – Vinyl Layer	⁓	⁓	⁓	⁓	NAD
01	Roof Core – Roofing Layer	Roof	Non-Friable	Good	NA	NAD
02	Roof Core – Roofing Layer	⁓	⁓	⁓	⁓	NAD
03	Roof Core – Roofing Layer	⁓	⁓	⁓	⁓	NAD
01	Roof Core – Lightweight Concrete Layer	Roof	Non-Friable	Good	NA	NAD
02	Roof Core – Lightweight Concrete Layer	⁓	⁓	⁓	⁓	NAD
03	Roof Core – Lightweight Concrete Layer	⁓	⁓	⁓	⁓	NAD

LEGEND

⁓ = Continuation, same as above

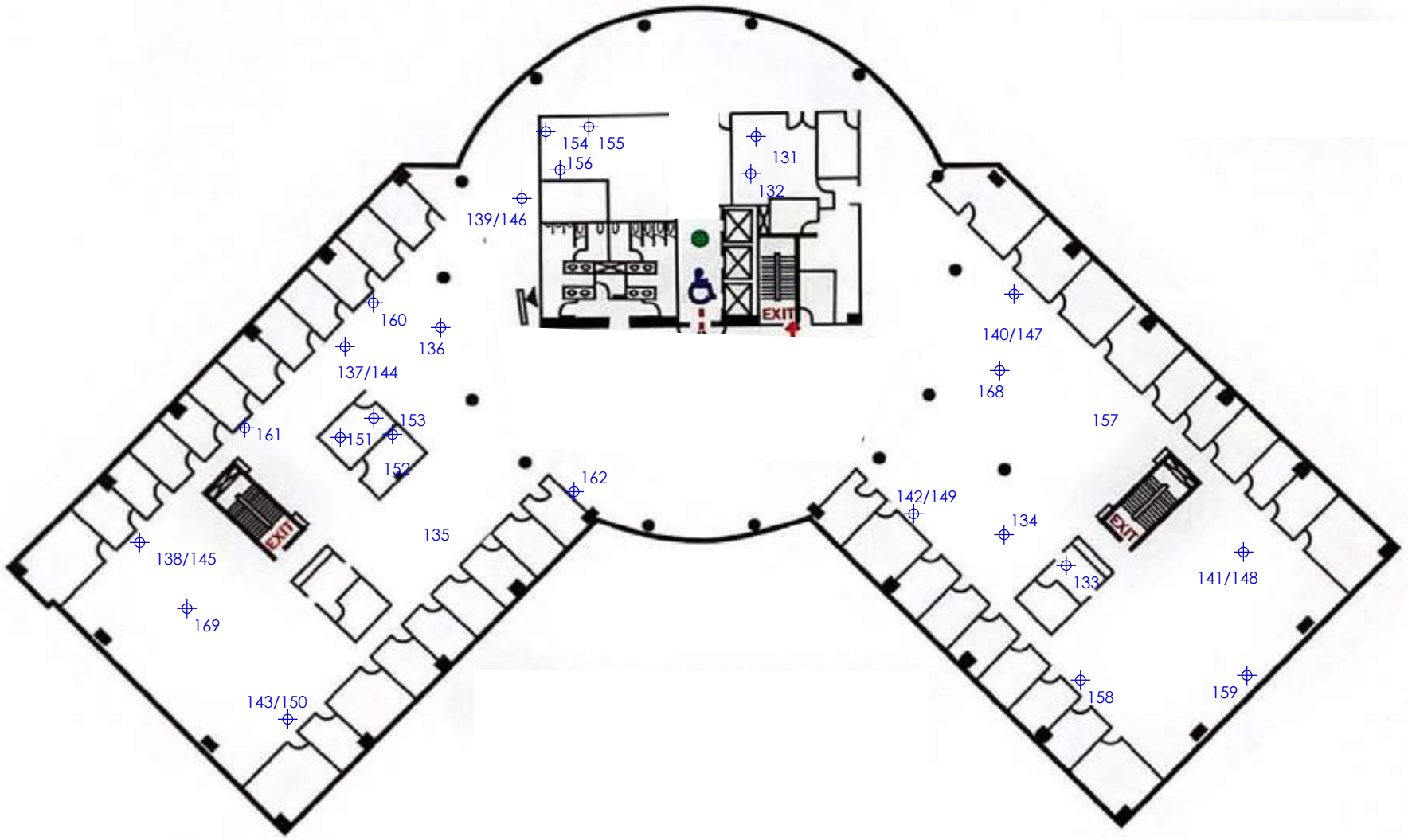
NA = Not Applicable since not ACM or included in quantity otherwise

NAD = No Asbestos Detected

Positive Results in Bold

Appendix A

Sample Location Plans



Indicates Approximate Sample Location

DATE PREPARED: 8.5.2021	PREPARED BY: ML
REVISION:	SOURCE: Site
PROJECT NO: 21117	APPROX. SCALE NTS

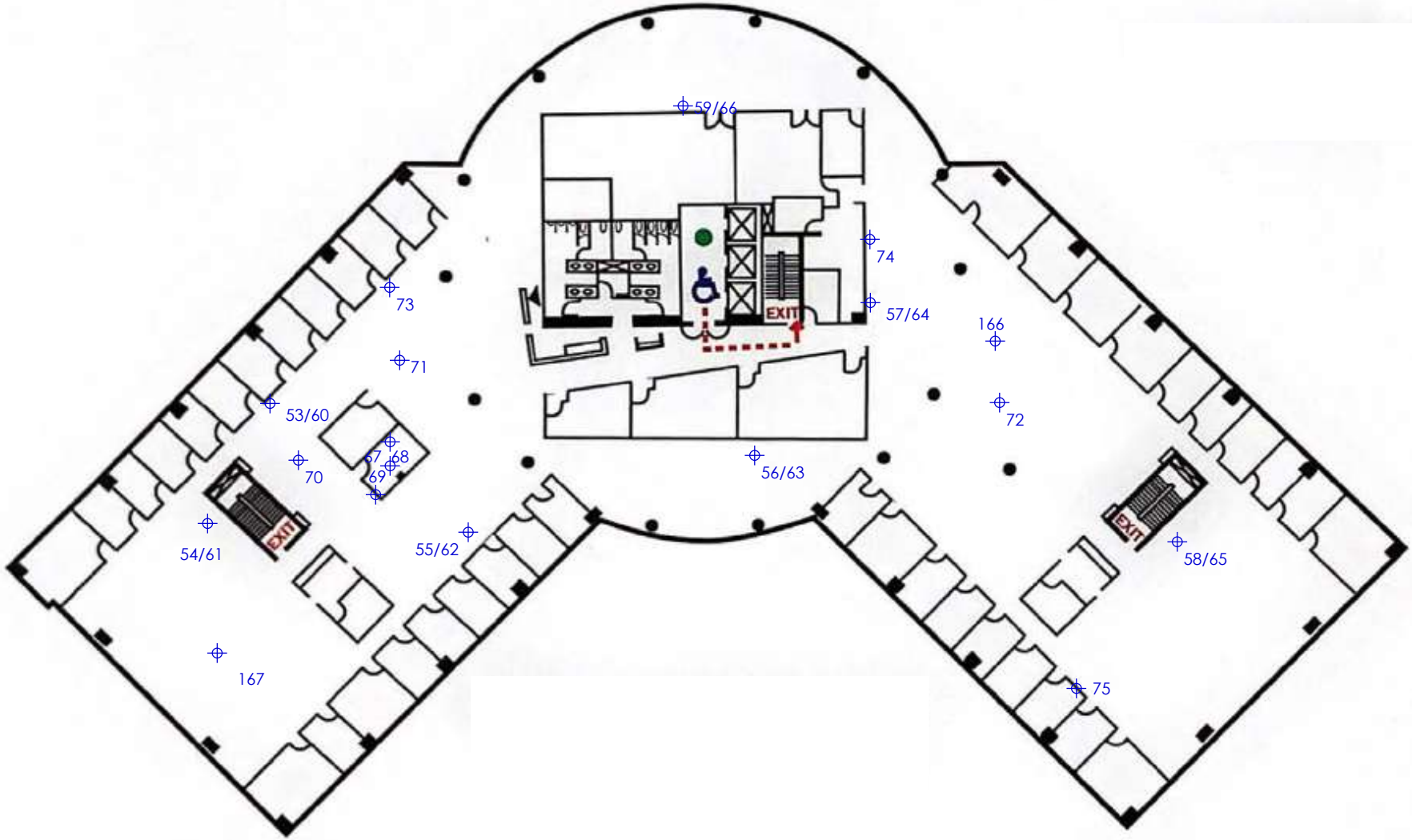
PROJECT NAME: Asbestos Inspection Report

DRAWING TITLE:

Site and Sample Location Plan
5665 Plaza Drive - First Floor
Cypress, CA

CLIENT: **Goodman North America Management**

FIGURE NO. 1



Indicates Approximate Sample Location

DATE PREPARED: 8.5.2021	PREPARED BY: ML	
REVISION:	SOURCE: Site	
PROJECT NO: 21117	APPROX. SCALE NTS	

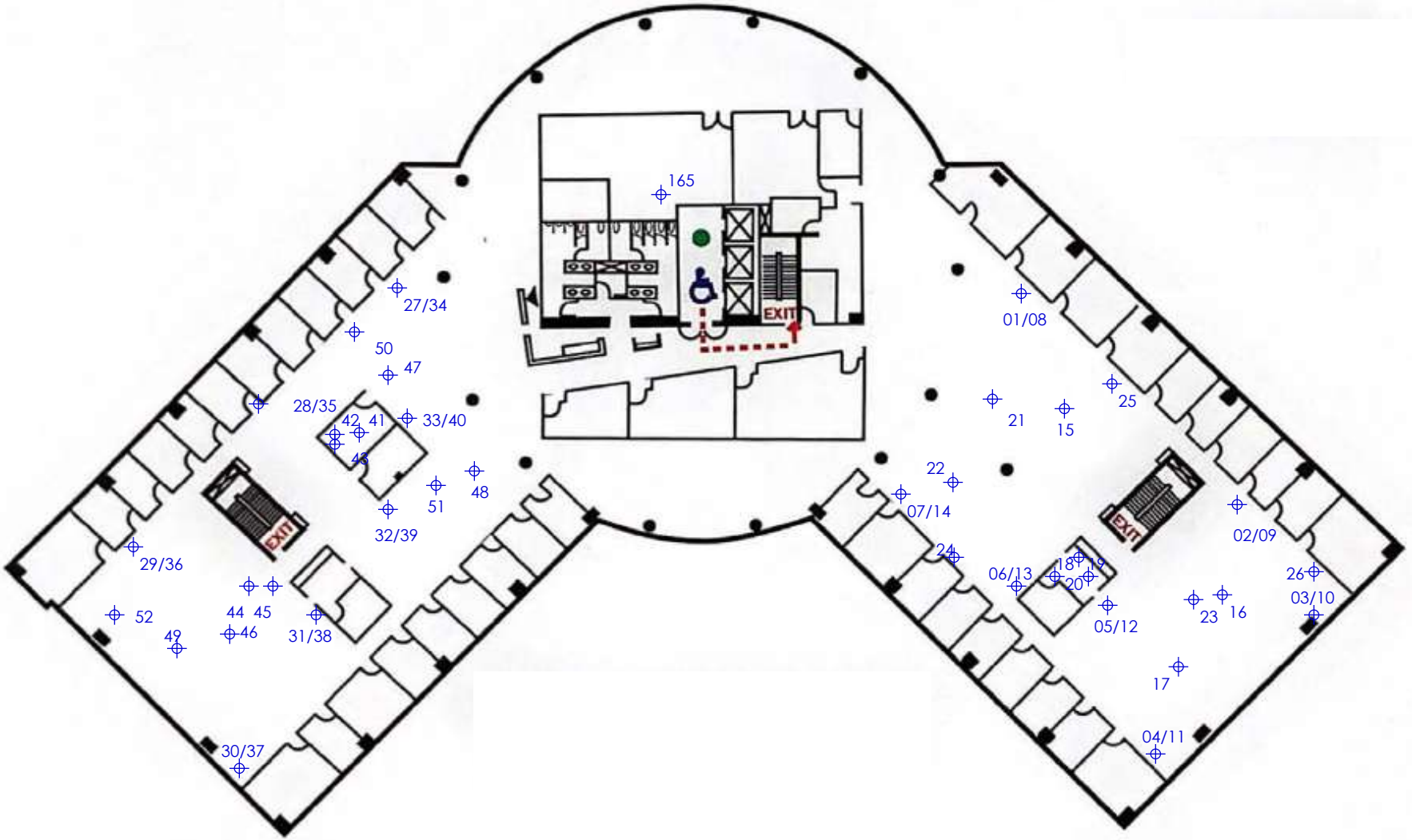
PROJECT NAME: Asbestos Inspection Report

DRAWING TITLE:

Site and Sample Location Plan
5665 Plaza Drive - Second Floor
Cypress, CA

CLIENT: **Goodman North America Management**

FIGURE NO. **2**



Indicates Approximate Sample Location

DATE PREPARED: 8.5.2021	PREPARED BY: ML
REVISION:	SOURCE: Site
PROJECT NO: 21117	APPROX. SCALE NTS

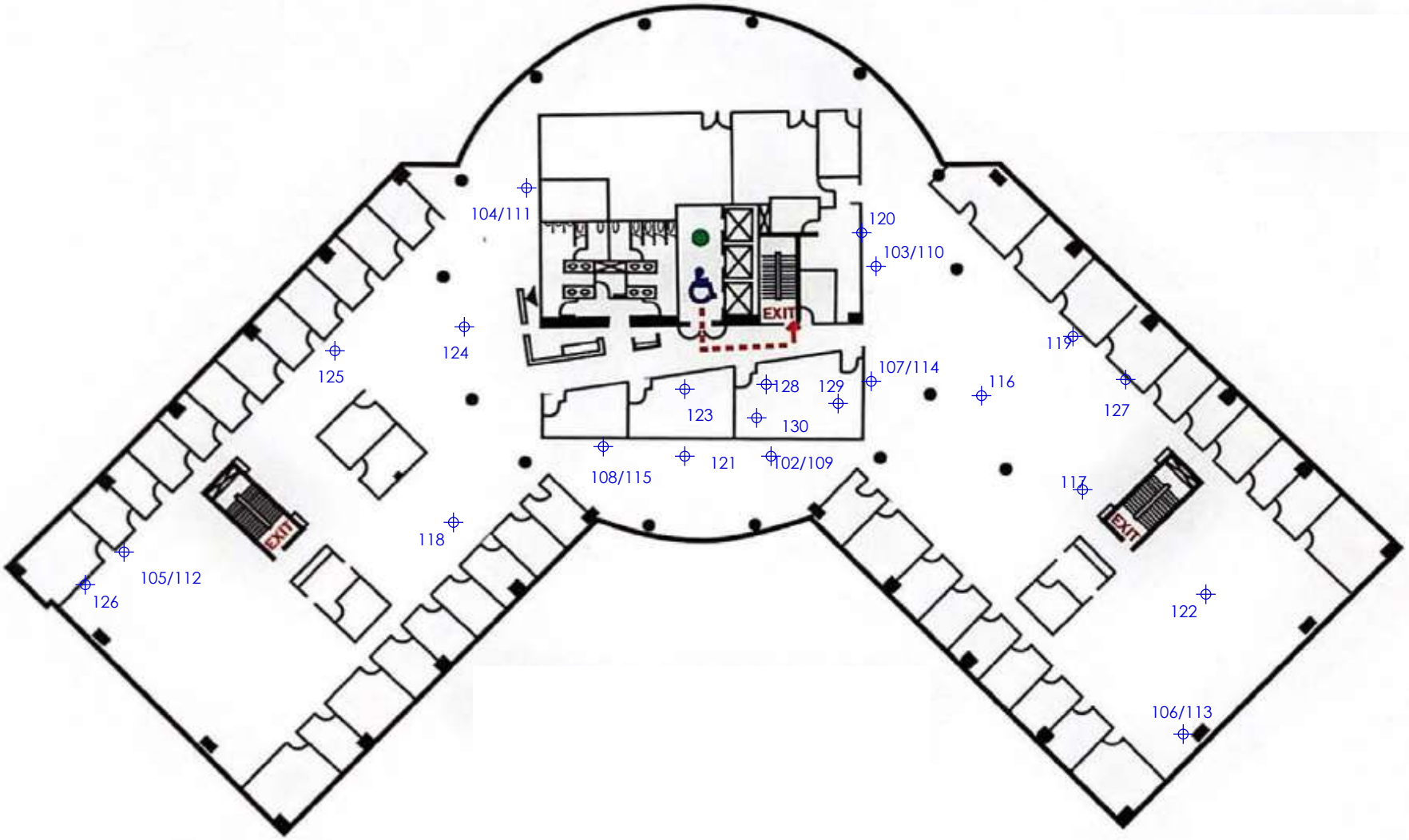
PROJECT NAME: Asbestos Inspection Report

DRAWING TITLE:

Site and Sample Location Plan
5665 Plaza Drive - Third Floor
Cypress, CA

CLIENT: **Goodman North America Management**

FIGURE NO. **3**



Indicates Approximate Sample Location

DATE PREPARED: 8.5.2021	PREPARED BY: ML
REVISION:	SOURCE: Site
PROJECT NO: 21117	APPROX. SCALE NTS

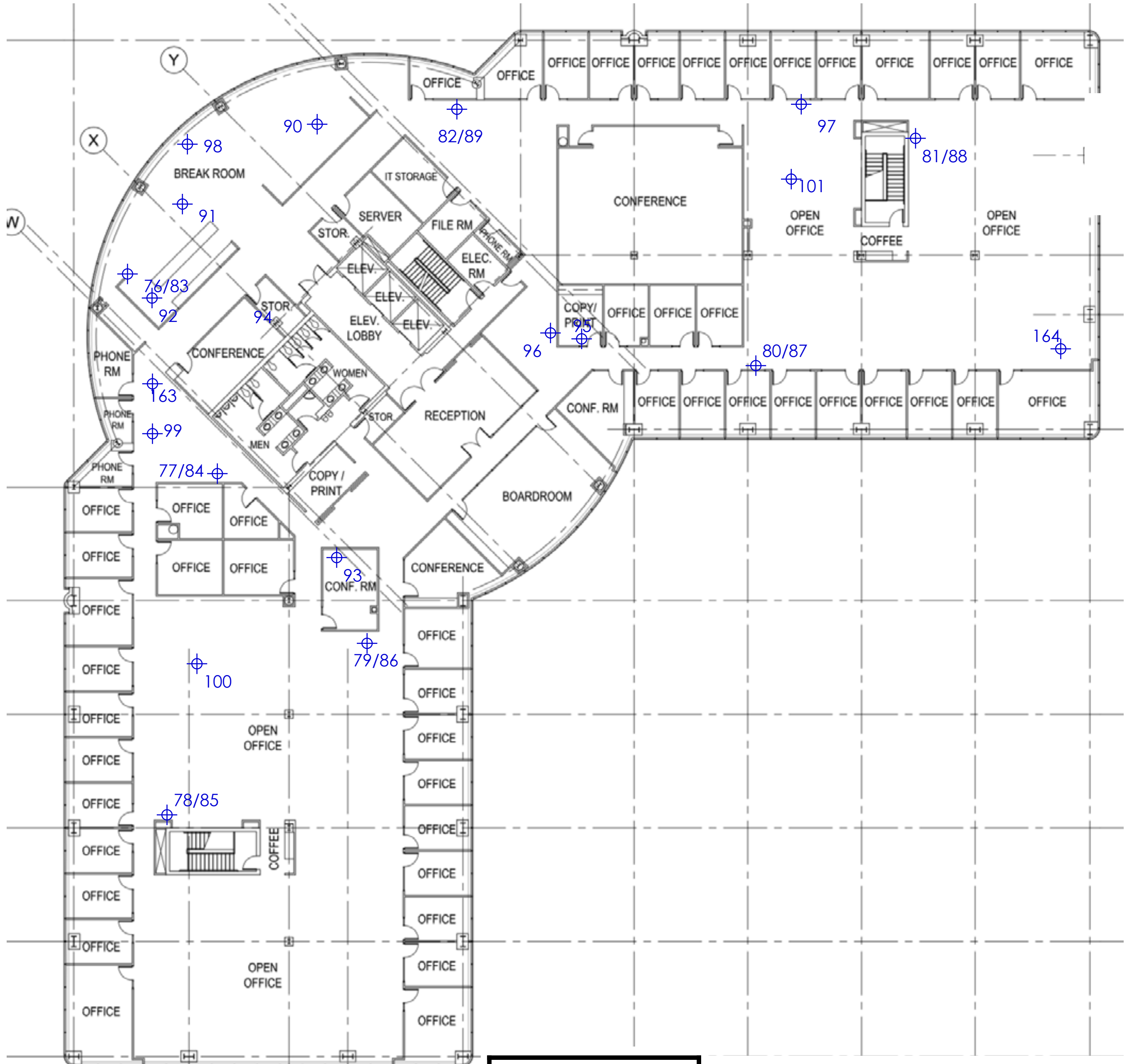
PROJECT NAME: Asbestos Inspection Report

DRAWING TITLE:

Site and Sample Location Plan
5665 Plaza Drive - Fourth Floor
Cypress, CA

CLIENT: **Goodman North America Management**

FIGURE NO. **4**



⌖ Indicates Approximate Sample Location

DATE PREPARED: 8.5.2021	PREPARED BY: ML
REVISION:	SOURCE: Site
PROJECT NO: 21117	APPROX. SCALE NTS

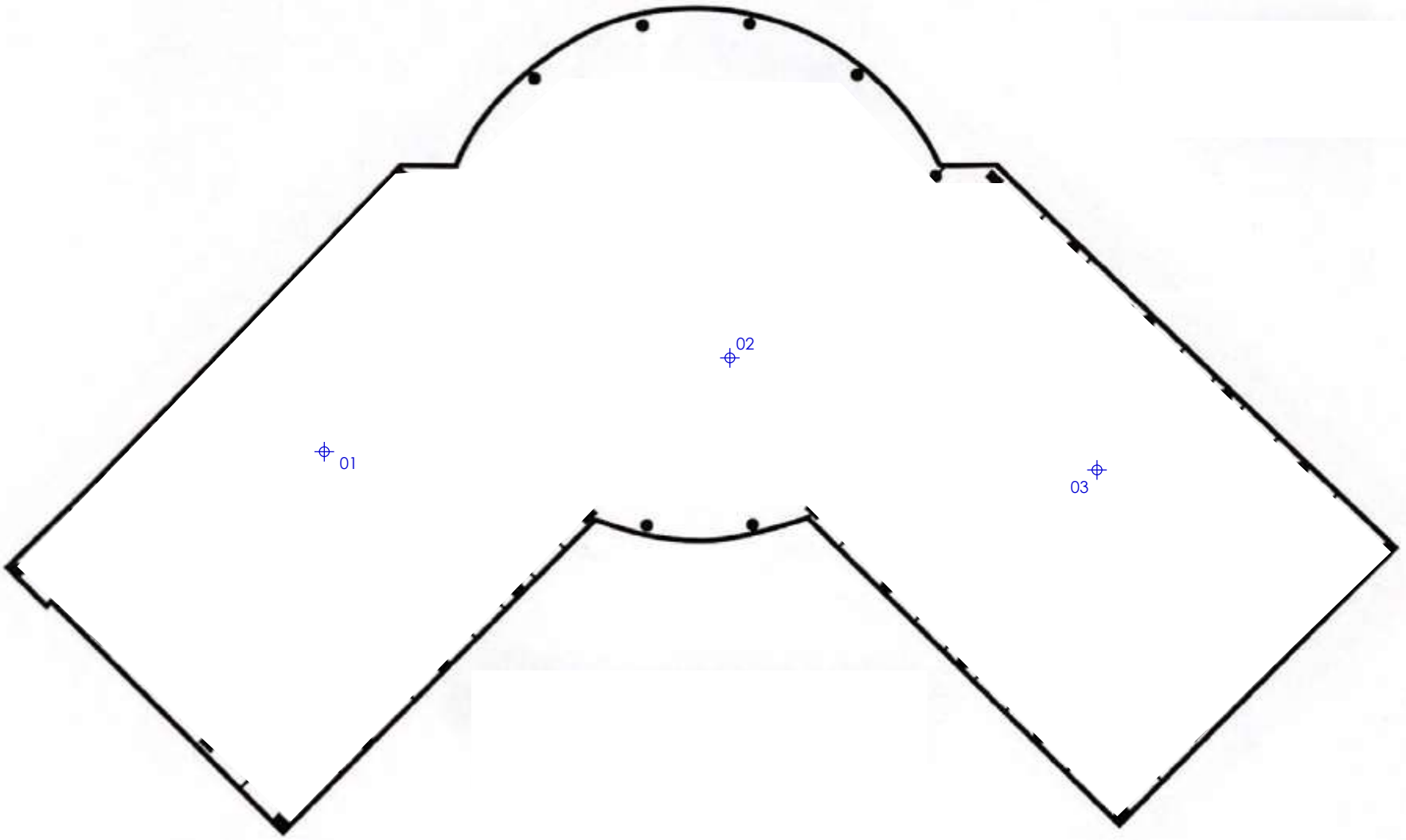
DRAWING TITLE:

Site and Sample Location Plan
5665 Plaza Drive - Fifth Floor
Cypress, CA

PROJECT NAME: Asbestos Inspection Report

CLIENT: **Goodman North America Management**

FIGURE NO. **5**



Indicates Approximate Sample Location

DATE PREPARED: 8.5.2021	PREPARED BY: ML	
REVISION:	SOURCE: Site	
PROJECT NO: 21117	APPROX. SCALE NTS	

PROJECT NAME: Asbestos Inspection Report

DRAWING TITLE:

Site and Sample Location Plan
5665 Plaza Drive - Roof
Cypress, CA

CLIENT: **Goodman North America Management**

FIGURE NO. 6

Appendix B

Asbestos Sample Analysis Reports and
Chain of Custody

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Pacific Environmental Company
Attn: Mike Lyssy
28202 Cabot Road
Suite 300
Laguna Niguel, CA 92677

Date Received 07/28/21
Date Examined 08/03/21

RE: 5665 Plaza Drive

AmeriSci Job # 921071462
P.O. #
Page 1 **of** 33

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
01	921071462-01	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Drywall / Suite 350		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		
02	921071462-02	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Drywall / Suite 350		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		
03	921071462-03	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Drywall / Suite 350		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		
	Comment:		
04	921071462-04	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Drywall / Suite 350		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		

See Reporting notes on last page

PLM Bulk Asbestos Report

5665 Plaza Drive

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
05	921071462-05	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: Drywall / Suite 350			
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %			
06	921071462-06	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: Drywall / Suite 350			
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %			
07	921071462-07	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: Drywall / Suite 350			
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 % **Comment:**			
08	921071462-08	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: Joint Compound / Suite 350			
Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
09	921071462-09	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: Joint Compound / Suite 350			
Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5665 Plaza Drive

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
10	921071462-10	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Joint Compound / Suite 350		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
11	921071462-11	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Joint Compound / Suite 350		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
12	921071462-12	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Joint Compound / Suite 350		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
13	921071462-13	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Joint Compound / Suite 350		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
14	921071462-14	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Joint Compound / Suite 350		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
15	921071462-15	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: 2' x 4' CT / Suite 350		
	Analyst Description: Brown, Homogeneous, Fibrous, Ceiling Tile		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Fibrous glass 10 %, Non-fibrous 80 %		

See Reporting notes on last page

PLM Bulk Asbestos Report

5665 Plaza Drive

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
16	921071462-16	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: 2' x 4' CT / Suite 350			
Analyst Description: Brown, Homogeneous, Non-Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 10 %, Fibrous glass 10 %, Non-fibrous 80 %			
17	921071462-17	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: 2' x 4' CT / Suite 350			
Analyst Description: Brown, Homogeneous, Non-Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 10 %, Fibrous glass 10 %, Non-fibrous 80 %			
18	921071462-18	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: 12 x 12 Gray FT / Break Rm / Suite 350			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Cellulose 2 %, Non-fibrous 98 %			
19	921071462-19	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: 12 x 12 Gray FT / Break Rm / Suite 350			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Cellulose 2 %, Non-fibrous 98 % **Comment:**			
20	921071462-20	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: 12 x 12 Gray FT / Break Rm / Suite 350			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Cellulose 2 %, Non-fibrous 98 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5665 Plaza Drive

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
21	921071462-21	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: Carpet Glue / Suite 350			
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
22	921071462-22	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: Carpet Glue / Suite 350			
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
23	921071462-23	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: Carpet Glue / Suite 350			
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
24	921071462-24L1	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: Basecove 2" Brown / Suite 350			
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Basecove **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
24	921071462-24L2	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: Basecove 2" Brown / Suite 350			
Analyst Description: White, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
25	921071462-25L1	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: Basecove 2" Brown / Suite 350			
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Basecove **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5665 Plaza Drive

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
25	921071462-25L2	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: Basecove 2" Brown / Suite 350			
Analyst Description: White, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
26	921071462-26L1	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: Basecove 2" Brown / Suite 350			
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Basecove **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
26	921071462-26L2	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: Basecove 2" Brown / Suite 350			
Analyst Description: White, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
27	921071462-27	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: Drywall / Suite 300			
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %			
28	921071462-28	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: Drywall / Suite 300			
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %			
29	921071462-29	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: Drywall / Suite 300			
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5665 Plaza Drive

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
30	921071462-30	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Drywall / Suite 300		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		
31	921071462-31	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Drywall / Suite 300		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		
32	921071462-32	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Drywall / Suite 300		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		
33	921071462-33	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Drywall / Suite 300		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		
34	921071462-34	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Joint Compound / Suite 300		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
35	921071462-35	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Joint Compound / Suite 300		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		

See Reporting notes on last page

PLM Bulk Asbestos Report

5665 Plaza Drive

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
36	921071462-36	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Joint Compound / Suite 300		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %		
37	921071462-37	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Joint Compound / Suite 300		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %		
38	921071462-38	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Joint Compound / Suite 300		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %		
39	921071462-39	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Joint Compound / Suite 300		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %		
40	921071462-40	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Joint Compound / Suite 300		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %		
41	921071462-41	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: 12 x 12 Gray FT / Suite 300		
	Analyst Description: Grey, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Cellulose 2 %, Non-fibrous 98 %		

See Reporting notes on last page

PLM Bulk Asbestos Report

5665 Plaza Drive

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
42	921071462-42 **Location:** 12 x 12 Gray FT / Suite 300	***No***	NAD (by CVES) by Johana Perez on 08/03/21
Analyst Description: Grey, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Cellulose 2 %, Non-fibrous 98 %			
43	921071462-43 **Location:** 12 x 12 Gray FT / Suite 300	***No***	NAD (by CVES) by Johana Perez on 08/03/21
Analyst Description: Grey, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Cellulose 2 %, Non-fibrous 98 %			
44	921071462-44 **Location:** 24" Vinyl FT / Suite 300	***No***	NAD (by CVES) by Johana Perez on 08/03/21
Analyst Description: Black, Homogeneous, Non-Fibrous, Vinyl Flooring **Asbestos Types:** **Other Material:** Cellulose 15 %, Non-fibrous 85 %			
45	921071462-45 **Location:** 24" Vinyl FT / Suite 300	***No***	NAD (by CVES) by Johana Perez on 08/03/21
Analyst Description: Black, Homogeneous, Non-Fibrous, Vinyl Flooring **Asbestos Types:** **Other Material:** Cellulose 15 %, Non-fibrous 85 %			
46	921071462-46 **Location:** 24" Vinyl FT / Suite 300	***No***	NAD (by CVES) by Johana Perez on 08/03/21
Analyst Description: Black, Homogeneous, Non-Fibrous, Vinyl Flooring **Asbestos Types:** **Other Material:** Cellulose 15 %, Non-fibrous 85 %			
47	921071462-47 **Location:** Carpet Mastic / Suite 300	***No***	NAD (by CVES) by Johana Perez on 08/03/21
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5665 Plaza Drive

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
48	921071462-48	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Carpet Mastic / Suite 300		
	Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Mastic		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
49	921071462-49	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Carpet Mastic / Suite 300		
	Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Mastic		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
50	921071462-50	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: 2' x 2' CT / Suite 300		
	Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Fibrous glass 10 %, Non-fibrous 80 %		
51	921071462-51	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: 2' x 2' CT / Suite 300		
	Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Fibrous glass 10 %, Non-fibrous 80 %		
52	921071462-52	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: 2' x 2' CT / Suite 300		
	Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Fibrous glass 10 %, Non-fibrous 80 %		
53	921071462-53	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Drywall / Suites 200/250		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		

See Reporting notes on last page

PLM Bulk Asbestos Report

5665 Plaza Drive

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
54	921071462-54	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Drywall / Suites 200/250		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		
55	921071462-55	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Drywall / Suites 200/250		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		
56	921071462-56	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Drywall / Suites 200/250		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		
57	921071462-57	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Drywall / Suites 200/250		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		
58	921071462-58	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Drywall / Suites 200/250		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		
59	921071462-59	*No*	NAD (by CVES) by Johana Perez on 08/03/21
	Location: Drywall / Suites 200/250		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		

See Reporting notes on last page

PLM Bulk Asbestos Report

5665 Plaza Drive

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
60	921071462-60	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Joint Compound / Suites 200/250		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
61	921071462-61	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Joint Compound / Suites 200/250		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
62	921071462-62	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Joint Compound / Suites 200/250		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
63	921071462-63	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Joint Compound / Suites 200/250		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
64	921071462-64	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Joint Compound / Suites 200/250		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
65	921071462-65	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Joint Compound / Suites 200/250		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		

See Reporting notes on last page

PLM Bulk Asbestos Report

5665 Plaza Drive

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
66	921071462-66	*No*	NAD
Location: Joint Compound / Suites 200/250			(by CVES) by Johana Perez on 08/04/21
Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
67	921071462-67	*No*	NAD
Location: 12" x 12" White FT / Copy Rm / Suites 200/250			(by CVES) by Johana Perez on 08/04/21
Analyst Description: Grey/Off-White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Cellulose 2 %, Non-fibrous 98 %			
68	921071462-68	*No*	NAD
Location: 12" x 12" White FT / Copy Rm / Suites 200/250			(by CVES) by Johana Perez on 08/04/21
Analyst Description: Grey/Off-White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Cellulose 2 %, Non-fibrous 98 %			
69	921071462-69	*No*	NAD
Location: 12" x 12" White FT / Copy Rm / Suites 200/250			(by CVES) by Johana Perez on 08/04/21
Analyst Description: Grey/Off-White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Cellulose 2 %, Non-fibrous 98 %			
70	921071462-70	*No*	NAD
Location: 2' x 2' CT / Suites 200/250			(by CVES) by Johana Perez on 08/04/21
Analyst Description: Brown/White, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 10 %, Fibrous glass 10 %, Non-fibrous 80 %			
71	921071462-71	*No*	NAD
Location: 2' x 2' CT / Suites 200/250			(by CVES) by Johana Perez on 08/04/21
Analyst Description: Brown/White, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 10 %, Fibrous glass 10 %, Non-fibrous 80 %			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
72	921071462-72	*No*	NAD (by CVES) by Johana Perez on 08/04/21
Location: 2' x 2' CT / Suites 200/250			
Analyst Description: Brown/White, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 10 %, Fibrous glass 10 %, Non-fibrous 80 %			
73	921071462-73L1	*No*	NAD (by CVES) by Johana Perez on 08/04/21
Location: Basecove 3" Brown / Suites 200/250			
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Basecove **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
73	921071462-73L2	*No*	NAD (by CVES) by Johana Perez on 08/04/21
Location: Basecove 3" Brown / Suites 200/250			
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
74	921071462-74L1	*No*	NAD (by CVES) by Johana Perez on 08/04/21
Location: Basecove 3" Brown / Suites 200/250			
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Basecove **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
74	921071462-74L2	*No*	NAD (by CVES) by Johana Perez on 08/04/21
Location: Basecove 3" Brown / Suites 200/250			
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
75	921071462-75L1	*No*	NAD (by CVES) by Johana Perez on 08/04/21
Location: Basecove 3" Brown / Suites 200/250			
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Basecove **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
75	921071462-75L2	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Basecove 3" Brown / Suites 200/250		
	Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Mastic		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
	Comment:		
76	921071462-76	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Drywall / Suite 500		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		
77	921071462-77	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Drywall / Suite 500		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		
78	921071462-78	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Drywall / Suite 500		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		
79	921071462-79	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Drywall / Suite 500		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
80	921071462-80 **Location:** Drywall / Suite 500	***No***	NAD (by CVES) by Johana Perez on 08/04/21
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %		
81	921071462-81 **Location:** Drywall / Suite 500	***No***	NAD (by CVES) by Johana Perez on 08/04/21
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %		
82	921071462-82 **Location:** Drywall / Suite 500	***No***	NAD (by CVES) by Johana Perez on 08/04/21
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %		
83	921071462-83 **Location:** Joint Compound / Suite 500	***No***	NAD (by CVES) by Johana Perez on 08/04/21
	Analyst Description: White, Heterogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %		
84	921071462-84 **Location:** Joint Compound / Suite 500	***No***	NAD (by CVES) by Johana Perez on 08/04/21
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %		
85	921071462-85 **Location:** Joint Compound / Suite 500	***No***	NAD (by CVES) by Johana Perez on 08/04/21
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %		

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
86	921071462-86	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Joint Compound / Suite 500		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %		
87	921071462-87	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Joint Compound / Suite 500		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %		
88	921071462-88	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Joint Compound / Suite 500		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %		
89	921071462-89	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Joint Compound / Suite 500		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %		
90	921071462-90L1	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Vinyl Plank Wood Patterned / Suite 500		
	Analyst Description: Grey, Heterogeneous, Non-Fibrous, Vinyl Material **Asbestos Types:** **Other Material:** Cellulose 2 %, Non-fibrous 98 %		
90	921071462-90L2	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Vinyl Plank Wood Patterned / Suite 500		
	Analyst Description: Brown, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %		

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
91	921071462-91L1	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Vinyl Plank Wood Patterned / Suite 500		
	Analyst Description: Grey, Heterogeneous, Non-Fibrous, Vinyl Material		
	Asbestos Types:		
	Other Material: Cellulose 2 %, Non-fibrous 98 %		
91	921071462-91L2	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Vinyl Plank Wood Patterned / Suite 500		
	Analyst Description: Brown, Heterogeneous, Non-Fibrous, Mastic		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
92	921071462-92L1	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Vinyl Plank Wood Patterned / Suite 500		
	Analyst Description: Grey, Heterogeneous, Non-Fibrous, Vinyl Material		
	Asbestos Types:		
	Other Material: Cellulose 2 %, Non-fibrous 98 %		
92	921071462-92L2	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Vinyl Plank Wood Patterned / Suite 500		
	Analyst Description: Brown, Heterogeneous, Non-Fibrous, Mastic		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
93	921071462-93	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: 1' x 2' Beige FT / Suite 500		
	Analyst Description: Beige, Homogeneous, Non-Fibrous, Floor Tile		
	Asbestos Types:		
	Other Material: Cellulose 2 %, Non-fibrous 98 %		
94	921071462-94	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: 1' x 2' Beige FT / Suite 500		
	Analyst Description: Beige, Homogeneous, Non-Fibrous, Floor Tile		
	Asbestos Types:		
	Other Material: Cellulose 2 %, Non-fibrous 98 %		

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
95	921071462-95	*No*	NAD (by CVES) by Johana Perez on 08/04/21
Location: 1' x 2' Beige FT / Suite 500			
Analyst Description: Beige, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Cellulose 2 %, Non-fibrous 98 %			
96	921071462-96L1	*No*	NAD (by CVES) by Johana Perez on 08/04/21
Location: Basecove Vinyl / Suite 500			
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Basecove **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
96	921071462-96L2	*No*	NAD (by CVES) by Johana Perez on 08/04/21
Location: Basecove Vinyl / Suite 500			
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
97	921071462-97L1	*No*	NAD (by CVES) by Johana Perez on 08/04/21
Location: Basecove Vinyl / Suite 500			
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Basecove **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
97	921071462-97L2	*No*	NAD (by CVES) by Johana Perez on 08/04/21
Location: Basecove Vinyl / Suite 500			
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
98	921071462-98L1	*No*	NAD (by CVES) by Johana Perez on 08/04/21
Location: Basecove Vinyl / Suite 500			
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Basecove **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
98	921071462-98L2	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Basecove Vinyl / Suite 500		
	Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Mastic		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
99	921071462-99	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: 2 x 4 CT / Suite 500		
	Analyst Description: Brown, Homogeneous, Fibrous, Ceiling Tile		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Fibrous glass 10 %, Non-fibrous 80 %		
100	921071462-100	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: 2 x 4 CT / Suite 500		
	Analyst Description: Brown, Homogeneous, Fibrous, Ceiling Tile		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Fibrous glass 10 %, Non-fibrous 80 %		
101	921071462-101	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: 2 x 4 CT / Suite 500		
	Analyst Description: Brown, Homogeneous, Fibrous, Ceiling Tile		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Fibrous glass 10 %, Non-fibrous 80 %		
102	921071462-102	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Drywall / Suite 400		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		
103	921071462-103	*No*	NAD (by CVES) by Johana Perez on 08/04/21
	Location: Drywall / Suite 400		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Non-fibrous 90 %		

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
104	921071462-104	*No*	NAD (by CVES) by Johana Perez on 08/04/21
Location: Drywall / Suite 400			
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %			
105	921071462-105	*No*	NAD (by CVES) by Johana Perez on 08/04/21
Location: Drywall / Suite 400			
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %			
106	921071462-106	*No*	NAD (by CVES) by Johana Perez on 08/04/21
Location: Drywall / Suite 400			
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %			
107	921071462-107	*No*	NAD (by CVES) by Johana Perez on 08/04/21
Location: Drywall / Suite 400			
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %			
108	921071462-108	*No*	NAD (by CVES) by Johana Perez on 08/04/21
Location: Drywall / Suite 400			
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %			
109	921071462-109	*No*	NAD (by CVES) by Johana Perez on 08/04/21
Location: Joint Compound / Suite 400			
Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
110	921071462-110	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Joint Compound / Suite 400		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
111	921071462-111	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Joint Compound / Suite 400		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
112	921071462-112	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Joint Compound / Suite 400		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
113	921071462-113	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Joint Compound / Suite 400		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
114	921071462-114	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Joint Compound / Suite 400		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
115	921071462-115	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Joint Compound / Suite 400		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
116	921071462-116	*No*	NAD
Location: 2' x 2' CT / Suite 400			(by CVES) by Johana Perez on 08/05/21
Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile			
Asbestos Types:			
Other Material: Cellulose 10 %, Fibrous glass 10 %, Non-fibrous 80 %			
117	921071462-117	*No*	NAD
Location: 2' x 2' CT / Suite 400			(by CVES) by Johana Perez on 08/05/21
Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile			
Asbestos Types:			
Other Material: Cellulose 10 %, Fibrous glass 10 %, Non-fibrous 80 %			
118	921071462-118	*No*	NAD
Location: 2' x 2' CT / Suite 400			(by CVES) by Johana Perez on 08/05/21
Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile			
Asbestos Types:			
Other Material: Cellulose 10 %, Fibrous glass 10 %, Non-fibrous 80 %			
119	921071462-119	*No*	NAD
Location: Basecove 4" White / Suite 400			(by CVES) by Johana Perez on 08/05/21
Analyst Description: White, Homogeneous, Non-Fibrous, Basecove			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
120	921071462-120	*No*	NAD
Location: Basecove 4" White / Suite 400			(by CVES) by Johana Perez on 08/05/21
Analyst Description: White, Homogeneous, Non-Fibrous, Basecove			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
121	921071462-121	*No*	NAD
Location: Basecove 4" White / Suite 400			(by CVES) by Johana Perez on 08/05/21
Analyst Description: White, Homogeneous, Non-Fibrous, Basecove			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
122	921071462-122	*No*	NAD (by CVES) by Johana Perez on 08/05/21
Location: Carpet Mastic / Suite 400			
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
123	921071462-123	*No*	NAD (by CVES) by Johana Perez on 08/05/21
Location: Carpet Mastic / Suite 400			
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
124	921071462-124	*No*	NAD (by CVES) by Johana Perez on 08/05/21
Location: Carpet Mastic / Suite 400			
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
125	921071462-125	*No*	NAD (by CVES) by Johana Perez on 08/05/21
Location: Basecove 4" Brown / Suite 400			
Analyst Description: Brown, Homogeneous, Non-Fibrous, Basecove **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
126	921071462-126	*No*	NAD (by CVES) by Johana Perez on 08/05/21
Location: Basecove 4" Brown / Suite 400			
Analyst Description: Brown, Homogeneous, Non-Fibrous, Basecove **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
127	921071462-127	*No*	NAD (by CVES) by Johana Perez on 08/05/21
Location: Basecove 4" Brown / Suite 400			
Analyst Description: Brown, Homogeneous, Non-Fibrous, Basecove **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
128	921071462-128	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: 12" x 12" White w/ Blue Spec / File / Break / Fax Rm. / Suite 400		
	Analyst Description: Off-White, Homogeneous, Non-Fibrous, Flooring		
	Asbestos Types:		
	Other Material: Cellulose 2 %, Non-fibrous 98 %		
129	921071462-129	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: 12" x 12" White w/ Blue Spec / File / Break / Fax Rm. / Suite 400		
	Analyst Description: Off-White, Homogeneous, Non-Fibrous, Flooring		
	Asbestos Types:		
	Other Material: Cellulose 2 %, Non-fibrous 98 %		
130	921071462-130	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: 12" x 12" White w/ Blue Spec / File / Break / Fax Rm. / Suite 400		
	Analyst Description: Off-White, Homogeneous, Non-Fibrous, Flooring		
	Asbestos Types:		
	Other Material: Cellulose 2 %, Non-fibrous 98 %		
131	921071462-131	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: 12 x 12 FT "Black" / Lobby - Secutiry break Rm / Floor 1, 400		
	Analyst Description: Black, Homogeneous, Non-Fibrous, Floor Tile		
	Asbestos Types:		
	Other Material: Cellulose 2 %, Non-fibrous 98 %		
132	921071462-132	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: 12 x 12 FT "Black" / Lobby - Secutiry break Rm / Floor 1, 400		
	Analyst Description: Black, Homogeneous, Non-Fibrous, Floor Tile		
	Asbestos Types:		
	Other Material: Cellulose 2 %, Non-fibrous 98 %		
133	921071462-133	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: 12 x 12 FT "Black" / Lobby - Secutiry break Rm / Floor 1, 400		
	Analyst Description: Black, Homogeneous, Non-Fibrous, Floor Tile		
	Asbestos Types:		
	Other Material: Cellulose 2 %, Non-fibrous 98 %		

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
134	921071462-134	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: 2' x 2' CT / Lobby Security Break Rm		
	Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Fibrous glass 10 %, Non-fibrous 80 %		
135	921071462-135	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: 2' x 2' CT / Lobby Security Break Rm		
	Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Fibrous glass 10 %, Non-fibrous 80 %		
136	921071462-136	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: 2' x 2' CT / Lobby Security Break Rm		
	Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile		
	Asbestos Types:		
	Other Material: Cellulose 10 %, Fibrous glass 10 %, Non-fibrous 80 %		
137	921071462-137	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Drywall / Floor 1 E.		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 3 %, Non-fibrous 97 %		
138	921071462-138	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Drywall		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 3 %, Non-fibrous 97 %		
139	921071462-139	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Drywall		
	Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall		
	Asbestos Types:		
	Other Material: Cellulose 3 %, Non-fibrous 97 %		

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
140 **Location:** Drywall	921071462-140	***No***	NAD (by CVES) by Johana Perez on 08/05/21
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 3 %, Non-fibrous 97 %			
141 **Location:** Drywall	921071462-141	***No***	NAD (by CVES) by Johana Perez on 08/05/21
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 3 %, Non-fibrous 97 %			
142 **Location:** Drywall	921071462-142	***No***	NAD (by CVES) by Johana Perez on 08/05/21
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 3 %, Non-fibrous 97 %			
143 **Location:** Drywall	921071462-143	***No***	NAD (by CVES) by Johana Perez on 08/05/21
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 3 %, Non-fibrous 97 %			
144 **Location:** Joint Compound	921071462-144	***No***	NAD (by CVES) by Johana Perez on 08/05/21
Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
145 **Location:** Joint Compound / Floor 1	921071462-145	***No***	NAD (by CVES) by Johana Perez on 08/05/21
Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5665 Plaza Drive

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
146	921071462-146	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Joint Compound / Floor 1		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %		
147	921071462-147	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Joint Compound / Floor 1		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %		
148	921071462-148	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Joint Compound / Floor 1		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %		
149	921071462-149	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Joint Compound / Floor 1		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %		
150	921071462-150	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Joint Compound / Floor 1		
	Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %		
151	921071462-151L1	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: 12" x FT White / Storage / Floor 1		
	Analyst Description: White, Heterogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Cellulose 2 %, Non-fibrous 98 %		

See Reporting notes on last page

PLM Bulk Asbestos Report

5665 Plaza Drive

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
151	921071462-151L2	*No*	NAD
Location: 12" x FT White / Storage / Floor 1			(by CVES) by Johana Perez on 08/05/21
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
152	921071462-152L1	*No*	NAD
Location: 12" x FT White / Storage / Floor 1			(by CVES) by Johana Perez on 08/05/21
Analyst Description: White, Heterogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Cellulose 2 %, Non-fibrous 98 %			
152	921071462-152L2	*No*	NAD
Location: 12" x FT White / Storage / Floor 1			(by CVES) by Johana Perez on 08/05/21
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
153	921071462-153L1	*No*	NAD
Location: 12" x FT White / Lunch Rm / Floor 1			(by CVES) by Johana Perez on 08/05/21
Analyst Description: White, Heterogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Cellulose 2 %, Non-fibrous 98 %			
153	921071462-153L2	*No*	NAD
Location: 12" x FT White / Lunch Rm / Floor 1			(by CVES) by Johana Perez on 08/05/21
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
154	921071462-154	*No*	NAD
Location: 12" x FT Gray / Server Rm / Floor 1			(by CVES) by Johana Perez on 08/05/21
Analyst Description: Grey, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Cellulose 2 %, Non-fibrous 98 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5665 Plaza Drive

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
155	921071462-155	*No*	NAD (by CVES) by Johana Perez on 08/05/21
Location: 12" x FT Gray / Server Rm / Floor 1			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Cellulose 2 %, Non-fibrous 98 %			
156	921071462-156	*No*	NAD (by CVES) by Johana Perez on 08/05/21
Location: 12" x FT Gray / Server Rm / Floor 1			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
157	921071462-157L1	*No*	NAD (by CVES) by Johana Perez on 08/05/21
Location: Basecove 4" White / Floor 1			
Analyst Description: White, Heterogeneous, Non-Fibrous, Basecove **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
157	921071462-157L2	*No*	NAD (by CVES) by Johana Perez on 08/05/21
Location: Basecove 4" White / Floor 1			
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
158	921071462-158L1	*No*	NAD (by CVES) by Johana Perez on 08/05/21
Location: Basecove 4" White / Floor 1			
Analyst Description: White, Heterogeneous, Non-Fibrous, Basecove **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
158	921071462-158L2	*No*	NAD (by CVES) by Johana Perez on 08/05/21
Location: Basecove 4" White / Floor 1			
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5665 Plaza Drive

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
159	921071462-159L1	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Basecove 4" White / Floor 1		
Analyst Description: White, Heterogeneous, Non-Fibrous, Basecove **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
159	921071462-159L2	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Basecove 4" White / Floor 1		
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
160	921071462-160	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Basecove 4" Black / Floor 1		
Analyst Description: Black, Homogeneous, Non-Fibrous, Baseboard **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
161	921071462-161	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Basecove 4" Black / Floor 1		
Analyst Description: Black, Homogeneous, Non-Fibrous, Basecove **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
162	921071462-162	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Basecove 4" Black / Floor 1		
Analyst Description: Black, Homogeneous, Non-Fibrous, Basecove **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
163	921071462-163	*No*	NAD (by CVES) by Johana Perez on 08/05/21
	Location: Fireproofing		
Analyst Description: Off-White, Homogeneous, Fibrous, Fireproofing **Asbestos Types:** **Other Material:** Cellulose 20 %, Non-fibrous 80 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5665 Plaza Drive

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
164	921071462-164	*No*	NAD (by CVES) by Johana Perez on 08/05/21
Location: Fireproofing			
Analyst Description: Off-White, Homogeneous, Fibrous, Fireproofing			
Asbestos Types:			
Other Material: Cellulose 20 %, Non-fibrous 80 %			
165	921071462-165	*No*	NAD (by CVES) by Johana Perez on 08/05/21
Location: Fireproofing			
Analyst Description: Off-White, Homogeneous, Fibrous, Fireproofing			
Asbestos Types:			
Other Material: Cellulose 20 %, Non-fibrous 80 %			
166	921071462-166	*No*	NAD (by CVES) by Johana Perez on 08/05/21
Location: Fireproofing			
Analyst Description: Off-White, Homogeneous, Fibrous, Fireproofing			
Asbestos Types:			
Other Material: Cellulose 20 %, Non-fibrous 80 %			
167	921071462-167	*No*	NAD (by CVES) by Johana Perez on 08/05/21
Location: Fireproofing			
Analyst Description: Off-White, Homogeneous, Fibrous, Fireproofing			
Asbestos Types:			
Other Material: Cellulose 20 %, Non-fibrous 80 %			
168	921071462-168	*No*	NAD (by CVES) by Johana Perez on 08/05/21
Location: Fireproofing			
Analyst Description: Off-White, Homogeneous, Fibrous, Fireproofing			
Asbestos Types:			
Other Material: Cellulose 20 %, Non-fibrous 80 %			
169	921071462-169	*No*	NAD (by CVES) by Johana Perez on 08/03/21
Location: Fireproofing			
Analyst Description: Off-White, Homogeneous, Fibrous, Fireproofing			
Asbestos Types:			
Other Material: Cellulose 20 %, Non-fibrous 80 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

5665 Plaza Drive

Reporting Notes:

Analyzed By: Johana Perez _____; Date Analyzed: 8/3/2021 8.5.21

*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By:_____

9210714462

PACIFIC
ENVIRONMENTAL

Date:	07 / 28 / 2021
Client:	
Site:	565 Plaza Drive
Project No:	
Inspector(s):	Thom. Gannon

Page 1 of 7

ASBESTOS

~~LEAD~~ SAMPLE FIELD LOG AND CHAIN OF CUSTODY

Sample Number	Material Sampled	Sample Location	Condition
.01	DRYWALL		SUITE 350
.02	" "		
.03	" "		
.04	" "		
.05	" "		
.06	" "		
.07	" "		
.08	JOINT COMPOUND		
.09	" "		
.10	" "		
.11	" "		
.12	" "		
.13	" "		
.14	" "		
.15	2X4' CT		
.16	" "		
.17	" "		
.18	12X12 GRAY FT	Break Rm	200
.19	" "		
.20	" "		
.21	CARPET GLUE		
.22	" "		
.23	" "		
24	BASECOVE 2" BROWN		

Any questions please call Thom. Gannon 949-289-3567

Analytical Method: _____

Turn Around Time: 24 48 72 (STD) RUSH
Please email results to
mike@pacificenvironmental.com and
results@pacificenvironmental.com

Pacific Environmental Company
28202 Cabot Road, Suite 300
Laguna Niguel, California 92677

CHAIN OF CUSTODY:

Name	Signature	Date/Time
Thomas Gannon		07/28/2021
		7/28/21 1300

P2

9210714G2

PACIFIC
ENVIRONMENTAL

Date:	07 / 28 / 2021
Client:	
Site:	56 West Plaza Drive
Project No:	
Inspector(s):	Thom. Gannon

Asbestos **FIELD LOG AND CHAIN OF CUSTODY**

Sample Number	Material Sampled	Sample Location	Condition
25	BASECOVE 2" BROWN		SUITE 350
26	" "		
27	DRYWALL		SUITE 300
28	"		
29	"		
30	"		
31	"		
32	"		
33	"		
34	JOINT COMPOUND		
35	" "		
36	" "		
37	" "		
38	" "		
39	" "		
40	" "		
41	12X12 GRAY FT		
42	" "		
43	" "		
44	24" VINYL FT		
45	" "		
46	" "		
47	CARPET MASTIC		
48	" "		

Any questions please call Thom. Gannon 949-289-3567

Analytical Method: _____

Turn Around Time: 24 48 72 STD RUSH
Please email results to
mike@pacificenvironmental.com and
results@pacificenvironmental.com

Pacific Environmental Company
28202 Cabot Road, Suite 300
Laguna Niguel, California 92677

CHAIN OF CUSTODY:

Name	Signature	Date/Time
Thomas Gannon		07 27 2021
		7/28/21 1300

9210714462

PACIFIC
ENVIRONMENTAL

Date:	07 / 27 / 2021
Client:	
Site:	5665 Plaza Dr
Project No:	
Inspector(s):	Thom. Gannon

Asbestos FIELD LOG AND CHAIN OF CUSTODY

Sample Number	Material Sampled	Sample Location	Condition
.49	CARPET MASTIC		SUITE 300
.50	2'X2' CT		
.51	" "		
.52	" "		
.53	Drywall		SUITES 200/250
.54	"		
.55	"		
.56	"		
.57	"		
.58	"		
.59	"		
.60	JOINT COMPOUND		
.61	" "		
.62	" "		
.63	" "		
.64	" "		
.65	" "		
.66	" "		
.67	12"X12" WHITE FT.	COPY RM	
.68	" "		
.69	" "		
.70	2'X2' CT		
.71	" "		
.72	" "		

Any questions please call Thom. Gannon 949-289-3567

Analytical Method: _____

Turn Around Time: 24 48 72 STD / RUSH
Please email results to
mike@pacificenvironmental.com and
results@pacificenvironmental.com

Pacific Environmental Company
28202 Cabot Road, Suite 300
Laguna Niguel, California 92677

CHAIN OF CUSTODY:

Name	Signature	Date/Time
Thomas Gannon		07/27/2021
Raj		7/28/21 1300

9210714462

PACIFIC
ENVIRONMENTAL

Date:	07 / 27 / 2021
Client:	
Site:	5665 Plaza Drive
Project No:	
Inspector(s):	Thom. Gannon

Asbestos SAMPLE FIELD LOG AND CHAIN OF CUSTODY

Sample Number	Material Sampled	Sample Location	Condition
73	Baseboard 3" Brown		Suite 200-250
74	" "		"
75	" "		"
76	Drywall		Suite 500
77	"		"
78	"		"
79	"		"
80	"		"
81	"		"
82	"		"
83	Joint Compound		"
84	" "		"
85	" "		"
86	" "		"
87	" "		"
88	" "		"
89	" "		"
90	Vinyl Plank Wood Pattern		"
91	" "		"
92	" "		"
93	1x2' Beige FT		"
94	" "		"
95	" "		"
96	Baseboard Vinyl		"

Any questions please call Thom. Gannon 949-289-3567

Analytical Method: _____

Turn Around Time: 24 48 72 (STD) RUSH
Please email results to
mike@pacificenvironmental.com and
results@pacificenvironmental.com

Pacific Environmental Company
28202 Cabot Road, Suite 300
Laguna Niguel, California 92677

CHAIN OF CUSTODY:

Name	Signature	Date/Time
Thomas Gannon		07/27/2021
		7/26/21 1300

9210714462

PACIFIC
ENVIRONMENTAL

Date:	07/27/2021
Client:	
Site:	5665 Plaza Dr.
Project No:	
Inspector(s):	Thom. Gannon

Asbestos · SAMPLE FIELD LOG AND CHAIN OF CUSTODY

Sample Number	Material Sampled	Sample Location	Condition
97	Base cove "Vinyl"		Suite 500
98	" "		
99	2x4 CT		
100	" "		
101	" "		
102	Drywall		Suite 400
103	"		
104	"		
105	"		
106	"		
107	"		
108	"		
109	Joint Compound		
110	" "		
111	" "		
112	" "		
113	" "		
114	" "		
115	" "		
116	2'x2' CT		
117	" "		
118	" "		
119	Base cove 4" White		
120	" "		

Any questions please call Thom. Gannon 949-289-3567

Analytical Method: _____

Turn Around Time: 24 48 72 (STD) RUSH
Please email results to
mike@pacificenvironmental.com and
results@pacificenvironmental.com

Pacific Environmental Company
28202 Cabot Road, Suite 300
Laguna Niguel, California 92677

CHAIN OF CUSTODY:

Name	Signature	Date/Time
Thomas Gannon		07/27/2021
		7/28/21 1300

9210714462

PACIFIC
ENVIRONMENTAL

Date:	07 / 27 / 2020
Client:	
Site:	5665 Plaza Drive
Project No:	
Inspector(s):	Thom. Gannon

ASBESTOS BULK SAMPLE FIELD LOG AND CHAIN OF CUSTODY

Sample Number	Material Sampled	Sample Location	Condition
121	Basecove 4" White		Suite 400
122	CARPET MASTIC		
123	" "		
124	" "		
125	BASECOVE 4" BROWN		
126	" "		
127	" "		
128	12"x12" White w/ Blue Spec	File / Break / Fax Rm.	
129	" "		
130	" "		
131	12x12 FT "Black"	Lobby. Security Break Rm	Floor 1 — 400
132	" "	" " "	
133	" "	" " "	
134	2'x2' CT	" " "	
135	" "	" " "	
136	" "	" " "	
137	Drywall		Floor 1 E.
138	"		
139	"		
140	"		
141	"		
142	"		
143	"		
144	Joint Compound		

Any questions please call Thom. Gannon 949-289-3567

Analytical Method: PLM

Turn Around Time: 24 48 72 (STD) RUSH
Please email results to
mike@pacificenvironmental.com and
results@pacificenvironmental.com

Pacific Environmental Company
28202 Cabot Road, Suite 300
Laguna Niguel, California 92677

CHAIN OF CUSTODY

Relinquished by:	Name	Signature	Date/Time
			07 27 2020
Received by:	Name	Signature	Date/Time
			7/28/20 1300

92107146 2

PACIFIC
ENVIRONMENTAL

Date:	02/ 27 /2020
Client:	
Site:	5665 Plaza Drive
Project No:	
Inspector(s):	Thom. Gannon

Page 7 of ___

ASBESTOS BULK SAMPLE FIELD LOG AND CHAIN OF CUSTODY

Sample Number	Material Sampled	Sample Location	Condition
.145	Joint Compound		Floor 1
.146	" "		
.147	" "		
.148	" "		
.149	" "		
.150	" "		
.151	12"X FT White	Storage	
.152	" "	" "	
.153	" "	Lunch Rm	
154	12"X FT Gray	Server Rm	
155	" "	" "	
156	" "	" "	
157	Baseline 4" White		
158	" "		
159	" "		
160	Baseline 4" Black		
161	" "		
162	" "		
163	Fireproofing		
164	"		
165	"		
166	"		
167	"		
168	"		
169	"		

Any questions please call Thom. Gannon 949-289-3567

Analytical Method: PLM

Turn Around Time: 24 48 72 STD RUSH
Please email results to
mike@pacificenvironmental.com and
results@pacificenvironmental.com

Pacific Environmental Company
28202 Cabot Road, Suite 300
Laguna Niguel, California 92677

CHAIN OF CUSTODY

Name	Signature	Date/Time
Thomas Gannon	[signature]	02/27/2020
[signature]	[signature]	7/28/21 1:30

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Pacific Environmental Company
Attn: Mike Lyssy
28202 Cabot Road
Suite 300
Laguna Niguel, CA 92677

Date Received 08/04/21 **AmeriSci Job #** 921081047
Date Examined 08/07/21 **P.O. #**
Page 1 **of** 5
RE: Goodman; 5665 & 5757 Plaza Dr.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
01	921081047-01L1	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
Location: Roof Core / Roof 5665			
Analyst Description: Grey/Black, Heterogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Fibrous glass 5 %, Non-fibrous 95 %			
01	921081047-01L2	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
Location: Roof Core / Roof 5665			
Analyst Description: White, Heterogeneous, Fibrous, Roofing Vinyl **Asbestos Types:** **Other Material:** Synthetic fibers 20 %, Non-fibrous 80 %			
01	921081047-01L3	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
Location: Roof Core / Roof 5665			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Mortar **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
02	921081047-02L1	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
Location: Roof Core / Roof 5665			
Analyst Description: Grey/Black, Heterogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Fibrous glass 5 %, Non-fibrous 95 %			
02	921081047-02L2	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
Location: Roof Core / Roof 5665			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Mortar **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

Goodman; 5665 & 5757 Plaza Dr.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
03	921081047-03L1	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
Location: Roof Core / Roof 5665			
Analyst Description: Grey/Black, Heterogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Fibrous glass 5 %, Non-fibrous 95 %			
03	921081047-03L2	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
Location: Roof Core / Roof 5665			
Analyst Description: White, Heterogeneous, Fibrous, Roofing Vinyl **Asbestos Types:** **Other Material:** Synthetic fibers 20 %, Non-fibrous 80 %			
03	921081047-03L3	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
Location: Roof Core / Roof 5665			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Mortar **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
04	921081047-04	*No*	NAD (by CVES) by Thu M. Nguyen 08/07/21
Location: Roof Core / Roof 5757			
Analyst Description: Wh Black, Heterogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Fibrous glass Synthetic fibers 5 %, Non-fibrous 90 %			
05	921081047-05		NAD (by CVES) by Thu M. Nguyen on 08/07/21
Location: Roof Core / Roof 5757			
Analyst Description: Beige/Black, Heterogeneous, Fibrous oofing **Asbestos Types:** **Other Material:** Fibrous glass 10 %, Synth bers 5 %, Non-fibrous 85			
06	921081047-06	*No*	NAD (by CVES) by Thu M. Nguyen 08/07/21
Location: Ro ore / Roof 5757			
Analyst Descripti Beige/Black, Heterogeneous, Fibrous, Roofing **Asbesto ypes:** **O er Material:** Fibrous glass 10 %, Synthetic fibers 5 %, Non-fibrous 85 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

Goodman; 5665 & 5757 Plaza Dr.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
07	921081047-07	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
	Location: Roof Core / Roof 5757		
	Analyst Description: Beige/Black, Heterogeneous, Fibrous, Roofing		
	Asbestos Types:		
	Other Material: Fibrous glass 10 %, Synthetic fibers 5 %, Non-fibrous 85 %		
08	921081047-08	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
	Location: Roof Core / Roof 5757		
	Analyst Description: Beige/Black, Heterogeneous, Fibrous, Roofing		
	Asbestos Types:		
	Other Material: Fibrous glass 10 %, Synthetic fibers 5 %, Non-fibrous 85 %		
09	921081047-09	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
	Location: Roof Core / Roof 5757		
	Analyst Description: Beige/Black, Heterogeneous, Fibrous, Roofing		
	Asbestos Types:		
	Other Material: Fibrous glass 10 %, Synthetic fibers 5 %, Non-fibrous 85 %		
10	921081047-10	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
	Location: Roof Core / Roof 5757		
	Analyst Description: Beige/Black, Heterogeneous, Fibrous, Roofing		
	Asbestos Types:		
	Other Material: Fibrous glass 10 %, Synthetic fibers 5 %, Non-fibrous 85 %		
11	921081047-11	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
	Location: Roof Core / Roof 5757		
	Analyst Description: Beige/Black, Heterogeneous, Fibrous, Roofing		
	Asbestos Types:		
	Other Material: Fibrous glass 10 %, Synthetic fibers 5 %, Non-fibrous 85 %		
12	921081047-12	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
	Location: Roof Core / Roof 5757		
	Analyst Description: Beige/Black, Heterogeneous, Fibrous, Roofing		
	Asbestos Types:		
	Other Material: Fibrous glass 10 %, Synthetic fibers 5 %, Non-fibrous 85 %		

See Reporting notes on last page

PLM Bulk Asbestos Report

Goodman; 5665 & 5757 Plaza Dr.

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
13	921081047-13	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
Location: Roof Core / Roof 5757			
Analyst Description: Beige/Black, Heterogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Fibrous glass 10 %, Synthetic fibers 5 %, Non-fibrous 85 %			
14	921081047-14	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
Location: Roof Core / Roof 5757			
Analyst Description: Beige/Black, Heterogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Fibrous glass 10 %, Synthetic fibers 5 %, Non-fibrous 85 %			
15	921081047-15	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
Location: Roof Core / Roof 5757			
Analyst Description: Beige/Black, Heterogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Fibrous glass 10 %, Synthetic fibers 5 %, Non-fibrous 85 %			
16	921081047-16	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
Location: Roof Mastic @ Penetrations / Roof 5757			
Analyst Description: White/Silver/Black, Heterogeneous, Non-Fibrous, Roofing Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
17	921081047-17	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
Location: Roof Mastic @ Penetrations / Roof 5757			
Analyst Description: White/Silver/Black, Heterogeneous, Non-Fibrous, Roofing Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
18	921081047-18	*No*	NAD (by CVES) by Thu M. Nguyen on 08/07/21
Location: Roof Mastic @ Penetrations / Roof 5757			
Analyst Description: White/Silver/Black, Heterogeneous, Non-Fibrous, Roofing Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

Goodman; 5665 & 5757 Plaza Dr.

Reporting Notes:

Analyzed By: Thu M. Nguyen Thumnguyen; Date Analyzed: 8/7/2021 8.7.21

*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By:

PACIFIC ENVIRONMENTAL

Date:	08/04/2021
Client:	GOODMAN
Site:	5665 & 5757 PLAZA DR.
Project No:	
Inspector(s):	Thom. Gannon

Page 1 of 1

92108047

ASBESTOS BULK SAMPLE FIELD LOG AND CHAIN OF CUSTODY

Sample Number	Material Sampled	Sample Location	Condition
01	ROOF CORE	ROOF 5665	SEE DRAWINGS
02	" "	" "	FOR LOCATIONS
03	" "	" "	
04	" "	ROOF 5757	
05	" "	" "	
06	" "	" "	
07	" "	" "	
08	" "	" "	
09	" "	" "	
10	" "	" "	
11	" "	" "	
12	" "	" "	
13	" "	" "	
14	" "	" "	
15	" "	" "	
16	ROOF MASTIC @ PENETRATIONS	" "	
17	" "	" "	
18	" "	" "	

Any questions please call Thom. Gannon 949-289-3567

Analytical Method: PLM

Turn Around Time: 24 48 72 STD RUSH
Please email results to
mike@pacificenvironmental.com and
results@pacificenvironmental.com

Pacific Environmental Company
28202 Cabot Road, Suite 300
Laguna Niguel, California 92677

CHAIN OF CUSTODY:

Name	Signature	Date/Time
Thomas Gannon		08/04/2021
Glenda Urzua		8/9/21 @ 14:20

Appendix C

Certifications

STATE OF CALIFORNIA — Gavin Newsom, Governor

DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health
Asbestos Certification & Training Unit
1750 Howe Avenue, Suite 460
Sacramento, CA 95825
(916) 574-2993 Office http://www.dir.ca.gov/dosh/asbestos.html acru@dir.ca.gov

402221311C 83

Pacific Environmental Company
Michael J Lyssy
28202 Cabot Road, Suite 300
Laguna Niguel CA 92677

February 17, 2021

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

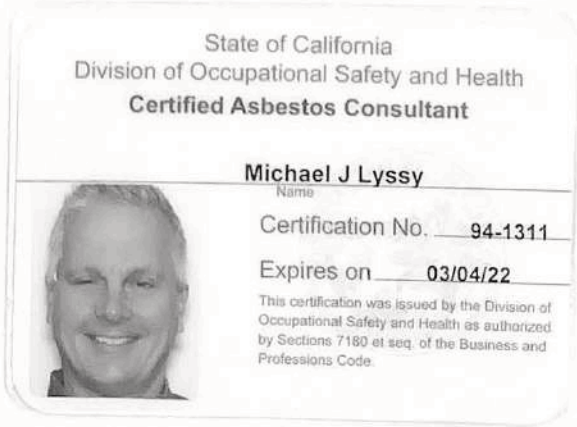
Please notify our office via U.S. Postal Service or other carrier of any changes in your mailing or work address within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Safety Engineer

Attachment: Certification Card

cc: File


State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Michael J Lyssy
Name

Certification No. **94-1311**

Expires on **03/04/22**

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.

Renewal – Card Attached (Revised 06/2020)

STATE OF CALIFORNIA — Gavin Newsom, Governor

DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health
Asbestos Certification & Training Unit
1750 Howe Avenue, Suite 460
Sacramento, CA 95825
(916) 574-2993 Office http://www.dir.ca.gov/dosh/asbestos.html acru@dir.ca.gov

002182726T 198 200

March 11, 2021

Thomas M Gannon
1831 Conquista Avenue
Long Beach CA 90815

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please notify our office via U.S. Postal Service or other carrier of any changes in your mailing or work address within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Safety Engineer

Attachment: Certification Card

cc: File

Renewal – Card Attached (Revised 06/2020)

APPENDIX C

GEOTECHNICAL EVALUATION

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G3SoilWorks

GEOLOGY · GEOTECH · GROUNDWATER

MEMORANDUM

GLC Cypress LLC
3333 Michelson Drive, Suite 1050
Irvine, California 92612

August 25, 2023
Project No. 1-1209

Attention: Mr. Blair Dahl

Subject: Updated Earthwork Considerations
Goodman Commerce Center Cypress
Building 3, 5665 Plaza Drive
Cypress, California

Reference: G3SoilWorks, Inc., Geotechnical Investigation and Report Update, Proposed Goodman Commerce Center, 5665 and 5757 Plaza Drive, Cypress, California, dated May 4, 2022, Project No. 1-1209.

Dear Mr. Dahl,

This memorandum provides updated earthwork recommendations for planned Building 3 at the 5665 Plaza Drive site for the subject project. This update has been prepared based on modifications / additional recommendations provided as part of project evolution during the design phase for Buildings 1 and 2 at the 5757 Plaza Drive location addressed in the referenced geotechnical report.

Deep Dynamic Compaction

Deep Dynamic Compaction (DDC) is currently being considered to provide in-situ ground stabilization as an option to mitigate potential site soil liquefaction and provide acceptable support for the planned Building No. 3. It is anticipated that this DDC program would occur over an approximately one-month period during which time site vibration monitoring would be performed by G3SoilWorks.

Revised Site Remedial Grading Recommendations

The referenced geotechnical report provides general site remedial grading recommendations associated with the pavement / ancillary construction and completion of structure pads following in-situ ground improvement, with actual magnitude of remedial grading to be refined based on ground improvement considerations. Presented below are revised preliminary remedial grading

recommendations within the limits of proposed DDC and beyond the limits of planned DDC, respectively.

Areas Within the Limits of DDC

In-situ ground improvement utilizing deep dynamic compaction methods is currently planned to provide support for the planned structure for the proposed development. Within these areas, remedial grading is anticipated to be limited to the extent necessary to achieve finish pad grade elevations, including scarification / recompaction of the exposed subgrade to provide minimum 90 relative compaction in areas to receive additional fill and 95 percent relative compaction at finish pad subgrade elevations.

Areas Beyond the Limits of DDC

Recommendations were provided in the referenced geotechnical report for the over-excavation / recompaction of existing site soils to 5 feet (minimum) depth below existing or planned site grades, whichever depth is lower, for the support of planned exterior hardscape / pavement construction. In view of the shallow existing groundwater levels underlying the project site, the remedial grading recommendations for these areas were revised to a 2-foot (minimum) depth below existing or planned grades, whichever depth is lower. Exposed bottoms would be evaluated for acceptability by a representative of our office and additional over-excavation performed, where necessary. Acceptable over-excavation bottoms would then be scarified and recompacted to at least 90 percent relative compaction prior to the backfilling / placement of approved engineered compacted fill.

Underground Stormwater Storage Chambers

An underground stormwater chamber is planned below the truck court area along the west side of this building. This chamber tentatively will measure approximately 26 feet by 175 feet in plan area and extend approximately 12 feet in depth. Excavation for and installation of this stormwater storage chamber as currently planned would therefore necessitate the need for localized site dewatering operations.

Limitations

The recommendations presented herein were developed in accordance with generally accepted professional engineering principles and local practice in the field of geologic and geotechnical engineering and reflect our best professional judgment. We make no other warranty, either express or implied.

Closure

We trust this addendum report is adequate for your needs at this time. Should you have any questions or need additional information, please do not hesitate to contact the undersigned.

All other recommendations presented in the referenced report, except as superseded by the recommendations presented herein, remain valid and in effect for the subject project.

Sincerely,

G3SoilWorks, Inc.

By: _____
Daniel J. Morikawa, P.E., G.E.
Director of Engineering

REGISTERED PROFESSIONAL ENGINEER
DANIEL J. MORIKAWA
GE 2726
GEOTECHNICAL
STATE OF CALIFORNIA

By: _____
Steve E. Strickler, P.E., G.E.
CEO / Principal Geotechnical Engineer

REGISTERED PROFESSIONAL ENGINEER
STEVEN E. STRICKLER
GE 2265
GEOTECHNICAL
STATE OF CALIFORNIA

Distribution: Addressee (Blair.Dahl@goodman.com)
Goodman: Attn: Mr. Matthew Davidson (Matthew.Davidson@goodman.com)
Goodman: Attn: Mr. Gonzalo D'Ambrosio (Gonzalo.dambrosio@goodman.com)
Keller: Attn: Mr. Sunil Arora (Sarora@keller-na.com)

G3SoilWorks

GEOLOGY · GEOTECH · GROUNDWATER

Goodman
18201 Von Karman Avenue, Suite 1170
Irvine, California 92612

May 4, 2022
Project No. 1-1209

Attention: Mr. Blair Dahl

Subject: Geotechnical Investigation and Report Update
Proposed Goodman Commerce Center
5665 and 5757 Plaza Drive
Cypress, California

References: See attached List of Selected References

Dear Mr. Dahl,

Pursuant to your request and authorization, G3SoilWorks, Inc. (G3), has prepared this geotechnical investigation report update for the proposed commercial / industrial development to be located at 5665 and 5757 Plaza Drive, in the city of Cypress, California. This report update was prepared based on our review of available documents and plans provided by your office, preliminary assessment and independent analysis of the data presented in the referenced reports by others, desktop site research and onsite reconnaissance, supplemental field subsurface exploration, laboratory testing, and engineering geologic evaluation / geotechnical engineering analysis of our field findings. A summary of our evaluation / findings and geotechnical recommendations for site development are included and presented herein.

SITE LOCATION / DESCRIPTION

The project site is located at the subject address (5665 and 5757 Plaza Drive) in the City of Cypress, California. As shown on Figure 1 (attached), Plaza Drive partially bounds the site to the south / southeast and is accessed via intersections with Katella Avenue and Valley View Street, south and east of the site, respectively. Currently, the site is understood to be occupied by the Cypress Technology Center which includes an existing approximately 5-story office building associated with the 5665 property address, a large commercial / industrial building and office complex associated with the 5757 property address, and associated parking areas concentrated near the northwest corner of the site and around the perimeters of the existing buildings.

The 5665 property is approximately 450 feet by 800 feet in area and occupies the westerly 8.3± acres of the site with the existing office complex occupying an “L”-shaped footprint of approximately 0.82 acres. The 5757 property is larger (approximately 750 feet by 950 feet) and comprises the easterly 16.4± acres of the site with the existing commercial / industrial building

complex occupying a rectangular area of about 7.2 acres. The topography of the site is relatively flat to very gently sloping. Site elevations in feet above the North American Vertical Datum of 1988 (NAVD88) are estimated to range from approximately Elevation (El.) 38± feet near the northeast and southeast corners of the site, El. 39± feet near the center of the site, and El. 35-36± feet near the northwest and southwest corners of the site, respectively.

PROJECT UNDERSTANDING

Three (3) commercial / industrial buildings are currently proposed across this project site, with each building including 1st and 2nd floor office areas and a warehouse with attendant loading docks and associated paved parking and driveway areas. A Concept Grading Plan (Reference No. 1) for the easterly 5757 property shows Building 1 (199,909 square feet) and Building 2 (180,359 square feet) occupying the easterly and westerly portions of the property. Conceptual plans for the 5665 property were not available at the time of this report, but we understand that Building 3 (185,412 square feet) will be of a similar type of construction (i.e., concrete tilt-up frame construction) with similar appurtenances relative to Buildings 1 / 2.

Structural details were not available at the time of this report update. For the purposes of this report, it is assumed that the planned structures will consist of concrete tilt-up frame construction with associated truck docks. Maximum column and wall loadings not exceeding about 200 kips and 5 kips per lineal foot, respectively, have been assumed for preliminary design purposes. Should the planned design / construction loadings vary from those indicated herein, this office should be notified in order to provide comment and/or updated geotechnical recommendations for design, as appropriate.

PROJECT BACKGROUND AND PREVIOUS STUDIES

Previous studies for the project were performed by Southern California Geotechnical (SCG), the findings of which were presented in SCG's Geotechnical Feasibility Study dated June 7, 2021 (Reference No. 2) and subsequent Geotechnical Investigation Report dated September 29, 2021 (Reference No. 3). Field subsurface investigation for both properties was performed by SCG as part of their Geotechnical Feasibility Study and included the drilling of four (4) soil borings (B-1 through B-4) and four (4) Cone Penetration Tests (CPT-1 through CPT-4) to depths of 50 feet below existing ground surface. SCG's subsequent study / Geotechnical Investigation Report included nine (9) additional borings (B-5 through B-14) and four (4) additional CPTs (CPT-4 through CPT-8) with recommendations provided for buildings located on the 5757 property (now referred to as Buildings 1 and 2, respectively, per Concept Grading Plan; Reference No. 1). Actual logs of borings B-5 through B-7 and CPT-5/-6, including associated laboratory test results, were not available for our review. The CPT data files were also not available for our review and re-evaluation.

SCG identified shallow groundwater levels at 5 to 9.5 feet below existing ground surface and potentially liquefiable soil conditions at depths between 5 and 50 feet below existing ground surface. Recommendations for remedial grading combined with or without specialized ground improvement techniques to depths of 15 feet were provided with the intent of supporting the

planned structures on shallow conventional foundations. Conventional foundation criteria were provided when considering remedial grading to 15 feet depth, with reported post-construction settlements expected to be within tolerable limits for conventional foundations. However, based on our review of the previous studies by SCG, estimated total and differential settlement potentials were not provided for design, and settlements due to potential soil liquefaction below the proposed 15-feet-depth of remedial grading did not appear to have been addressed. Additionally, the proposed remedial grading would intercept shallow groundwater, requiring extensive dewatering.

In view of the above, G3 was retained to review and evaluate the findings / recommendations of the previous geotechnical consultant (SCG), perform supplemental subsurface exploration, and develop alternative recommendations for the proposed development. G3 has completed this additional phase of study and summarized our findings / recommendations herein as the new / current Geotechnical Consultant of Record (see below).

CHANGE OF GEOTECHNICAL CONSULTANT OF RECORD

G3SoilWorks, Inc. (G3), has been retained and should be considered as the current Geologic / Geotechnical Consultant of Record for the subject project. As the Consultant of Record, G3 has reviewed the referenced reports prepared by Southern California Geotechnical (SCG; Reference Nos. 2-3), accepts the data, and generally concurs with their conclusions and recommendations, with the exception of those superseded herein.

PURPOSE AND SCOPE

The purpose of our geotechnical investigation was to re-assess and evaluate the findings / evaluation / recommendations for the deep removal / recompaction remedial grading scheme presented by the previous geotechnical consultant and provide alternative in-situ ground improvement considerations for structure support.

Our scope of work included the following tasks:

- Review of available pertinent geologic and geotechnical reports and maps specific to the project site and vicinity
- Preliminary site reconnaissance and boring layout;
- The drilling of 5 borings to depths of 25 to 51.5 feet below existing grade utilizing a truck-mounted drilling rig equipped with an eight-inch diameter hollow-stem auger, and associated soil sampling and logging by our geologist / engineer to substantiate the subsurface findings reported by the previous consultant and obtain additional subsurface information.
- A total of five (5) monitoring wells were installed to determine static water levels and provide a means of groundwater monitoring in advance of and during construction.
- Review of the liquefaction analyses performed by the previous consultant and perform two (2) additional Cone Penetrometer Tests to depths of 50 feet below grade for liquefaction evaluation;

- Laboratory testing, including moisture content and dry density of relatively undisturbed samples obtained in the field, maximum density / optimum moisture relationship, expansion index, hydrometer, classification, consolidation, direct shear, and Atterberg limits;
- Engineering geologic / geotechnical evaluation and analysis of the findings by our office and those presented in the referenced reports relative to the existing site conditions / proposed development, including geologic hazards and re-evaluation of potential site liquefaction;
- Consultation with our ground improvement design / build specialist to develop criteria for use in ground stabilization and preliminary recommendations for remedial grading / ground improvement, and foundation design criteria;
- Preparation of this written report presenting a summary of our field findings, laboratory test results, and updated recommendations for grading, preliminary criteria for ground improvement, foundation design and construction, and utility trench excavation considerations.

GEOLOGY

Regional Geologic Setting

The Los Angeles and Orange County coastal areas are adjacent to what is referred to as California's "Continental Borderland" geomorphic province – representing an area of transition between continental and marine environments associated with the geologic development of the Los Angeles Basin (LA Basin, Figure A). Over the past 20 million years of geologic time, tectonic reorganization of the southern California landscape along the "Big Bend" of the San Andreas Fault Zone (SAFZ) caused areas associated with the LA Basin to subside / down-drop, forming a major structural depression / sedimentary basin during early to middle Miocene time (15-20 million years ago). This depression initially formed an offshore marine environment that persisted for millions of years and filled with marine sediments sourced from the rapidly evolving highlands. Within the last 2-3 million years, tectonic uplifts that developed along the Newport-Inglewood / Rose Canyon Fault Zone (NIRCFZ) to the west and Whittier Fault Zone (WFZ) to the north caused the basin to uplift and fill with terrestrial and marine sediments, eventually becoming an evolving emergent plain. The source of the infill sediments was a combination of both marine and terrestrial sediments deposited by the ancestral Santa Ana, Los Angeles, and San Gabriel River systems. Over the last approximate 120-thousand years of geologic time, alluvial sedimentary fans have built-out / prograded southwestward toward the Pacific Ocean from the mouth of Santa Ana Canyon, forming the upland areas of the Orange County coastal plain. The Orange County coastal plain, City of Cypress, and project site are located within the southeasterly margins of the LA Basin, west of the historic Santa Ana River Channel, and are underlain by thousands of feet of Tertiary sediments and crystalline basement rocks of the Peninsular Ranges Geomorphic Province of southern California.

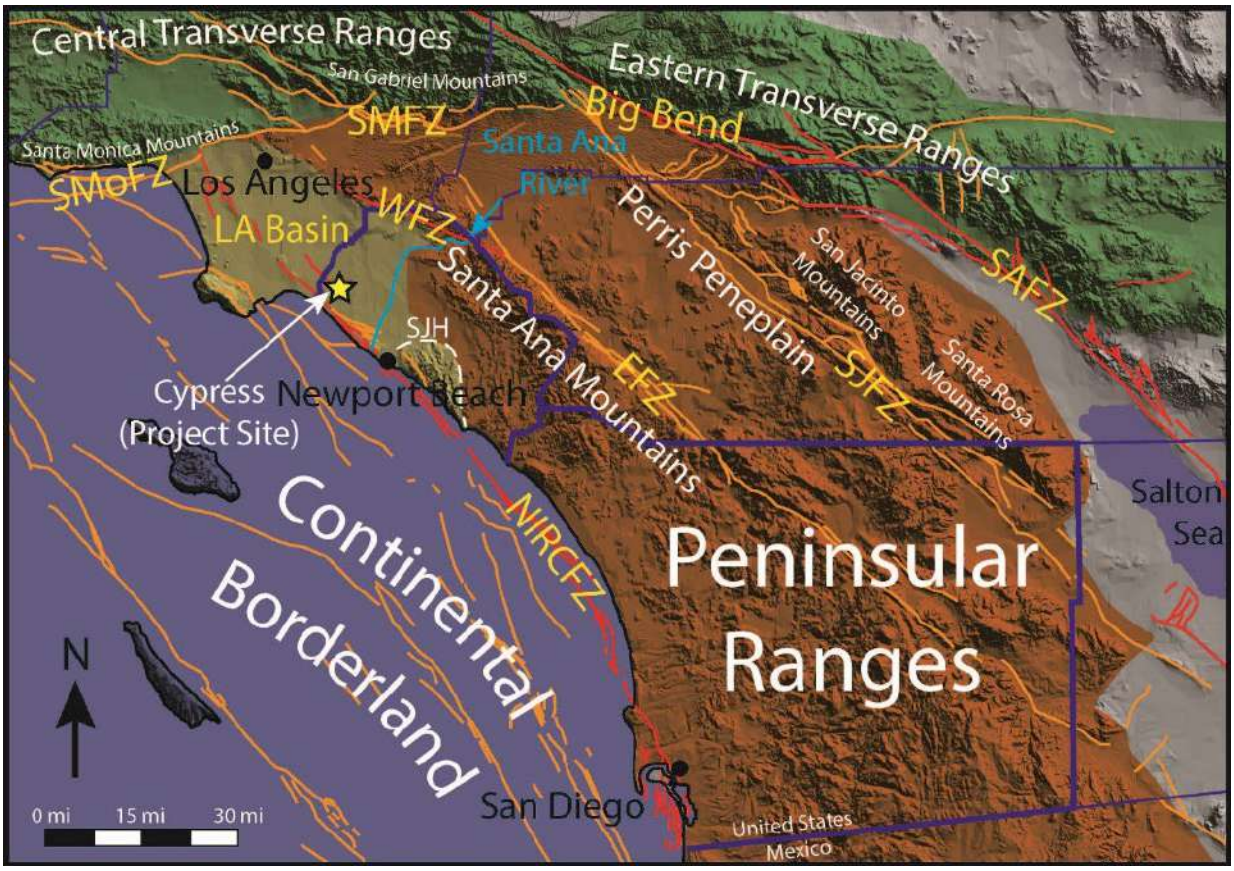


Figure A. Map of Local Geomorphic Provinces, Regional Fault Lines, and Related Landforms including: the Peninsular Ranges (orange), Continental Borderland (blue), and Transverse Ranges (green); the San Andreas, Newport-Inglewood / Rose Canyon, and Whittier fault zones (SAFZ, NIRCFZ, and WFZ, respectively; red lines); the San Jacinto (SJFZ), Elsinore (EFZ), Santa Monica (SMoFZ), and Sierra Madre (SMFZ) fault zones (orange lines). The project site (yellow star) is located along within the southeasterly interior margins of the Los Angeles Basin (LA Basin; yellow), a geomorphic sub-province forming the "join" between the three surrounding provinces. The San Joaquin Hills (dashed, white outline) represent the uplifted southeastern extension of the LA Basin to the southeast. County lines shown in dark blue with the project site located in Orange County. Approximate alignment of Santa Ana River is shown in light blue.

Local Geology / Geomorphology

Review of historic topographic maps dating back to the early 1900's (Figure B, below) indicates that the site is located near the terminus of the abandoned northern branch of the ancestral Santa Ana River and the headwaters of Anaheim Creek, which historically drained into the wetlands of Seal Beach (now known as the Seal Beach National Wildlife Refuge). Regional geologic mapping (Figure 3, attached) indicates that the site is underlain by Quaternary young alluvial deposits – Unit 2 (Qya_2) of late Pleistocene to Holocene age. The local alluvial deposits are described as, "*Poorly consolidated, poorly sorted, permeable flood-plain deposits consisting of soft clay, silt and loose to moderately dense sand and silty sand*". Sediments underlying the site / vicinity are understood to be fluvial in origin, having been transported by floodwaters of the

ancestral San Gabriel and Santa Ana River drainages, deposited as broad sheets and anastomosing lobes of sediment across an ancient flood plain. These relatively ancient flood-plain deposits, now at elevations of 35-40 feet above sea level, likely began accumulating in a low-lying wetland, similar to the historic wetlands of Seal Beach to the southwest. During the late Pleistocene / early Holocene climatic transition (10- to 20-thousand years ago), local relative sea level was more than 300 feet below its modern level, but rapidly rose in response to climate change and influx of glacial meltwater into Earth's oceans. This rapid sea level rise essentially drowned the coastal zone and flooded former wetland areas that would subsequently infill and be buried by terrestrial alluvium transported and deposited by the Santa Ana and San Gabriel Rivers. As these sediments continued to accumulate, they developed into broad alluvial fans that prograded / built-out from ancient stream channels, displacing and/or maintaining the Pacific Coastline to the southwest. The result of this apparently rapid depositional history is an elevated, alluvial flood-plain that buried / infilled an ancient wetland, creating the relatively flat / low-lying terrain and alluvial deposits present under the site.

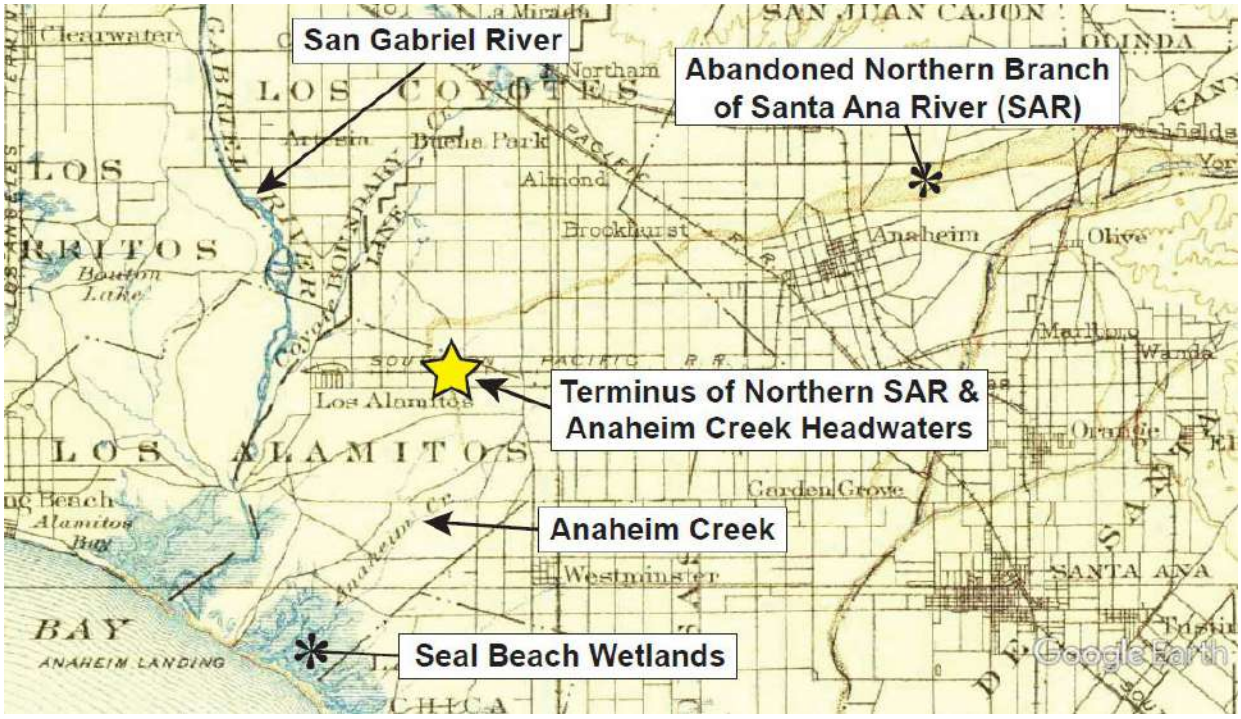


Figure B. Historic Topographic Map of Southern California from U.S. Geological Survey – Southern California Sheet No. 1, 1:250,000 Scale, 250-feet Contour Interval, May 15, 1910 Edition. Note that the site (yellow star) is located near the terminus of the ancestral Santa Ana River's abandoned north branch, and the headwaters of historic Anaheim Creek, which ultimately drains into wetlands of Seal Beach (Note: Not to Scale; For Illustrative Purposes Only).

Site History

According to PropertyShark and LoopNet commercial real estate website, the existing structures that currently occupy the 5665 and 5757 properties were reportedly constructed in 1988 and 1991,

respectively. Review of vintage topographic maps and historic aerial photos dating back to the early 1900s indicates that the site originated as part of a largely undeveloped, rectangular parcel, with the majority of the local area either similarly undeveloped or agricultural. By the early 1930s, some housing and limited urbanization, including a petroleum tank farm to the northwest, is scattered throughout the greater vicinity. As of 1950 (Figure C, below), the site was part of a group of agricultural parcels proximal to the Southern Pacific Rail Line, the Los Alamitos Race Track and Army Airfield Complex, and other developments can be seen in the area. By 1960, the airfield had expanded to near its modern configuration and much of the surrounding vicinity had become urbanized. The site area remained agricultural through 1970, but much of the surrounding area was urbanized and developed by 1980. The site and immediate vicinity however remained agricultural until about 1985. In 1990, the site's configuration was apparently established similar to today.

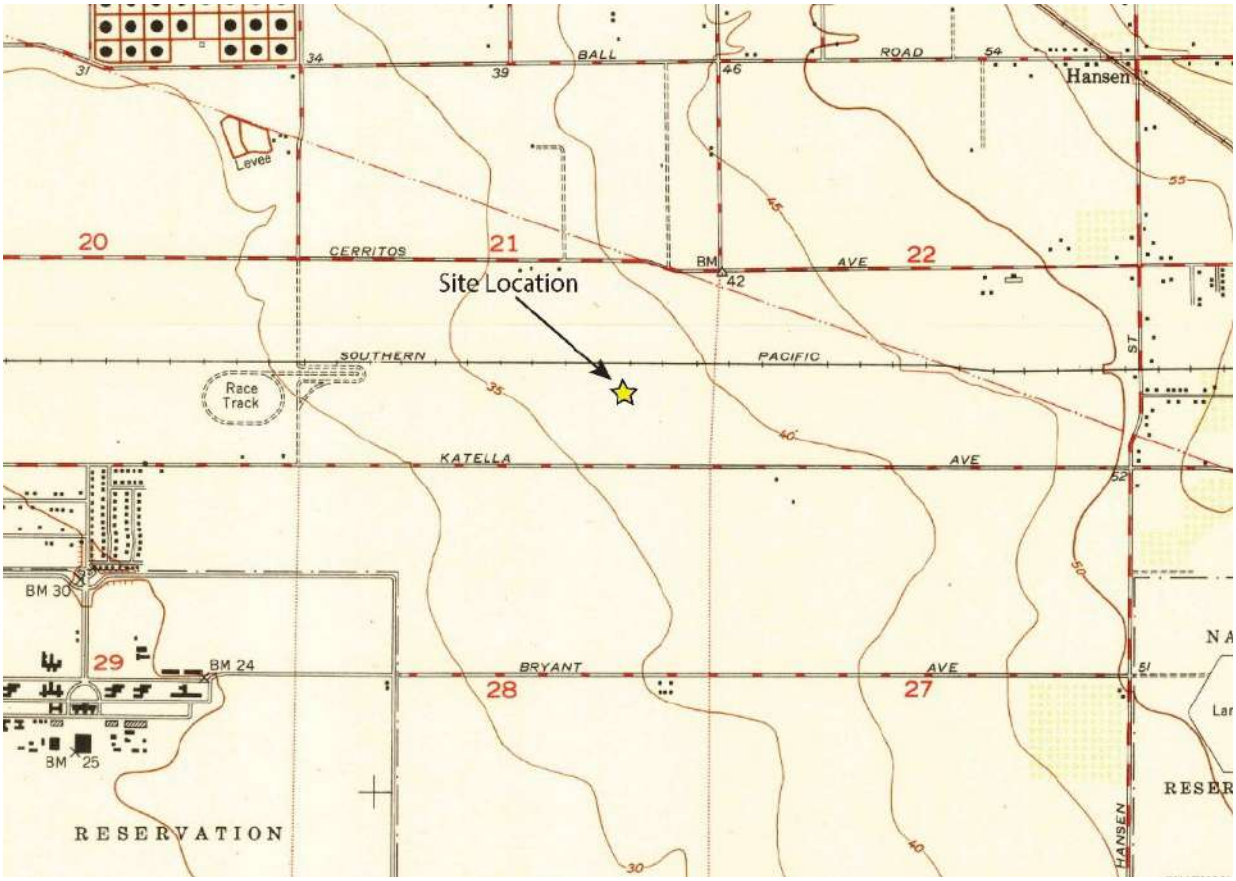


Figure C. Excerpt from U.S. Geological Survey 1950 topographic map of the Los Alamitos Quadrangle (1:24,000 scale; 5-foot contour interval) showing approximate location of project site at Elevation 37± feet above mean sea level (not to scale; site location is approximate; for illustrative purposes only).

With regards to the above, no buildings or other meaningful development were noted on or very near the site until the current development. The agricultural uses, based on historical review, indicate only "open ranch" replaced later by basic row crops. With respect to anthropological

development, the general area was open space that served as a mix of rural and agricultural development. This continued through the early to mid-20th century. During that time, agricultural processing and use may have influenced the upper few to possibly locally several feet of onsite soils. Since that time, the area has been subject to heavy urbanization. This has likely created minor fills and modifications to the topography. The modifications include roadways, building pads and similar in support of development. This results in local fills and cuts of a few to locally several feet. The area has been heavily urbanized. Locally, the majority of the area is built out. The existing conditions onsite are part of a larger commercial development ("Cypress Technology Center") that includes commercial buildings and associated paved parking areas.

Flood Hazards

The major drainages – namely the San Gabriel and Santa Ana Rivers – have been largely channelized, along with storm water controls effectively "stabilizing" the area from further fluvial activity. Review of FEMA Flood Hazard Mapping (06059C0116J) indicates that the site is outside the 100-year flood plain but within the 500-year flood plain (i.e., in a zone assigned a 0.2-percent chance of being flooded in any given year or once every 500 years on average).

Local Faulting / Seismicity

Our desktop research indicates that the site is not underlain by any known active faults (i.e., Holocene faults that have ruptured in last 11,700 years and are likely to rupture in the future per the Alquist-Priolo Earthquake Fault Zoning Act). According to the Cypress General Plan, the nearest zoned "active" fault includes the Newport-Inglewood Fault Zone (5.1 miles southwest of the project site). Other nearby "active" faults include the Whittier-Elsinore Fault Zone (11.6 miles northeast of the project site). Nearby Quaternary faults includes an inferred portion of the Los Alamitos fault, located 2.2 miles southwest of the site, the faults in West Coyotes Hills, 8.2 miles northeast of the site, and the El Modena fault and Peralta Hills fault, located 10.2 and 11.3 miles easterly of the site, respectively. A nearby pre-Quaternary fault is the Norwalk fault, located 5.2 miles northeast of the site. Another concealed fault line (presumed inactive) is located approximately 0.85 miles southwest of the site, parallel to trend of the Los Alamitos Fault.

The local area is seismically active and subject to being impacted by large / damaging earthquakes. Recent historic damaging earthquakes affecting the local area include the 1987 magnitude (Mw) 5.9 Whittier Narrows earthquake and 1994 Mw 6.7 Northridge earthquake, caused by blind thrust faults located in the northern Puente Hills and San Fernando Valley, respectively. These earthquakes generated moderate to strong ground shaking in the local area and slight damage to local structures (Modified Mercalli Intensity V-VI at the subject site). The 1933 magnitude (M_w) 6.4 Long Beach Earthquake reportedly caused severe ground shaking (Modified Mercalli Intensity VIII) and moderate to heavy damage to structures in the local area according to the California Department of Conservation, based on the work of Barrows (1970, Reference No. 4), Trifunac (2003, Reference No. 5), and others. Larger / more damaging earthquakes have the potential to affect the local area in association with seismic events on the San Andreas, San Jacinto, Elsinore, Newport-Inglewood, and other regional fault lines affecting southern California.

The Los Alamitos Quadrangle is a Seismic Hazards Zone and is discussed in SHZR 019. The SHZR notes that the vicinity of the site is susceptible to liquefaction. This is described in more detail in the Seismic Hazards section of this report.

GEOTECHNICAL INVESTIGATION

Field and Laboratory Investigation

On December 13th, 2021, two CPT borings (CPT-1 and CPT-2) were advanced to depths of approximately 50 feet below existing site grade. Between January 3, 2022, and January 4, 2022, five hollow-stem augured borings (B-1 through B-5) were advanced to depths of approximately 31.5 feet and 51.5 feet below existing site grades, respectively. The approximate location of these borings and CPTs by G3 are shown on the attached Boring / CPT Location and Groundwater Map (Figure 2), along with the locations of previous borings / CPTs by SCG. Soil samples were obtained at selected depths and transported to the laboratory for testing.

Geotechnical boring logs for the hollow-stem auger borings and CPT results are included in Appendix A and Appendix B, respectively. Laboratory testing was performed on representative soil samples obtained during the field exploration to determine geotechnical properties of the site's subsurface materials, and the results of this testing are included in Appendix C. Boring logs, CPT results, and related information excerpted from SCG's previous reports (Reference Nos. 2 and 3) are included in Appendix D and Appendix E, respectively.

Subsurface Conditions

Based on the findings of our subsurface exploration, the project site is underlain, in general, by shallow fills and Quaternary alluvial deposits (Qal; synonymous with Unit Qya_2 of Figure 3, described in Local Geology / Geomorphology section). Artificial fill was noted within the upper 5± feet and generally consisted of dark grayish brown, moist to very moist, medium-dense, silty sands. Below about 5 feet depth, the native alluvial materials consisted primarily of very moist to wet silty sands / sandy silts with interbeds / discontinuous lenses of clayey silt / silty clay and poorly-graded sands noted between 35 and 40 feet. A distinct / apparently widespread layer of clayey silt / silty clay was noted at about 15± feet and 32.5 feet in Borings B-1 through B-5, consistent with previous borings by SCG. In general, the relative density and consistency of the alluvial materials, based on SPT / Cal-Mod blow counts, was noted to be predominantly loose to medium-dense and soft to firm. The fine-grained soils were generally low to very low / non-plastic in terms of apparent plasticity. It is likely that some of the fill materials, particularly the lower portions, are of an agricultural nature. Although we did not have opportunity to review any engineering information about the grading of the original development, based on available subsurface information, this agricultural fill may have been processed to varying degrees to accommodate the current development. No adverse organics were noted, however scattered roots and similar were reported in both our and the prior consultant SCG's work. Shallow groundwater conditions are present at the site, with first water occurring at depths of about 6-9 feet below existing surface elevations. Additional information regarding groundwater conditions is provided below.

Groundwater

Monitoring Well Installation / Recent Water Levels

Groundwater was initially encountered / noted in borings B-1 through B-5 between 7 feet and 8 feet below ground surface, which is generally consistent with groundwater levels of between 5 feet and 9.5 feet reported by the previous consultant (SCG; Reference Nos. 1 and 2). As part of our work, a total of five (5) monitoring wells permitted through Orange County Environmental Health Care Agency – Environmental Health Division were installed in borings B-1 through B-5 for the purposes of determining static water levels and as a means of ongoing monitoring for the project. The completed / approved well permit application and supporting documents are included in Appendix F. As-built well diagrams are referenced in the attached Geotechnical Boring Logs (Appendix A) and included as attachments in Appendix G. Estimated groundwater elevations as of January 7th and April 4th (2022) are summarized below and on the attached Figure 2.

Table 1. Estimated Groundwater Elevations / Depths – Wells B-1 through B-5

Well #	Est. Surface Elev. (feet above NAVD88)	Est. GW Elev. (1/7/22) (feet above NAVD 88)	Est. GW Elev. (4/4/22) (feet above NAVD 88)	Change (feet)	Depth to Water (4/4/22) (feet below ground surface)
B-1	38	31.4	31.6	0.2	6.4
B-2	38	31.4	31.5	0.1	6.5
B-3	36	28.9	28.8	-0.1	7.2
B-4	35	28.4	28.6	0.2	6.4
B-5	39	30.3	30.2	-0.1	8.8

Notes: Surface Elevations estimated from Google Earth to nearest 1-foot. Groundwater Depths / Elevations rounded to nearest 0.1 feet. See Figure 2 (attached) additional notes / information.

Hydrogeology / Structure

Groundwater associated with the site / local vicinity is not a singular body but likely comprised of multiple anastomosed zones that are inferred to be locally / partially interconnected and fed by regional and local sources of recharge, including surface infiltration, storm drain leakage, and other shallow / surficial sources. An Upper Zone of “first water” occurs in predominantly silty sands of moderate permeability, and inferred to be largely unconfined / perched on top of a relatively low permeability clay / silt layer noted at 15± feet in Borings B-1 through B-5. An Intermediate Zone, centered at approximately 20-30 feet, generally occurs in silty sands and is inferred to be semi-confined / leaky. Below about 35 feet, a Lower Zone occurring in poorly-graded sands centered at approximately 35-40 feet is inferred to be confined / semi-confined (i.e., “pressurized") based on the presence of confining layers (clayey silts / silty clays) above and below. In general, the sediments controlling groundwater flow occur as sub-horizontal, semi-continuous layers / lenses that generally conduct water horizontally and/or through vertically leakage between zones.

Groundwater Considerations

In general, groundwater associated with the site is shallow and understood to be of incidental / non-beneficial use. The ongoing regional series of droughts may influence the groundwater by tending to depress it. During periods of heavy rains and particularly “wet” rainy seasons,

groundwater may be expected to rise and may mound in areas of concentrated influx. This condition may influence the use of infiltration and other stormwater controls.

The influence of the groundwater on overlying soils is likely to complicate earthwork / excavations, as the groundwater may rise into the work zone by “pumping” effects of heavy equipment, and by capillarity. Where semi-confined groundwater bodies exist, their phreatic head may be higher than their physical occurrence. This condition can exert a pressure on excavation bottoms, creating a “quick” condition, and other adverse effects. This typically requires a zone of isolation of up to several feet between the groundwater surface and the excavation to mitigate.

Shallow groundwater conditions and dewatering should be factored accordingly as part of the design and construction of the proposed development, including its effect on utility installations and general earthwork / construction. Shallow groundwater may be expected to influence utilities and related where they are close to or intersect the water table. The potential effects include flooding / groundwater intrusion, possible bottom heave, and decreased sidewall stability should be accounted for accordingly. Spoils near or below the water table are expected to be relatively wet and may require additional processing (aeration / drying) for use as engineered fill.

Specific details regarding groundwater / dewatering approaches, if needed, are beyond the scope of this report. Once the development plans are firmed up, this office should be consulted on how to proceed with formulating dewatering plans and/or other forms of ground stabilization that may be required to accommodate the proposed development and related appurtenances.

The groundwater at the site may present another hazard that could affect the property long-term in the form of wicking and capillarity, particularly during heavy seasonal rain or transient rise in groundwater. This condition may be expected to cause potential for elevated moisture / vapor intrusion risks to interior structures. Mitigations for such hazards include a robust capillary break and high-quality engineered vapor retarder system underlying a relatively thick slab assembly made of high-strength, low water cement ratio concrete, preferably with a hydrophobic additive (i.e., Xypex / Hycrete). Providing interior ventilation, appropriate exterior drainage, eliminating planters next to / proximal to buildings, and similar can also help mitigate risks associated with moisture / vapor intrusion. This is discussed in more detail in the Recommendations section of this report.

SEISMIC HAZARDS

General

Seismic hazards are typically categorized into two classes: primary and secondary. Primary seismic hazards are those directly related to a seismic event and include strong ground motion and surface rupture due to regional earthquakes and related surface displacements along fault lines. Secondary seismic hazards occur as a result of the primary hazards and include responses of the local ground to seismic shaking like liquefaction, lateral spreading, earthquake-induced landslides, etc. Additional hazards associated with coastal settings and open water bodies include tsunamis and seiche. These hazards and associated risk potentials are described below.

Surface Rupture and Strong Ground Motion

As previously described, active faults do not appear to be present across or very near the subject property. According to the California Geological Survey's web-based application (EQ Zapp), the nearest zoned active faults include the Newport-Inglewood and Whittier fault zones located approximately 5.1 miles southwest and 11.6 miles northeast of the site, respectively. The Fault Activity Map of California (CDMG Map No. 6, 2010) also indicates that the site is not located in an Earthquake Fault Zone of Required Investigations. A small area of recent activity in the Coyote Hills (Fault 433) is present in between the Norwalk Fault and Whittier Fault about 8.25 miles northeast of the site. The local area does include the Los Alamitos Fault Zone (Fault 442) about 2.2 miles southwesterly that is of Late Quaternary age, and not considered active. The Norwalk Fault (Fault 443) is located about 5.3 miles north easterly of the site, along with splay segments of unnamed faults situated about 4.25 miles south-southeast and 3.8 miles easterly of the site. Risk of onsite fault-related ground rupture associated with activity of a known active fault is considered unlikely. However, it should be noted that incidental ground cracking and other phenomena can occur due to high seismic accelerations and regional seismic activity, including effects associated with liquefaction and lateral spread– which should be expected throughout project's design life. Risks associated with seismic shaking and strong ground motion are considered moderate but can be mitigated through appropriate geotechnical / structural design and construction practices. Seismic design parameters based on ASCE 7-16 are included in Appendix H.

Liquefaction / Seismic Settlement

Liquefaction is a phenomenon in which saturated, cohesionless soils lose strength during relatively severe earthquake ground motions, with potential for adversely affecting buildings and road structures. In general, during ground motion, saturated fine sands and silty sands tend to compact and decrease in volume, resulting in an increase in pore water pressure if drainage is impeded. If the pore water pressure becomes equivalent to the overburden pressure, the effective stress becomes zero and, consequently, the cohesionless soil loses its strength and is considered to be in a liquefied state. Factors known to influence the potential for liquefaction include soil type and depth, grain-size, relative density, groundwater level, degree of saturation, and both the intensity and duration of ground shaking.

According to California Geological Survey's web-based application (EQ Zapp), the site is located in Liquefaction Hazards Zone of required investigations and our subsurface exploration, as well as that of the previous consultant (SCG; Reference Nos. 2 and 3), has verified the presence of potentially liquefiable soils to depths of 50 feet. Liquefaction analyses performed by the previous consultant based on the results of their CPT test data (in their Feasibility Study; Reference No. 2) indicated potential dynamic settlements ranging from 5.08 inches to 7.62 inches under a major seismic event. In their Preliminary Geotechnical Investigation Report (Reference No. 3), repeat liquefaction analyses were performed using different analysis methods resulting in dynamic settlements ranging from 2.80 inches to 3.29 inches, including an additional liquefaction analysis of secondary CPT test data resulting in 4.56 inches of settlement.

Site liquefaction potential was evaluated utilizing the computer program LiquefyPro developed by CivilTech Software, based on the subsurface conditions encountered in our CPT-1 and CPT-2 (Appendix B). The results of this analysis indicate potential dynamic settlements on the order of 2.90 inches to 5.27 inches during a severe seismic event. This dynamic settlement is expected to occur over a large area and would result in areal subsidence, and the potential differential settlement is expected to be significantly less over any relatively small segment. However, given the nature of the proposed development, being comprised large-scale industrial warehouse facilities, differential settlements under current conditions could be significant. Remedial grading / foundation considerations and/or in-situ ground improvement measures are recommended hereinafter to help mitigate potential adverse effects due to soil liquefaction. The results of our liquefaction analysis are included in Appendix I.

Lateral Spread

Liquefaction induced lateral spreading is defined as the finite lateral displacement of gently sloping ground as a result of pore pressure build-up or liquefaction in a shallow underlying deposit during an earthquake. Factors known to contribute to lateral spreading include gentle surface slope, free-face conditions, shallow water table, and liquefiable cohesionless soils under a major seismic event. Lateral spreading is typically confined to the displacement of large, surficial blocks of soil in the downslope direction as a result of liquefaction in a subsurface layer.

Commonly associated with lateral spreading are slumping of embankments overlying liquefiable soils, resulting in settlements, lateral displacements, and surface cracks or scarps oriented near parallel to the top of slope. Although these slumps are the result of soil liquefaction, the slope failure can better be characterized as a rotational slide or slump. On flat terrain, lateral spread is limited by lack of topographic differential. During very high ground motion events, lateral spread may occur locally and in conjunction with other more widespread liquefaction mechanisms, and is likely to focus on weak susceptible ground adjacent to channels, excavations, and other locations with topographic discontinuities.

Given the character of the area surrounding the site, and considering the ground improvements afforded by remedial grading that will be associated with the proposed development, and based on performance in prior significant earthquakes, heavy lateral spread is considered a low risk, ground cracking and displacements and localized spread, particularly adjacent to channels, etc. is considered a moderate risk. This risk is improved by ground treatment and dewatering, as well as providing a capping of engineered fill.

Tsunami

Tsunamis are long-period ocean waves generated by the displacement of ocean water resulting from submarine landslides and/or fault rupture during large earthquakes. Coastal inundation / flooding as a result of tsunami can be caused by local and/or distant sources distributed throughout the Pacific Ocean. Tsunamigenic sources include local seismic sources like the Catalina Fault, Newport-Inglewood Fault and submarine landslides associated with the Palos

Verdes Peninsula. More distant sources include subduction-related faulting around the Pacific Rim near Alaska and Chile.

Topographic and regional maps indicate that the subject site is more than 6 miles inland from the coast / Pacific Ocean. The site sits at an elevation of approximately 37± feet above sea level and is not located in an area of known tsunami hazards according to Reference No. 8. Based on the above, risk of tsunami from the known sources described above is considered low.

Seiche

Seiche is defined as a standing wave oscillation effect generated in a closed or semi-closed body of water caused by wind, tidal current, and earthquake. Seiche potential is highest in large, deep, steep-sided reservoirs or water bodies (OFR 79-8). The nearest such bodies are the ponds located at the Los Alamitos racetrack, located 0.6 miles from the site, the El Dorado Park lakes, which are located approximately 3 miles from the site, and Carbon Creek, Coyote Creek, and San Gabriel River located as near as 0.7 miles from the site. Considering the relative distances and the various topographic obstructions, the potential for Seiche effects to the project site due to off-site reservoirs, etc., is considered nil.

It is important to note that in our experience, moderate to high ground motion occurrences can cause seiche effects in pools, spas, and ponds. If pools or other water features are planned near the residence or on the property, consideration for Seiche effects should be accounted for – as nuisance sloshing as a result of earthquake forces may cause localized flooding and related damage in their immediate vicinity.

CONCLUSIONS AND RECOMMENDATIONS

From an engineering geologic standpoint, it is our opinion that the proposed development is feasible, provided that the recommendations provided herein and the City of Cypress grading requirements are incorporated in the design and implemented during construction.

Presented below are general guidelines and preliminary recommendations for incorporation into the project design and construction based on our findings, analyses, reviews and overall experience with similar conditions. These include grading / in-situ ground improvement, structure foundations, seismic design, structure setbacks, exterior flatwork, moisture / vapor retarder system for structures, soil expansion, corrosion considerations, retaining walls, asphaltic concrete pavements, storm water infiltration, utility trench backfills, site drainage, landscape irrigation and maintenance, and plan reviews, observations and testing.

Geotechnical Considerations

The major geotechnical factors that should be considered during project design include the following:

- Soil disturbance resulting from the demolition and removal of existing structures, ancillary elements, and underground utilities;
- Presence of existing fill soils to general depths of about 5 feet, locally more;

- Shallow groundwater levels at depths ranging from approximately 6 to 9 feet below existing site grades, with zones of overlying wetness that may be present;
- Static settlement due to foundation / improvement loading and dynamic settlement resulting from earthquake-induced liquefaction and shallow dry sand settlement;
- Constraints to remedial grading due to shallow groundwater levels;
- High ground accelerations / seismic shaking may be experienced at the site during its design life – therefore, the proposed structures should be designed and constructed to the prevailing standards and seismic design requirements;
- Soil exposure issues related to control of external influences on the structure – including water / moisture / vapor, vegetation (landscaping), soil chemistry (i.e. sulfate / pH issues), exposure to rain and weather.
- Typical measures to mitigate the potential adverse effects due to site liquefaction include the following, in order of decreasing effectiveness:
    - Improvement of liquefiable soils (e.g. dynamic compaction, compaction grouting, removal and replacement with approved compacted fill) would minimize the potential for dynamic settlement of the underlying soils and associated adverse effects to structures.
    - Structures supported on deep foundations (e.g. pile/grade beam system with structurally supported floor slab) would help mitigate temporary loss of foundation support due to liquefaction of the underlying site soils, although there may be some temporary loss of lateral support.
    - Structures supported on mat foundations may suffer distress in the form of differential movement due to temporary loss of foundation support during a major seismic event. However, it may be feasible to re-level mat supported structures utilizing compaction grouting / mud jacking procedures. Mat foundations typically outperform conventional footings in reducing the adverse effects associated with dynamic differential settlement.
    - Structures supported on strengthened conventional foundations (i.e., continuous and spread footings) incorporating some foundation redundancy would provide some measure of mitigation against the adverse effects due to site liquefaction. However, the structure may experience extensive distress.

Considering the type of development (i.e., warehouse / distribution center comprised of concrete tilt-up construction), shallow groundwater levels and associated constraints to remedial grading to mitigate static / dynamic structure settlements, structure sensitivity to differential settlements, and overall site area, recommendations for ground improvement to mitigate potential adverse effects due to soil liquefaction are provided herein. The in-situ ground improvement considerations recommended herein will provide some measure of mitigation and should provide

suitable levels of protection with regard to bearing failure, settlements, and limit lateral displacements, but will not eliminate the potential adverse effects to structures associated with soil liquefaction / dynamic settlement.

The following recommendations are specific to the currently proposed construction. Any deviation from the assumed loads and proposed construction is subject to review by the Project Geotechnical Engineer.

Ground Improvement Considerations

General Discussion

Considerations were given to in-situ ground improvement to mitigate potential site soil liquefaction to provide acceptable support of the planned structures, with limited remedial grading operations considered to provide support for planned pavement construction.

Preliminary assessment for in-situ ground improvement options were performed by Advanced Geosolutions, Inc. – design-build geotechnical contractor, utilizing the field findings available in the referenced Southern California Geotechnical reports and those findings obtained during our geotechnical exploration phase. Based on their assessment, viable ground improvement systems for the subject building include vibro-stone columns or deep soil mixing.

Ground improvement systems are installed under design-build contracts by specialty contractors. The required size, spacing, length, and strength of the ground improvement elements should be determined by the specialty contractor based on the proposed structural loads and desired level of improvement. Prior to submittal, our office will review the geotechnical aspects of the ground improvement program for concurrence with our findings and recommendations and provide comments / revisions as appropriate. The capacities of the ground improvement elements should be determined by the design-build contractor that installs the system; however, for planning purpose, it may be assumed that both ground improvement alternatives will extend to a depth ranging from 20 to 30 feet contingent upon desired structural performance. Based on the chosen ground improvement technique, the upper 12 to 18 inches or more of the working pad may need to be re-compacted after ground improvement installation, due to surface disturbance and potential ground heave. For this reason, we do not recommend preparation of the final pad or the construction of utilities prior to ground improvement.

Preliminary discussions of the two alternate approaches are presented in the following sections.

Stone Column

Stone columns would provide reinforcement within and to the surrounding soil via densification thereby increasing soil shear strengths and associated increased bearing capacities, decrease seismic deformations and associated structure settlements, resulting in reduced foundation costs. The construction process consists of utilizing pre-augered methods. The augered cavities are backfilled with aggregate that is compacted in place using static crowd pressure augmented with a high frequency, low amplitude, vibratory hammer. The impact hammer densifies aggregate vertically while the tamper foot forces aggregate laterally into cavity sidewalls resulting in stiff

stone column elements and stiffened matrix soil.

Stone columns can be installed at generally uniform spacings across the building footprint and to a lateral distance on the order of 15 feet beyond the structure footprints with a total coverage area of approximately 10 to 12 percent. Following installation, the planned structures may be supported by shallow conventional foundations with concrete floor slab.

Alternately, stone columns can be strategically placed at concentrated foundation load conditions, footing locations with input from the project Structural Engineer. For this alternative, conventional footings with structural floor slab would be used.

When considering stone columns, crushed/ processed concrete from demolition operations can be incorporated into the stone mix if the material meets certain criteria, and soil spoil materials generated from the drilling operations can be reused on-site to achieve planned grades and/ or dock height fill placements.

Deep Soil Mixing

Deep soil mixing (DSM) is a ground improvement technique through blending of hardening agent (usually cement grout) with the native soils. The process improves the strength and stiffness of the soil to increase bearing capacity, decrease settlement, and mitigate seismic issues. A revolving hollow shaft with mixing paddles and/or a section of auger (mixing tool) is advanced into the soil. As the mixing tool is advanced into the soil by a combination of rotation and crowd force, a grout slurry (comprised of cement and water) is injected through the hollow-stem and blended with the soil mix, creating a series of soilcrete columns. DSMs can also be amended to provide uplift capacity by introduction of tie-down rebar.

The DSM columns are typically separated from the bottom of the foundation using a minimum 6-inch layer of crushed rock or other similar “cushion material”. No direct structural connection between the DSM columns and the overlying structural element is allowed. Lateral resistance is provided by footing bottom friction at the “cushion” layer interface or passive resistance of the side walls. The target strengths of the DSM soils are usually between 100 to 300 psi at 28 days, depending on load demands. The strength is tested using ASTM D2166 “Standard Test Method for Unconfined Compressive Strength of Cohesive Soils”.

When considering deep soil mixing ground improvement, conventional footings with structural floor slab would be used. Excess soil spoil materials generated can be reused on-site to achieve planned grades and/ or dock height fill placements.

Grading / In-situ Ground Improvements

General

Presented below are recommendations to address site clearing/ preparation and remedial grading associated with the pavement/ ancillary construction and completion of structure pads. The actual design and magnitude of remedial grading and ground improvement will be refined and presented under separate reporting.

Site Clearing and Preparation

- Site preparation and grading should be made under the observation of the Project Geotechnical Engineer or Geologist, Project Engineering Geologist, and/or their field representative.
- Proper measures should be implemented during the performance of grading work to protect the work site, particularly excavated areas, from flooding, ponding and inundation due to poor or improper temporary surface drainage. During periods of impending inclement weather, temporary provisions should be made to adequately direct surface drainage, from all sources, away from and off the work site and to provide adequate pumps and sumps to handle any flow into the excavations.
- Prior to the start of the required earthwork and grading, all vegetation, surface trash, debris, and other deleterious materials should be removed from areas of planned grading and wasted away from the site. Vegetation removal should include root-balls and attendant root systems.
- Removal of existing structures should include foundations, concrete flatwork, and any remaining buried obstructions. Concrete fragments and construction debris from site demolition operations should be disposed of off-site.
- Any pipelines or conduits encountered within the zone of planned grading that are designated for abandonment should be removed from the construction area and ends cut and plugged according to the applicable Code requirements but not less than 10 feet outside the perimeter of the proposed construction area, or as property line considerations dictate. Non-reinforced concrete or clay pipes may be crushed in-place and incorporated in the fill.

Local ordinances relative to abandonment of underground utilities, if more restrictive, will supersede the above minimum requirements.

Remedial Earthwork

The following remedial grading recommendations were developed with consideration for ground improvement (Stone column or Deep Soil Improvement) to provide acceptable processing of the interface between the treatment zone and the overlying building envelop and support for the proposed structures within the development.

1. For planned building pad areas receiving new fill soils to achieve planned grades where the underlying soils were treated as described herein, remedial grading should consist, as a minimum, of an 8-inch scarification of the exposed soils and recompaction to at least 90 percent relative compaction at 2 to 3 percentage points wet of optimum moisture conditions (ASTM: D1557). Should unstable bottom conditions be experienced, additional site overexcavation and recompaction and/or bottom stabilization methods may be warranted and should be performed in accordance with our field recommendations based on the actual conditions encountered at the time of grading.

2. For planned building pad locations in areas of planned grade cuts, remedial grading should be performed, as necessary, to provide a working platform for stone column installation and deep soil mixing. During aggregate pier installation, it is anticipated that the upper approximately 12 to 18 inches of pad grade soils will become disturbed. Disturbed materials extending below proposed subgrade elevations will need to be reworked as engineered compacted fill. Additional remedial grading efforts should be performed, as necessary, based on the actual conditions exposed at the time of remedial grading efforts and to the satisfaction of the ground improvement specialist.
3. In areas extending beyond the zone of in-situ ground improvement, the existing site soils should be over-excavated to a 5 feet (minimum) depth below planned finish or existing site grades, whichever depth is greater. For ancillary foundation support, additional over-excavation should be performed, as necessary, to provide minimum of 3 feet of engineered compacted fill beneath footings, and to a lateral distance of 3 feet beyond footing edges.
4. Should undocumented fill soils outside the limits of the recommended ground improvement be exposed at depths greater than 5 feet the condition of the fills exposed should be evaluated in order to enable our office to provide additional recommendations, as appropriate.
5. As discussed in the Groundwater section of this report, the site is underlain by relatively shallow groundwater. A dewatering plan should be considered to mitigate this in construction. Even with an appropriate dewatering program, some excavation areas may experience wetness and or soft ground that may require supplemental means and methods to address, including local sumping and pumping, rock / lime / cent treatment, and top-loading.
6. Note that the groundwater at the site has likely been influenced by long-term regional drought and may be affected as a result. The effect would be expected as a sympathetic lowering. Therefore the water level may be higher in response to wet weather periods.
7. Dewatering, as may be required, should be performed in advance of the planned work, it may take considerable time to lower groundwater significantly. Note that once the ground in an excavation bottom is damaged by pumping and or turning quick, it can be difficult to regain control.
8. Dewatering may assist in ground improvement. It may be possible to integrate the dewatering with other ground improvement work planned for the site.
9. A study based dewatering program is recommended. Dewatering and disposal of developed water will likely require a permit from the State Regional Water Quality Control Board, and possibly other jurisdictions.
10. The shallow groundwater may adversely influence infiltration and other stormwater management options. An evaluation of storm drainage management and infiltration should be considered.

Excavation Procedures

Temporary excavations performed 4 feet or deeper in vertical should be shored or sloped in accordance with Cal OSHA requirements. Special construction techniques, such as slot cutting, may be utilized if excavations are greater than 4 feet vertical and site constraints preclude use of temporary slope cuts.

Excavations located along property lines and adjacent to existing structures (i.e. buildings, walls, fences, etc.) should not be permitted within two (2) feet from the existing foundations. Temporary slopes, if utilized, should be no steeper than 1.5:1 (horizontal: vertical) gradient with maximum height of slope not exceeding 20 feet. A representative of this firm should be present on-site during excavations to verify acceptability of temporary slopes. Acceptability will be dependent upon the soil conditions encountered, construction procedures and schedule.

Excavation slopes and cuts daylighting seepage, or seepage occurring at or near the base of these excavations may develop instability, raveling and piping. These should be addressed in the field by the geotechnical consultant on an actual conditions case-by-case basis.

It is imperative that grading schedules be coordinated to minimize the exposure time of these unsupported excavations. Once started, these excavations and subsequent fill operations should be maintained to completion without intervening delays imposed by avoidable circumstances. In cases where five-day workweeks comprise a normal schedule, grading should be planned to avoid exposing a grade or near-grade excavation through a non-work weekend. Where improvements may be affected by temporary instability, either on / or offsite, further restrictions such as slot cutting, extending workday-weekend schedules, and/or other requirements considered critical to serving specific circumstances may be imposed. Removal of unsuitable materials also may be affected by the above requirements.

Excavation Bottom Preparation

The acceptability of excavation bottoms should be evaluated by the Project Geotechnical Consultant prior to placing approved fill soils. Excavation bottoms should be thoroughly moisture conditioned, as necessary, to 2-3 percentage points above optimum moisture content depending on the soil type exposed, scarified to a depth of about 8 inches and compacted to minimum 90 percent of the laboratory maximum dry density (ASTM: D 1557). Should severe pumping and heaving conditions be experienced during excavation bottom preparation, it may be necessary to stabilize the bottom with a one to two feet layer of aggregate base material placed in a single lift rolled lightly with static equipment to achieve a firm and unyielding condition. The method of stabilization would be determined by a representative of our office at the time of grading and would be dependent upon the actual conditions encountered, equipment used, etc.

Fill Placement and Compaction

Fill materials should be placed in loose lifts not exceeding thickness that can be adequately and thoroughly processed and compacted by the equipment and methods utilized. These materials should be processed by blending and moisture conditioning to 2-3 percentage points above optimum moisture content, depending on the soil type, and compacted to at least 90 percent

relative compaction based on the laboratory maximum dry density assigned – to the satisfaction of the Project Geotechnical Consultant. All grading should be performed under the observation and testing of the Project Geotechnical Consultant or his representative.

Fill Materials

Fill materials should consist of clean onsite soil and imported soils and should be free of vegetation, reinforcing steel, hazardous materials, rocks greater than 6 inches in maximum dimension, and any other organic or deleterious materials.

It may be feasible to incorporate inert construction debris (concrete, brick, and asphalt) in the fill materials. The acceptability of this material for incorporation into the fill, and in particular when placed beneath the structure footprints, will be subject to the review and approval by the project environmental consultant. In general, said construction debris should be processed to 1.5" maximum sizes, and be blended with sufficient granular soils to infill void space, with resulting soil blend exhibiting less than 30 percent retained on the 3/4" sieve size. Crushed material blends should be reviewed by our office for acceptability prior to use as engineered fill.

Import soils, if required, should exhibit engineering properties similar to or better than the on-site material. The import soils should be approved by a representative of this firm, at the borrow site, at least 48 hours prior to importing.

Shrinkage and Subsidence

Based on the available field and laboratory test data obtained by the previous consultants and during the course of this geotechnical investigation, soil shrinkage factors within the upper 5 to 6 feet of existing grade are anticipated to generally vary from about 5 to 20 percent, when recompacted as structural fill. This range in soil shrinkage values most likely reflects variation in soil types relative to available maximum density test results, non-uniform fill soil conditions, and other factors. A shrinkage factor range of between 10 to 15 percent, with consideration for the upper bound limits of this range may be assumed for preliminary design purposes. Losses due to stripping of vegetation, demolition, unsuitable soil disposals, subsidence, etc. should also be accounted for in volume estimates.

Ground subsidence due to the removal / replacement of the site soils as recommended above is expected to be variable and would occur as a result of soil consolidation of the underlying natural soils due to increased loading from additional fill placements to achieve planned finish grades, as well as increased loading from excavated / recompacted soil materials. Some ground subsidence should be anticipated in areas to receive additional fills, and settlement monuments may be considered in those areas receiving new fills greater than about 4 feet above current site grades outside the limits of in-situ ground improvement.

Testing and Observations

Site preparation, grading, compaction, and backfill operations should be performed under the observation and testing of the Project Geotechnical Consultant or his representative. An adequate number of field tests should be performed to verify compliance with recommendations presented

in this report and local ordinances.

If it is determined during grading that site soils require over-excavation to greater depths for proper structural support, this additional work should be performed in accordance with the recommendations of the Project Geotechnical Consultant.

Fill materials should be compacted to the minimum 90 percent relative compaction based on the assigned laboratory maximum density determined in accordance with ASTM: D 1557. Road subbase and basecourse may require 95% relative compaction.

Foundations

Presented in the following are geotechnical criteria for design and construction of shallow conventional footings as well as concrete slab criteria for the proposed structures. Foundation design should consider anticipated post-construction settlements under both static loads and short-term seismic conditions, as appropriate.

Structure Foundations

Presented in the following are preliminary geotechnical criteria for design and construction of shallow continuous and spread footings for the support of structures with consideration for in-situ ground improvement support.

Allowable Bearing Pressure (1)	=	2,500 psf
Minimum Footing Depth (2)	=	24 inches
Minimum Footing Width	=	Per 2019 CBC
Passive Soil Pressure (3)	=	250 psf/ft., subject to 2,500 psf maximum
Friction Coefficient	=	0.4 (ultimate)
Minimum Footing reinforcement	=	For continuous footing, min. four No. 4 bars, two at top and two at bottom.

(1) The above value may be increased 250 lbs./sq.ft. for each additional foot exceeding the minimum embedment depth, subject to a maximum of 3,500 psf. Allowable bearing pressures may be increased one-third for short term loading due to wind of seismic forces.

(2) Footing depth is below lowest adjacent soil grade. Footings should be deepened, as necessary, to depths equivalent to existing adjacent foundations, where applicable.

(3) Passive soil pressure value is for level soil conditions adjacent to footings.

Ancillary Construction

For ancillary construction located outside the limits of proposed in-situ ground improvement, the following design criteria may be used:

Allowable Bearing Pressure (1)	=	1,500 psf

Minimum Footing Depth (2)	=	18 inches
Minimum Footing Width	=	Per 2019 CBC
Passive Soil Pressure (3)	=	200 psf/ft., subject to a maximum of 2,000 psf
Friction Coefficient	=	0.40 (ultimate)
Minimum Footing Reinforcement	=	For continuous footings, min. four No. 4 bars, two at top and two at bottom.

(1) Allowable bearing pressures may be increased by one-third for short term loading due to wind or seismic forces.

(2) Footing depth is below lowest adjacent soil grade and founded on engineered compacted fill.

(3) Passive soil pressure value is for level soil conditions adjacent to footings.

General Foundation Construction Comments / Guidelines

General remarks regarding the construction of conventional footings are presented below:

Footing embedment depths should be maintained throughout the life of the structure, and not compromised via erosion softening, digging, landscaping, etc.

Where foundations encroach closer than five (5) feet horizontally from the flow line of drainage swales, the footings edges should be deepened sufficiently to maintain the required embedment depth below the adjacent flow line.

Foundation details such as concrete strength, reinforcements, thickness, etc. should be established by the Project Structural Engineer, considering the loading conditions. The recommended foundation embedment, thickness and reinforcements are minimum requirements and should be established by the Project Structural Engineer. More restrictive criteria based on structural design considerations or Code requirements shall govern.

Foundation excavations should be observed and approved by the Project Geotechnical Engineer prior to the placement of reinforcement or concrete. Forming of footing excavations may be required. Excavations should be free of slough and debris and thoroughly moisture conditioned prior to placing concrete.

Excavated material from footing and utility trenches should not be placed in slab-on-grade areas unless properly compacted and tested.

Footings should be doweled to the floor slab with No. 4 bars at 18 inches on center.

Floor slabs should be underlain by a moisture vapor retarder, as recommended hereinafter, to mitigate moisture / water vapor intrusion into the structure.

Foundation details such as concrete strength, reinforcements, etc. should be established by the Project Structural Engineer. More restrictive criteria based on structural design considerations or

Code requirements shall govern.

Concrete Floor Slab-on-Grade

Presented below are preliminary geotechnical criteria which may be used for concrete floor slabs on grade.

Concrete Slab Thickness = 7 inches or per structural design

Minimum Reinforcement = Per Structural Engineer

In order to minimize migration of moisture through the concrete slab from soil sub-grade and damage to floor coverings, a moisture / water vapor retarder system should be placed beneath floor slabs in areas to be tiled, carpeted, or otherwise considered moisture sensitive. Recommendations relating to the placement and location of this moisture vapor / retarder are provided in the “Moisture / Water Vapor Retarder for Concrete Slab-on-Grade” section. The use of a hydrophobic additive, such as Xypex or Hycrete, in the concrete should be considered, given the shallow groundwater conditions.

The prepared soil sub-grade should be moisture conditioned to and maintained at about 1 to 3 percentage points wet of optimum moisture contents to a depth of 12 inches and exhibit at least 95 percent relative compaction as determined by ASTM: D1557.

Interior floor slabs should be properly designed for the construction and service loading conditions, and potential differential movements. The structural details, such as slab thickness, concrete strength, reinforcing criteria, joint spacing, etc. should be established by the Project Civil / Structural Engineer.

To minimize slab curling, a low shrinkage / low slump concrete (concrete mix with a minimum 4,500 psi compressive strength and maximum water cement ratio of 0.45) should be used for the slab construction, as determined by the Project Structural Engineer. The mix design should be verified by the Project Civil / Structural Engineer, and placement of concrete should be observed and certified by the Concrete Deputy Inspector, as required.

Settlements

Some structure movement should be expected both during and following construction, even when supported on a zone of in-situ ground improvement, due to various factors including, but not limited to:

- Surcharge loading due to dock height fill construction;
- Sequence of foundation and slab loading during construction;
- Variation in structural loads along foundation elements;
- Variation in underlying soil types with different compressibility indices and subsurface soil profile and associated primary and long-term secondary consolidation settlements; and
- Potential dynamic settlement under a major seismic event

Total static settlements for foundations would be dependent upon the actual structural loading conditions and configuration, remedial grading performed, final grades, and final design / specifications and installation of the ground improvement program. For appropriately designed and constructed structure foundations and supporting loads typical for the concrete tilt-up construction (column and wall loads on the order of 125 kips and 5 kips/lineal foot, respectively), static settlement estimates following in-situ ground improvement are estimated to be on the order of 1-inch total. Differential settlements under static conditions are not expected to exceed ½-inch over a distance of approximately 50 feet and between similarly loaded adjacent foundations.

Under exposure to short term seismic loading during a major seismic event, the site is prone to additional settlements due to soil liquefaction. Liquefaction settlements under seismic conditions are anticipated to vary with the variance in the underlying site soil conditions. For preliminary design purposes and when considering in-situ ground improvement, average dynamic settlements on the order of 1-inch total may be considered and are expected to occur over a large area. Generally, the differential settlements at level sites are expected to be small even if the total settlements are large, and for preliminary design purposes are estimated to be on the order of ½ inch over a distance of approximately 50 feet. Potential dynamic settlements under a major seismic event should be further evaluated/ substantiated by our office and the ground improvement specialist based on review of the ground improvement program selected.

Total and differential settlement potentials for ancillary construction outside the limits of in-situ ground improvement would be dependent upon foundation loads, location relative to planned grade cuts and fill placements, etc. For preliminary design purposes, total and differential static settlements on the order of 1 inch and ¾ inch over a distance of approximately 30 feet may be considered for lightly loaded ancillary footings supported on engineered compacted fill as recommended in the Grading section. Under seismic load conditions, additional potential total and differential settlements could be on the order 2-1/2-inches and 1-1/2 inches over a distance of 50 feet respectively

The above estimated potential settlements should be substantiated by our office and the ground improvement specialist based on review of final foundation plans and proposed ground improvement measures and limits.

Additional Considerations Regarding Settlement and Improvements:

1. General fill equilibrium will develop with time but is most affected by changes in soil moisture;
2. Sequence of foundation and slab loading and variation in structural loads along foundation elements during construction can impact differential movements;
3. Variation in underlying soil types with different compressibility indices, subsurface soil profiles, and subsurface drainage systems and conditions will affect primary and long-term secondary consolidation settlements;
4. Moisture changes due to climatic and non-climatic influences following construction, and associated shrink / swell of expansive soils;

5. Soil shrinkage and expansive behavior will be separate and is considered independent of settlement as a result of fill placement and associated loading from water and structures;
6. Soil shrinkage and expansion effects that are not reconciled in the design and construction will have a direct impact to top of slope improvements and associated lateral deformation;
7. Adequate and properly designed and functioning area drainage systems combined with the proper landscape design and watering programs would significantly help reduce the potential for expansion and shrinkage and long-term slope deformation; and

It should be noted that moderate slab on grade cracking may be observed within the first week after construction that are not related to soil movement. These are related to water cement ratios exceeding specifications and inappropriate finishing techniques.

Seismic Design Considerations

The site is in a zone of high seismic activity / exposure. Strong ground motion from an earthquake generated along active faults should therefore be anticipated at this site. Based on the presence of liquefiable soils to depths down of 50 feet below the site, the site qualifies as Site Class F and the proposed development should be designed and constructed to the prevailing standards regarding seismic design. Seismic design parameters based on standard procedures for Default Site Class D (ASCE 7-16) are included in Appendix H and should be reviewed for acceptability by the Project Structural Engineer based on current and applicable CBC requirements, as appropriate.

Moisture / Water Vapor Retarder for Concrete Slab-on-Grade

It should be recognized that, even with site surface and sub-drainage measures, there is potential for saturation of ground beneath concrete floor slabs due to water infiltration from irrigation, rain, and run-off or flow through the soil subgrade. The upward migration of moisture in vapor phase from soil subgrade through the slab-on-grade is inevitable. It is imperative that the Contractor properly install the recommended site drainage measures, utility trench backfill, and the moisture / water vapor retarder system in accordance with the project design requirements and specifications to mitigate potential moisture / water vapor transmission into the structures.

On this project, the presence of relatively shallow groundwater is expected to exacerbate moisture-vapor intrusion issues.

In order to reduce the potential for moisture / water vapor migration up through the slab in moisture sensitive areas, and possibly affecting floor covering, wood cabinets and other objects, a moisture / vapor retarder is recommended under concrete slab-on-grade in these areas. The recommendations provided below are based on the guidelines of the American Concrete Institute:

The moisture / water vapor retarder should consist of high strength membrane and should meet or exceed the ASTM: E-1745-97 Class A material requirements for water vapor permeance, tensile strength, and puncture resistance. The vapor retarder should consist of “Stego Wrap” (Stego Industries, LLC) or “Vapor Block” VB 15 (Americover, Inc.), or approved equal.

The installation of the moisture / water vapor retarder system requires specialized knowledge and experience and should be accomplished with the technical assistance and supervision of retarder system manufacturer and/or supplier. The membrane should be properly lapped and sealed. Membranes intersecting utility pipes, sewer lines, ducts or drains must be properly wrapped around the penetrations and sealed. All punctures and rips in the membrane should be repaired prior to placement of concrete, following manufacturer's recommendations.

The vapor retarder should be installed in general accordance with the procedures outlined in ASTM: E-1643, and in conformance with the installation procedures recommended by the manufacturer.

In addition, floor coverings (e.g., wood, tile, etc.) and other built-in features should be carefully selected with vapor transmission in mind and include proper preparation and installation in accordance with the manufacturer's recommendations.

Moisture-vapor intrusion may be further reduced at the slab level by use of consistent and low water cement ratios (ie. do not allow addition of water to concrete during the pour operations), proper finishing and curing (moist or wet cure for the first several days will reduce permittivity) and consider use of a hydrophobic additive such as Xypex or Hycrete that heal microcracks and seams and improve overall water resistance.

It should be emphasized that, even with proper moisture / water vapor installation, proper control of irrigation and landscape water adjacent to the structure is very important to minimize problems caused by moisture and water vapor intrusion and is the responsibility of the Property Manager / Owner, including the maintaining of proper site drainage as recommended hereinafter.

Planters and similar open to the ground adjacent to building areas is an invitation to moisture and other problems. These should be avoided. Concrete / paved surfaces should have clear positive drainage away from the building to an approved disposal / drain. Roof drains should include hard conveyance away from the proximity of the building.

Soil Expansion

The near surface site soils consist predominantly of sandy soils, and these soils are expected to exhibit very low soil to low expansion. During site grading, the soil expansion potential of the exposed soil blend should be verified by additional laboratory testing.

Soil Corrosion and Concrete Design

Based on the laboratory test results presented in Appendix C, sulfate exposure for concrete ranges from S0 to S1. It has been our experience that post-construction factors such as near surface soil wetting and drying cycles, and other changes with time can increase the concentrations of soluble sulfate and other derogatory salts and these conditions predispose them to being highly corrosive to both concrete and buried metals. Higher strength concrete with lower water / cement ratio will improve overall slab performance, durability, and water and corrosivity resistance.

In an abundance of caution and to account for potential future conditions, we recommend

concrete in contact with soils be designed for a minimum compressive strength of 4,500 psi and maximum w:c = 0.45.

Laboratory tests to evaluate the potential soil corrosivity to metallic installations were performed as part of the Feasibility Study by SCG (Reference No. 2). Based on these preliminary results, the soils along with any transient waters flowing through them should be considered to be highly corrosive to metals in contact with them. Attention to minimizing galvanic / chemical corrosivity (i.e., protective coatings, dielectric couplings, eliminating mixing metal types in contact or in near vicinity to each other) where in contact with soil and soil moisture can minimize these effects. An experienced corrosion consultant should be retained and their recommendations incorporated into the design if special / critical corrosive issues exist or further corrosion potential study is warranted.

Retaining Walls

Lateral Earth Pressures

The earth pressure acting on retaining walls depends primarily on the allowable wall movement, type of backfill materials, backfill slopes, wall inclination, surcharges, and hydrostatic pressure.

The following lateral earth pressures are recommended for the design of vertical cantilevered retaining walls (active case) and restrained walls (at-rest case) with no hydrostatic pressure, level backfill conditions, and no surcharge loading.

Wall Condition	Backfill Type	Equivalent Fluid Pressure
Active (Cantilever)	Sandy soils	40 pcf
At Rest (Restrained)	Sandy soils	60 pcf-

These values are applicable for compacted sand backfill placed between the wall stem and an imaginary plane at 45 degrees from the edge of wall footing.

For design purposes, walls supporting dock height fill construction should be based on at-rest earth pressures. The surcharge effect of anticipated loads on the wall backfill (e.g. traffic, construction equipment, footings, etc.) should be included in the wall design. For walls free to deflect or restrained, 33 or 50 percent, respectively, of the maximum surcharge load located within a distance equal to the height of the wall

Backfill

Retaining wall backfill should consist of select backfill comprised of free-draining granular soils exhibiting an expansion index (EI) of 30 or less. The backfill should extend within a 45-degree plane from the wall footing.

Retaining wall backfill should be mechanically compacted to minimum 90 percent of the applicable laboratory maximum density (ASTM: D1557) and performed under the observation and testing of the Project Geotechnical Consultant.

No jetting, ponding, or flooding should be permitted. No backfill should be placed against concrete

until minimum design strengths as determined by compression tests of cylinders are attained.

Retaining Wall Backdrainage

As a minimum, subdrainage system for retaining walls (excluding walls supporting dock height fill construction) should be included as part of retaining wall construction. Sub-drains should consist of 4-inch diameter, perforated Schedule 40, PVC pipe or equivalent, embedded in approximately 3 cubic feet per lineal foot of clean, ¾-inch crushed aggregate, or approved alternate. This permeable material should be enveloped in geofabric consisting of Mirafi 140 or equivalent. The pipe and trench bottom should be sloped at a gradient of 2± percent to a suitable discharge outlet. Sub drains placed behind retaining walls should be approved by the Project Geotechnical Consultant prior to backfill placement.

Should seepage be experienced through retaining walls from nuisance water (e.g., irrigation, precipitation), staining and mineral development may result and necessitate periodic maintenance / cleaning. Note that efflorescence should not be confused with permeating water effects; some efflorescence is to be expected and is considered normal.

Concrete Flatwork

Exterior Flatwork

The concrete slab design and construction details should be established by the Project Design Engineer. From a geotechnical standpoint, the minimum criteria for exterior flatwork should consider low soil expansion potential and should be in accordance with the requirements of the project structural engineer and specialty contractor / consultant. Exterior hardscape / pavement construction in areas to receive substantial new fills to achieve planned grade elevations are expected to exhibit post construction total and differential movement due to surcharge fill loading on the underlying native soils and this may occur over several months or more. Depending on the magnitude / severity of post construction movement, it may be necessary to perform periodic repairs and/or relevelling / replacement of affected hardscape. Sidewalks and walkways should be 4 inches thick (minimum) and may be placed directly on the approved compacted subgrade. To control cracking, the slab should include joints at approximately 10 feet spacing (maximum). The slab design and construction details should be established by the Project Design Engineer.

Slab Sub-Grade Pre-Saturation

Prior to concrete placement, the prepared soil sub-grade should be moisture conditioned to and maintained at about 1 to 3 percentage points wet of optimum moisture contents to a depth of 12 inches and exhibit at least 90 percent relative compaction as determined by ASTM: D1557.

Asphalt Concrete Pavement Design

For preliminary design purposes, the following asphalt concrete pavement sections are recommended for the automobile parking lot and access drive areas. These sections were computed using Caltrans Highway Design Manual method, based on the assumed Traffic Indices shown below and an assumed R-Value of 20 for the resulting blend of site soils compacted as sub-grade.

Pavement Utilization	Traffic Index	Asphaltic Concrete (in.)	Aggregate Base (in.)
Parking Areas	5.0	4”	6”
Access Drives	8.0	6”	12”

The applicability of assumed traffic indices should be verified by the Project Civil Engineer. Aggregate base should consist of crushed base (CAB or CMB) as specified in the Standard Specifications for Public Works Construction (Green Book) and be compacted to 95 percent of the maximum laboratory density determined in accordance with ASTM: D1557.

The soil sub-grade to a depth of 5 feet should be compacted to minimum 90 percent relative compaction in accordance with the recommendations under “Site Grading”. The surface of the subgrade soil supporting basecourse should be compacted to at least 95% relative compaction and exhibit a firm and unyielding surface immediately prior to placement of base material, in addition to the recommended minimum compaction. Final compaction and testing of pavement sub-grade should be performed just prior to placement of aggregate base, so that the subgrade does not deteriorate for whatever reason in the interim..

The pavement sections shown above should be considered tentative and should be verified by R-value testing of sub-grade soils at the completion of grading. Further analysis and evaluation are necessary, if the design traffic index and the sub-grade R-value are different from those used in our analyses.

Should pavement construction be performed in stages, with the initial course section to be followed by asphalt cap layer after completion of on-site construction, it should be noted that some repairs / replacement of pavement should be anticipated, particularly in areas of concentrated construction traffic and along junctions prone to water seepage to the underlying pavement subgrade soils (e.g., pavement edges adjacent to curb / gutter construction).

Concrete Pavement Design

Concrete pavement design was based on review / comparison of the following methodologies with consideration for assumed truck frequencies at the subject property.

For the PCA Simplified Design Procedure, the following parameters were considered: Axle Load Category of 2 assigned to collector streets, rural and secondary roads (relatively high axle loads for this category) and arterial streets and primary roads (relatively low axle loads for this category), respective maximum single and tandem axle load distributions of 26 kips and 44 kips, low subgrade soil support, pavements with doweled joints for load transfer, supported edges (curbs, gutters or widened lane), and a concrete Modulus of Rupture (MR) of 650 psi.

For the ACI Guideline Document - “Guide for the Design and Construction of Concrete Site Paving for Industrial and Trucking Facilities” (ACI330.2R-17), considerations were given to a Modulus of Subgrade Reaction of 150 pci, a concrete Modulus of Rupture (MR) of 650 psi, supported pavement edges, dowels in construction joints, and axle load distributions representative for major arterial over-the-road truck category.

For both methods, two-axle four tire trucks are excluded, and concrete pavement section considerations assume appropriate construction/ contraction joint spacings and joint sealing, and minimum design service period of 20 years.

Concrete Pavement Section

Based on the above considerations, the following concrete pavement sections are recommended:

Trucks Per Day (*)	Concrete Pavement Thickness (**)
50	6 inches
100	7 inches

(*) For axle load distributions representative for over-the-road truck category major arterial per day design lane.

(**) Minimum concrete compressive strength of 4,500 psi with maximum water cement ratio of 0.45 and Concrete Modulus of rupture of 650 psi.

The Project Civil / Structural Engineer should establish structural details of the pavement, such as concrete mix design, reinforcing, longitudinal and contraction joints, load transfer devices, etc. As a minimum the longitudinal and contraction joints should be based on PCA and ACI guidelines.

The above Portland Cement Concrete pavement sections are a minimum. More restrictive criteria based on civil / structural design and jurisdictional requirements shall govern.

Pavement Subgrade

The subgrade soils beyond the limits of in-situ ground improvment should be over-excavated to a depth of at least 5 feet and recompacted to minimum 90 percent relative compaction at approximately 1-3 percentage points above optimum moisture content (ASTM: D1557). The uppermost one foot of the pavement subgrade should be compacted to at least 95 percent relative compaction and exhibit firm and unyielding condition prior to placement of base material.

Subbase Considerations

The pavement subgrade soils are expected to be comprised of a blend of the near surface soils at the completion of remedial grading operations. The use of a subbase directly beneath concrete pavement construction can improve load transfer across the joints and mitigate potential for soil erosion and pumping along the joints where the soil subgrade blend may include more than 15 percent fines passing the No. 200 sieve size. Upon request, recommendations for incorporating a subbase layer beneath concrete pavement construction can be provided.

Joint Spacings and Dowels

Longitudinal and contraction joints should be based on ACI / PCA guidelines. Concrete pavement crack control joints should be spaced at a minimum of 10 feet (5 feet preferred, and not exceeding 14 feet) on center with dowels incorporated along contraction joints or other load transfer mechanisms, or as specified by the Project Civil / Structural Engineer and should include additional joints to facilitate irregular pavement boundary conditions. From a performance

standpoint, closer spacing and strategic location of control joints at returns, corners, and other areas that focus stress should be considered.

Where movement is expected in a construction or control joint, and both sides are restrained, a combination of waterstop (where transmission of water through the joint is to be avoided) and doweling may be used. Dowels installed across construction joints may consist of 1.5-inches diameter, epoxy-coated smooth dowels, 18 inches in length, placed mid-height of slab and so the dowel is centered across the joint, and spaced at 12 inches on center where joint is new to new.The dowel should be greased to limit bonding so slip may occur. In the case where movement is expected, but joining existing to new, the dowels should be placed similarly, but embedded and epoxied accordingly into the existing work, and the unbonded end that will extend into the new work greased with commercial waterproof grease.

Waterstops for control joints accommodating movement should preferably consist of the “hard” plastic type that have a crude dumbbell or similar shape and a center bulb that can accommodate the anticipated range of motion. The details of installation are highly dependent on the nature and expectations of the joint. We would be happy to provide additional input and recommendations to address particular conditions.

Where the control joint is to be restrained, such as in concrete pavement, doweling may consist of #5 or larger bar placed at slab mid height following the above criteria (18” overall dowel length, centered over joint, spaced 12” on center. Where joining new to new, the deformations of the rebar should provide adequate “bite;” where joining existing to new, the new rebar should be placed into an appropriately sized and cleaned out hole drilled into the existing work, and the dowel half embedded in the hole by epoxy.

Where control joints in concrete pavement occur where standing water or flowlines are associated (such as where pavement section joins a gutter, intake basin or similar), a waterstop incorporated into the joint should be considered to limit influx of waters into the subgrade. Consideration to thicken the edges of the slab on either side of the joint should be given where a higher degree of performance is expected.

Alternatively, the design may be per Civil / Structural Engineer design.

Factoring Site-Specific Considerations

Site specific factors such as expansive soils, variability, mediocre drainage, and related factors need to be considered. Should anticipated truck frequency and / or maximum truck axle loading conditions be different from the above assumed considerations, our office should be contacted for further evaluation and recommendations, as appropriate.

Curb / gutters should be monolithic to the extent feasible. Pavement edges in the proximity of open ground or similar may benefit from a thickened edge.

Special Note - Finishing and Curing of Concrete

Of critical importance to the long-term / lifelong behavior and performance of concrete is how it is place, finished, and preliminarily cured. Detailed studies by the Bureau of Reclamation have

shown that low water-to-cement ratio, high strength concrete – such as is recommended herein – has inherently much lower shrinkage and much higher water tightness than the mediocre concrete originally specified when properly placed and finished. For this reason, water should not be added to the mix for any reason. If a stiff mix is an issue – fluidizer and similar admixtures should be considered – to be based on join recommendations of the Project Geotechnical and Structural engineering consultants.

The Bureau's studies also showed that both early and overall strength is greatly improved and issues with cracking, crazing, and surface abrasion resistance are also improved where properly placed and finished concrete is allowed to wet or moist cure for at least 5 to 7 days. Crack control joints should be performed at the proper time and using proper methods / materials. These recommendations are considered paramount to long-term performance. Structural Review

The above recommended concrete pavement recommendations are a minimum. The structural design (e.g., concrete mix design, reinforcing, longitudinal and contraction joints, load transfer devices, etc.) by the project Civil / Structural Engineer, where more restrictive, shall govern.

Utility Trench Backfill

- Bedding material should consist of sandy material exhibiting a Sand Equivalent (S.E.) value of 30 or greater and should comply with the requirements of the controlling governing jurisdiction.
- The site soils are considered suitable for trench backfill, provided they are free of organic material and rocks over 4 inches in maximum dimension.
- To reduce potential water migration into building sub-grade through the granular bedding / shading layer and trench backfill, utility trenches should be backfilled with the onsite finer grained materials or sand-cement slurry for minimum 3 feet length at their entry points.
- Backfill of all exterior and interior trenches should be placed in thin lifts not exceeding 4 inches and mechanically compacted to achieve a relative compaction of not less than 90% based on ASTM: D1557. Care should be taken not to damage utility lines.
- Utility trenches should not be located within the influence of footings. This is defined as a zone located below the footing and a line sloping at an inclination of 1:1 (horizontal to vertical) outward from the outside edge of footings. If utility lines are located within the zone of footings, the backfill should be compacted to a minimum 95 percent relative compaction or slurry backfilled (minimum 1-1/2 sack cement - sand mix).
- Trenches greater than 4 feet in depth should be shored or sloped back as required by the local regulatory agency, the State of California Division of Industrial Safety Construction Safety Orders, and Federal OSHA requirements.

As described in the Groundwater section of this report, the site includes shallow groundwater conditions. Where trench excavations come close to or intersect the water table, the groundwater may react adversely. These effects may include bottom quickening / heaving, sidewall raveling, sloughing and calving, and decrease in sidewall stability. Where trenching will be below 5-feet,

special means and methods may be required to address and stabilize the situation. This office should be consulted for specific recommendations and support where this may occur.

Site Drainage

Of all the post-construction maintenance items – attention to site drainage is the most important. Nuisance water is the cause of most potential problems.

The Client, Landscape Architect, and Property Manager should be aware of the potential problems that may develop when drainage is altered through construction of retaining walls, paved walkways, and patios. Conditions which will lead to ground saturation must be avoided.

- All roof and surface drainage should be directed away from structures and their appurtenances and slopes to approved drainage facilities. Ponding of water should be avoided. Per the 2019 CBC, a minimum gradient of 5 percent away from structures should be maintained for graded soil areas to a distance of 10 feet or to approved drainage swales.
- The recommended drainage patterns should be established at the time of fine grading and maintained throughout the life of the structure or, if altered, should be replaced with properly designed area drain system.
- Irrigation activities at the site should be monitored and controlled to prevent over watering. Planter and lawn areas adjacent to structures should be avoided. If utilized, these should include measures to contain irrigation water and prevent moisture migration into the walls and under foundations and slabs-on-grade.
- Plants with aggressive roots should be avoided. Trees should be planted in designated tree wells that limit lateral and promote deeper root movement.
- Planters should be well drained. Root barriers should be considered to limit invasive roots from getting out and under the surrounding pavement. The incorporation of “Bio Barrier” fabric in root barriers is specifically recommended. Bio Barrier includes a hormone chemical that keeps roots away without harming the plants.
- The selection of plant palettes should be based on that which is suitable for the area and be drought tolerant. For any planned bio-swales or bio-basins, specific plant palettes may be required to address particular conditions. Our office should be consulted to provide such guidance as may be required.
- It is imperative that all new construction maintain positive drainage to suitable discharge facilities. Adequate area drainage systems should be installed in planter areas and within flatwork areas, as required.

Landscape, Irrigation, and Maintenance

General guidelines for landscape, irrigation and maintenance are shown below:

- Landscape planting should consist of appropriate drought resistant vegetation as

recommended by the Landscape Architect. Landscaping of slopes should be completed as soon as possible and properly maintained;

- The property owner is responsible for proper irrigation and for maintenance and repair of installed irrigation systems. Leaks should be repaired immediately. Sprinklers should be adjusted to provide maximum coverage with a minimum of water usage and overlap. Over-watering with consequent excessive runoff and ground saturation must be avoided;
- If automatic sprinkler systems are installed, their use should be adjusted to account for natural rainfall conditions;
- All interceptor ditches, drainage terraces, down-drains, and any other drainage devices that have been installed must be maintained and cleaned;
- If rodent activity is present, the property owner should undertake a program for the elimination of burrowing animals. This should be an ongoing program in order to promote stability; and
- Water should be directed away from constructed slopes faces. This may require the construction of berms or ditches along the top of slopes, if such devices are not in place.

Plan Review, Observations and Testing

During the design and precise grading phases, the final Precise Grading and Foundation Plans, including the design details of planned structures (e.g., location, configuration, design loads, etc.) should be provided to the Project Geotechnical Engineer to verify the applicability of the recommendations provided above and to develop additional and/or revised recommendations, as appropriate.

Precise grading, including foundation and on-site construction should be performed under the observation, documentation, and testing by the Project Geotechnical Consultant. To document actual conditions encountered, work performed, and any in-field modifications / adjustments, an As-Graded report should be prepared upon the completion of work.

CLOSURE

Our evaluation and preparation of this report are based on our experience and our knowledge of the site and were obtained in accordance with currently accepted professional engineering principles and practice in the field of geologic and geotechnical engineering and reflect our best professional judgment. We make no other warranty, either express or implied. This report is subject to supplementation and revision as new information becomes available and the designs are refined. This report is also subject to the review of the controlling jurisdiction and any comments / responses become a part hereto and the project specifications.

The recommendations provided by this firm are made on the assumption that we will be retained to perform the geotechnical onsite observation, testing and support associated with the proposed work. If another geotechnical firm is used, these and any other applicable recommendations developed by this firm are considered void. G3SoilWorks is not responsible for any implementation of recommendations or grading / construction that it did not have an adequate opportunity to observe, test, comment on, and document. Similarly, should unanticipated conditions be encountered or alterations to the current design be made, this office should be given the opportunity and retainage to evaluate and provide revisions / updates as warranted.

We appreciate the opportunity of being of service to you on this project. Should you have any questions or need additional information, please contact the undersigned.

Sincerely,

G3SoilWorks, Inc.

By: _____
Daniel J. Morikawa, P.E.
Director of Engineering

REGISTERED PROFESSIONAL ENGINEER
DANIEL J. MORIKAWA
GE 2726
GEOTECHNICAL
STATE OF CALIFORNIA

By: _____
Steve E. Strickler, P.E., G.E.
CEO / Principal Geotechnical Engineer

REGISTERED PROFESSIONAL ENGINEER
STEVEN E. STRICKLER
GE 2265
GEOTECHNICAL
STATE OF CALIFORNIA

By: _____
Erik C. Haaker, P.G., C.E.G.
Senior Engineering Geologist

CERTIFIED ENGINEERING GEOLOGIST
ERIK C. HAAKER
No. 2708
EXP. 2/29/23
STATE OF CALIFORNIA

Attachments: List of Selected References

Figure 1 – Site Location Map
Figure 2 – Boring / CPT Location & Groundwater Map
Figure 3 – Geologic Map
Figure 4 – Fault Activity Map

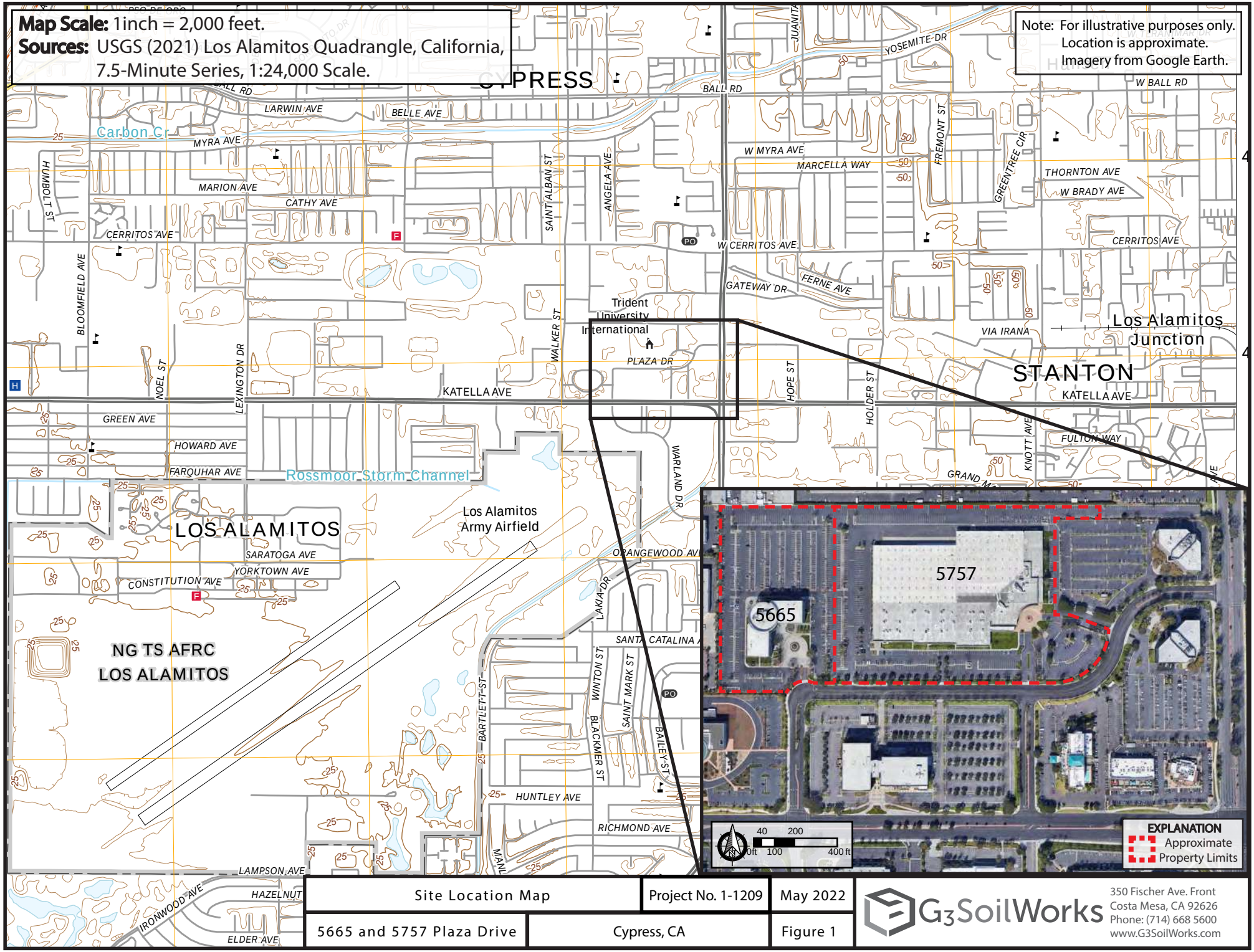
Appendix A – Geotechnical Boring Logs
Appendix B – CPT Results
Appendix C – Laboratory Test Procedures and Results
Appendix D – Reference No. 2 Excerpts
Appendix E – Reference No. 3 Excerpts
Appendix F – Well Permitting Documents
Appendix G – As-Built Well Diagrams
Appendix H – ASCE 7-16 Seismic Design Criteria
Appendix I – Liquefaction Analyses

LIST OF SELECTED REFERENCES

1. PBLA Engineering, Inc., Concept Grading Plan – Buildings 1 & 2, Goodman Commerce Center – Cypress, WO 128-7, Sheet 1 of 2, Dated August 3, 2021.
2. Southern California Geotechnical, Geotechnical Feasibility Study, Proposed Commercial / Industrial Development, 5665 and 5757 Plaza Drive, Cypress, California for Goodman, dated June 7, 2021, Project No. 21G150-1R.
3. Southern California Geotechnical, Geotechnical Investigation, Proposed Commercial / Industrial Development, 5757 Plaza Drive, Cypress, California for Goodman, dated September 29, 2021, Project No. 21G201-2.
4. Barrows, A.G., 1970, A Review of the Geology and Earthquake History of the Newport-Inglewood Structural Zone, Southern California, California Division of Mines and Geology Special Report 114.
5. Trifunac, M.D., 2003, Nonlinear soil response as a natural passive isolation mechanism> Paper II. The 1933, Long Beach, California earthquake. Soil Dynamics and Earthquake Engineering 23, 549-562.
6. ARCADIS, “Second Quarter 2014 – Annual Status Report Submittal”, 5100 Katella Avenue, Los Alamitos, Orange County, California, dated August 12, 2014.
7. California Division of Mines and Geology, Seismic Hazard Zone Report for the Los Alamitos 7.5-minute Quadrangle, Los Angeles County and Orange County, California”, Seismic Hazard Zone Report 019, 1998.
8. California Emergency Management Agency, et al., Tsunami inundation Map for Emergency Planning, Los Alamitos Quadrangle, State of California, Orange County, dated March 15, 2009.

Map Scale: 1inch = 2,000 feet.
Sources: USGS (2021) Los Alamitos Quadrangle, California, 7.5-Minute Series, 1:24,000 Scale.

Note: For illustrative purposes only.
Location is approximate.
Imagery from Google Earth.



Site Location Map		Project No. 1-1209	May 2022
5665 and 5757 Plaza Drive	Cypress, CA		Figure 1

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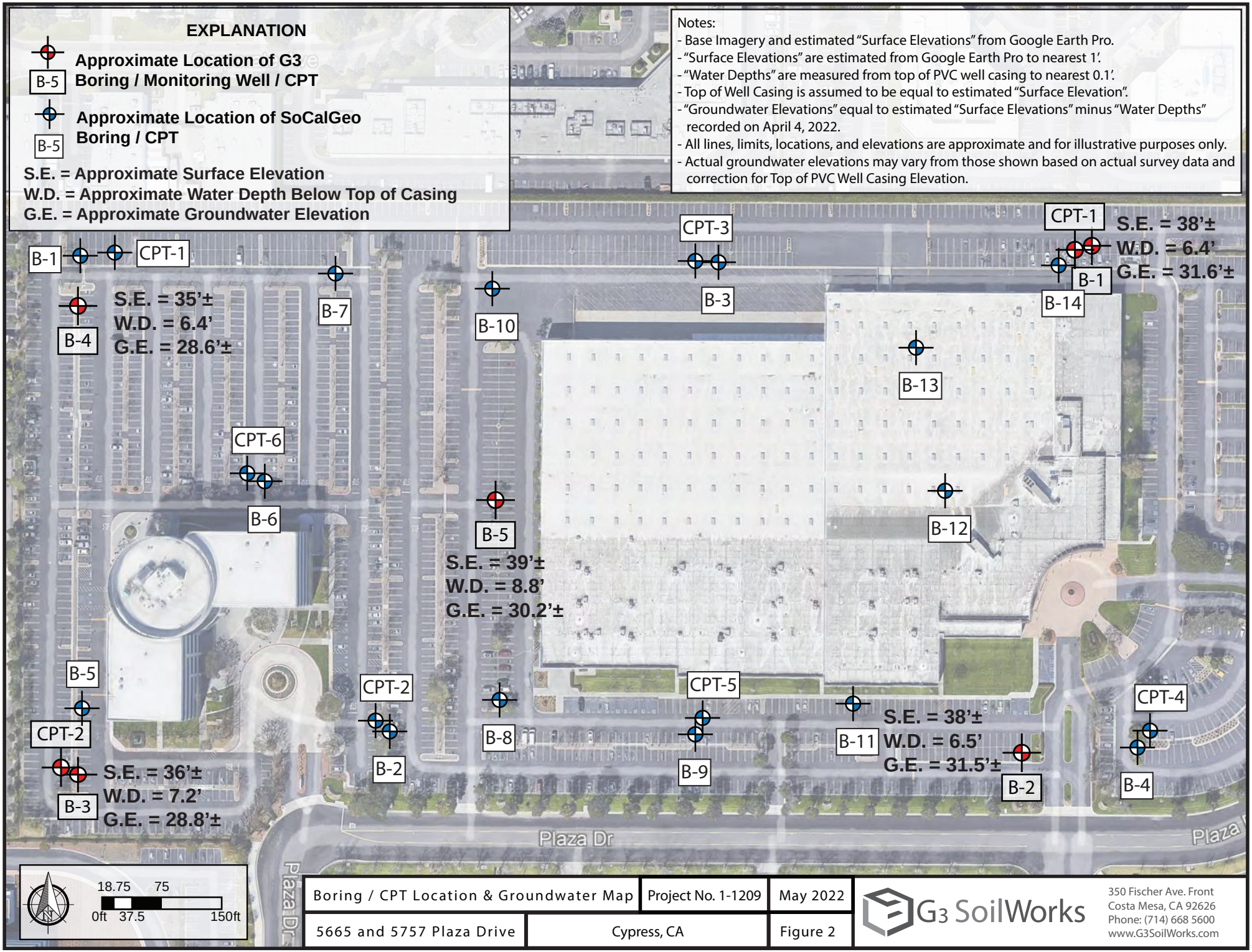
EXPLANATION
Approximate Location of G3 Boring / Monitoring Well / CPT
B-5
Approximate Location of SoCalGeo Boring / CPT
B-5
S.E. = Approximate Surface Elevation
W.D. = Approximate Water Depth Below Top of Casing
G.E. = Approximate Groundwater Elevation
Notes:
- Base Imagery and estimated "Surface Elevations" from Google Earth Pro.
- "Surface Elevations" are estimated from Google Earth Pro to nearest 1'.
- "Water Depths" are measured from top of PVC well casing to nearest 0.1'.
- Top of Well Casing is assumed to be equal to estimated "Surface Elevation".
- "Groundwater Elevations" equal to estimated "Surface Elevations" minus "Water Depths" recorded on April 4, 2022.
- All lines, limits, locations, and elevations are approximate and for illustrative purposes only.
- Actual groundwater elevations may vary from those shown based on actual survey data and correction for Top of PVC Well Casing Elevation.
B-1
CPT-1
B-4
S.E. = 35'±
W.D. = 6.4'
G.E. = 28.6'±
B-7
B-10
CPT-3
B-3
CPT-1
S.E. = 38'±
W.D. = 6.4'
G.E. = 31.6'±
B-1
B-14
B-13
CPT-6
B-6
B-5
S.E. = 39'±
W.D. = 8.8'
G.E. = 30.2'±
B-12
B-5
CPT-2
S.E. = 36'±
W.D. = 7.2'
G.E. = 28.8'±
B-3
CPT-2
B-2
B-8
CPT-5
B-9
B-11
S.E. = 38'±
W.D. = 6.5'
G.E. = 31.5'±
B-2
CPT-4
B-4
Plaza Dr
Plaza Dr
Plaza
18.75
75
0ft
37.5
150ft
Boring / CPT Location & Groundwater Map
Project No. 1-1209
May 2022
5665 and 5757 Plaza Drive
Cypress, CA
Figure 2
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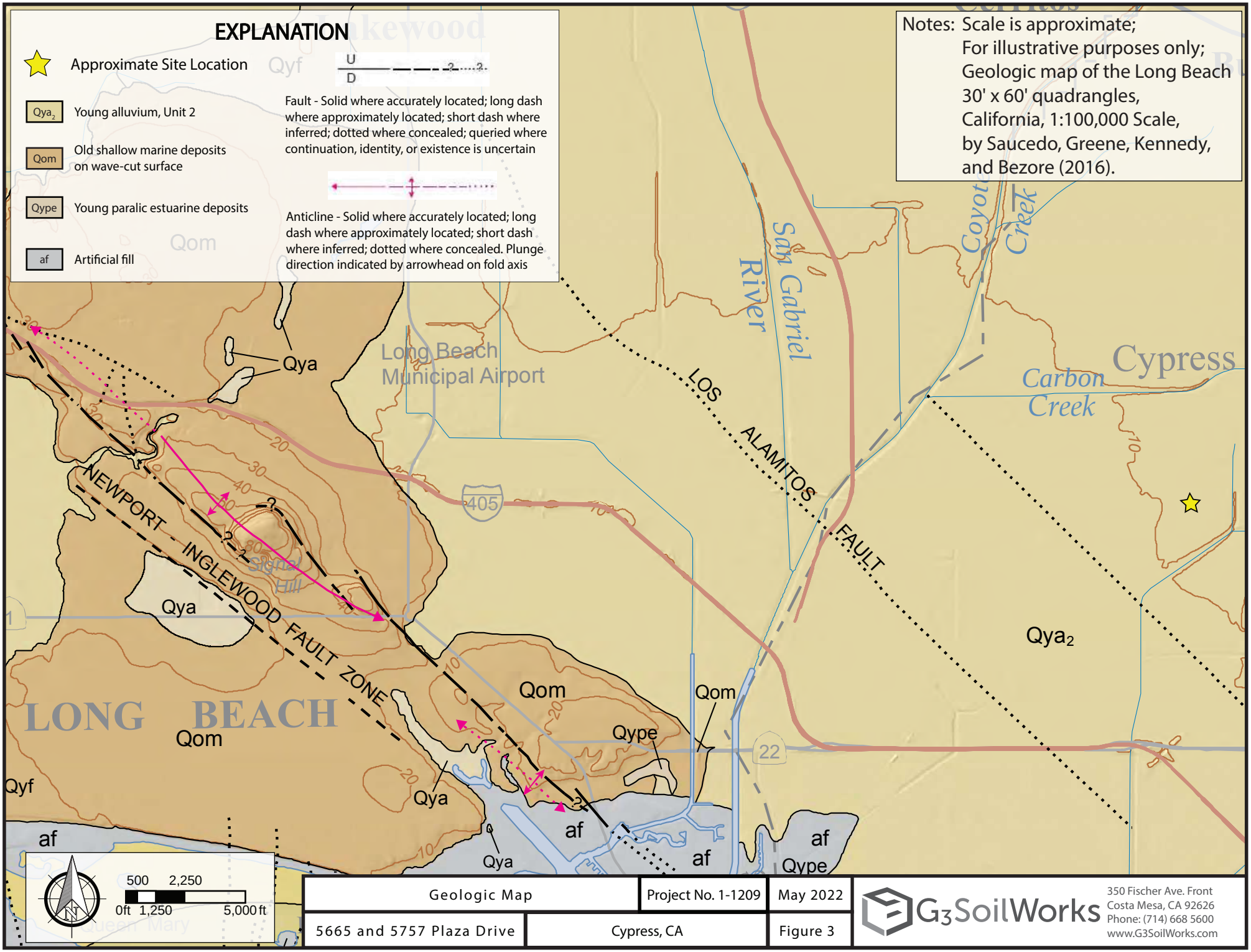
EXPLANATION
Approximate Site Location
Qya2 Young alluvium, Unit 2
Qom Old shallow marine deposits on wave-cut surface
Qype Young paralic estuarine deposits
af Artificial fill
U
D
Fault - Solid where accurately located; long dash where approximately located; short dash where inferred; dotted where concealed; queried where continuation, identity, or existence is uncertain
Anticline - Solid where accurately located; long dash where approximately located; short dash where inferred; dotted where concealed. Plunge direction indicated by arrowhead on fold axis
Notes: Scale is approximate;
For illustrative purposes only;
Geologic map of the Long Beach 30' x 60' quadrangles, California, 1:100,000 Scale, by Saucedo, Greene, Kennedy, and Bezore (2016).
San Gabriel River
Coyote Creek
Carbon Creek
Long Beach Municipal Airport
LOS ALAMITOS FAULT
NEWPORT - INGLEWOOD FAULT ZONE
Signal Hill
LONG BEACH
Cypress
Qya
Qya2
Qom
Qype
Qyf
af
405
22
N
500 2,250
0ft 1,250 5,000 ft
Geologic Map
Project No. 1-1209
May 2022
5665 and 5757 Plaza Drive
Cypress, CA
Figure 3
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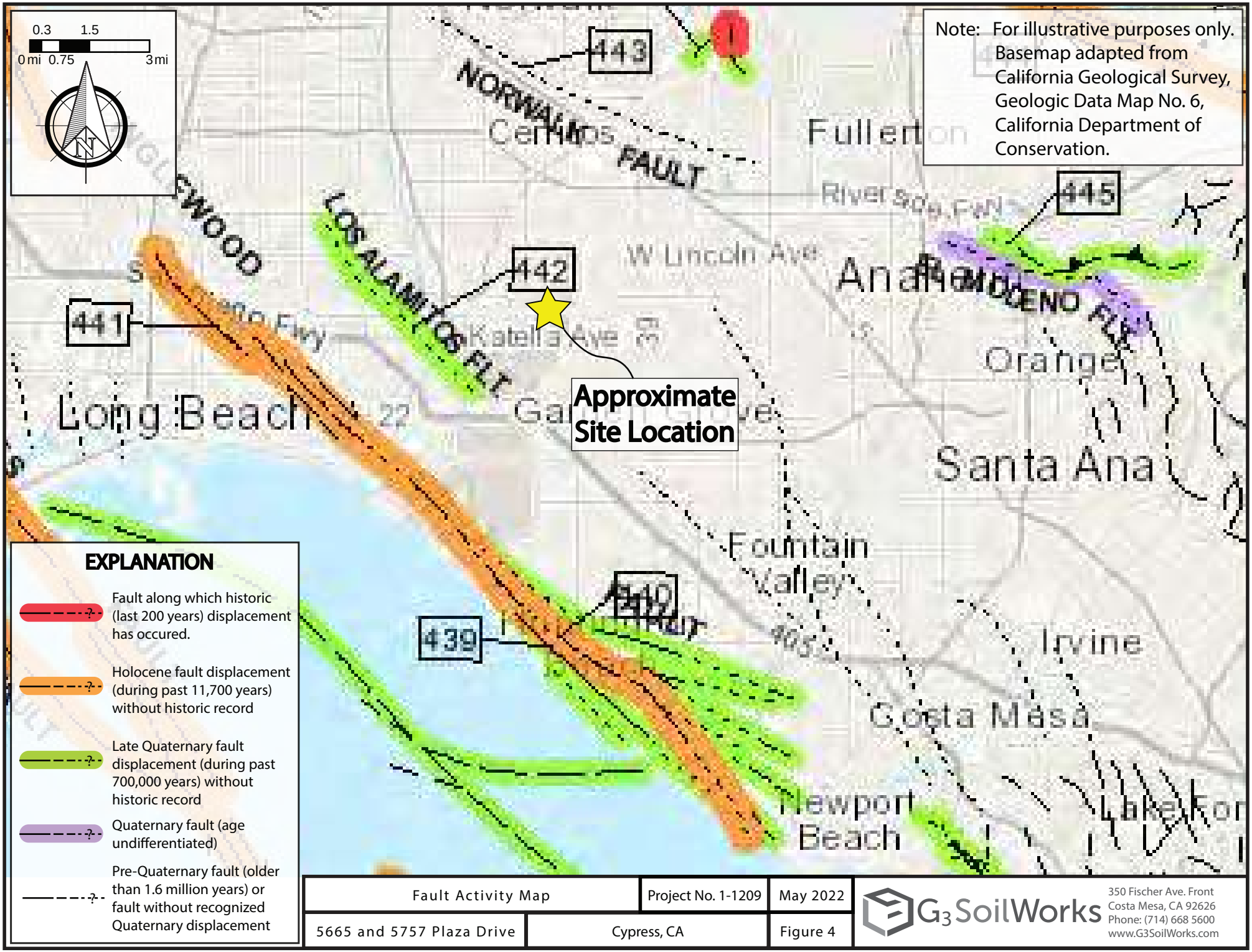

Fault Activity Map		Project No. 1-1209	May 2022
5665 and 5757 Plaza Drive	Cypress, CA		Figure 4

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APPENDIX A

GEOTECHNICAL BORING LOGS

GEOTECHNICAL BORING LOG

PROJECT NO.	1-1209	PROJECT NAME	Goodman		
DATE STARTED	1/4/22	GROUND ELEV.(FT)	38'	BORING DESIG.	B-1
DATE FINISHED	1/4/22	GW DEPTH (FT)	7.0	LOGGED BY	G3
DRILLER	M&R Drilling	DRIVE WT.	140 lb.	NOTE	
TYPE OF DRILL RIG	8" hollow-stem CME-55	DROP	30"		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
				SM/ML	@ 0-3": Asphalt Pavement @3"- 5": Crush Miscellaneous Base (CMB) **Artificial Fill (af)** @ 6": Silty SAND / Sandy SILT, dark gray, moist, medium dense to dense, fine-grained, some mica.			
5		R	27	SM	**Quaternary Alluvium (Qal)** @5': Silty SAND, grayish brown, very moist, medium dense, fine-grained, some mica.	24.7	91.1	
10		R	26	SM	@ 10': Silty SAND, dark gray to grayish brown, moist to very moist, medium dense, fine-grained, some mica.	23.5	103.3	
15		R	16	CL/ML	@ 15': Silty CLAY / Clayey SILT, dark gray, very moist, stiff, low apparent plasticity, calcereous.	30.9	89.0	
20		R	25	SM	@ 20': Silty SAND, light brown, very moist, medium dense, some mica.	23.9	101.3	
25		R	26	SM	@ 25': Silty SAND, grayish brown, wet, medium dense.	24.8		
30		R	16	ML	@ 30': Clayey SILT with sand, grayish brown, moist to very moist, stiff, low apparent plasticity, contains caliche, some mica.	27.6	97.1	
					Notes: Total Depth = 31.5'; Groundwater encountered at 7'; Installed 2" diameter PVC Monitoring Well; Refer to Detail A for As-Built Well Diagram.			

SAMPLE TYPES:
- R RING (DRIVE) SAMPLE
- S SPT (SPLIT SPOON) SAMPLE
- B BULK SAMPLE

Water Seepage
Groundwater
DS - Direct Shear
GS - Grain Size Analysis
EI - Expansion Index
CONS - Consolidation

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PN: 1-1209

REPORT DATE:

GEOTECHNICAL BORING LOG

PROJECT NO.	1-1209	PROJECT NAME	Goodman		
DATE STARTED	1/4/22	GROUND ELEV.(FT)	38'	BORING DESIG.	B-2
DATE FINISHED	1/4/22	GW DEPTH (FT)	8.0	LOGGED BY	G3
DRILLER	M&R Drilling	DRIVE WT.	140 lb.	NOTE	
TYPE OF DRILL RIG	8" hollow-stem CME-55	DROP	30"		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
					@ 0 to 3": Asphalt Pavement @ 3 to 5": Crush Miscellaneous Base (CMB)			
		BULK		SM	**Artificial Fill (af)** @ 5"-5': Sandy SILT, dark grayish brown, moist, very low apparent plasticity, predominantly fine-grained, micaceous.			
5		R	23	SM	**Quaternary Alluvium (Qal)** @ 5': Silty SAND, grayish brown, moist, medium dense, some mica.	23.0	99.4	
10		R	10	ML	@ 10': Silty SAND, dark gray, wet, loose, very fine-grained, micaceous.	27.9	93.4	
15		R	15	CL	@ 15': Silty CLAY with Sand, dark grayish brown, wet, stiff, low apparent plastisity, sparse coarse sand.	36.8	87.1	
20		R	28	ML	@ 20': Sandy SILT with trace clay, olive brown, wet, very stiff, low to very low apparent plasticity, micaceous.	37.7	85.7	
25			20		@ 25': No sample recovered.			
		R	17	ML	@ 27': Clayey SILT with sand, gray, wet, stiff, some mica.	27.2		
30		R	33	ML	@ 30': Clayey SILT with Sand, dark grayish brown, wet, very stiff, low to medium apparent plasticity, calcareous.			
					Notes: Total Depth = 31.5'; Groundwater encountered at 7.5'; Installed 2" diameter PVC Monitoring Well; Refer to Detail B for As-Built Well Diagram.			

SAMPLE TYPES:
- R RING (DRIVE) SAMPLE
- S SPT (SPLIT SPOON) SAMPLE
- B BULK SAMPLE

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PN: 1-1209

REPORT DATE:

GEOTECHNICAL BORING LOG

PROJECT NO.	1-1209	PROJECT NAME	Goodman		
DATE STARTED	1/3/22	GROUND ELEV.(FT)	36'	BORING DESIG.	B-3
DATE FINISHED	1/3/22	GW DEPTH (FT)	7.5	LOGGED BY	G3
DRILLER	M&R Drilling	DRIVE WT.	140 lb.	NOTE	
TYPE OF DRILL RIG	8" hollow-stem CME-55	DROP	30"		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
					@ 0 to3": Asphalt Pavement @ 3 to 5": Crushed Miscellenious Base (CMB) **Artificial Fill (af)**			
		B		SM/ML	@2.5': Silty SAND / Sandy SILT, brown, slightly moist to moist, contains some gravel.	11.0		
5		B		SP	**Quaternary Alluvium (Qal)** @5': Poorly-Graded SAND, gray, slightly moist, fine- to medium-grained.	3.3		
		R	6	SM	@ 7.5': Silty SAND, olive gray, wet, very loose to loose, fine-grained.	26.4		
10		R	7	SM	@10': Silty SAND, dark grayish brown, wet, medium dense.	21.4	98.4	
		SPT	4	CL	@ 12.5': Silty CLAY, dark gray, very moist, soft to firm, sparse mica.	26.1		
15		R	7	ML	@15': Sandy SILT w/ Clay, dark grayish brown, moist, firm, low apparent plasticity, sparse mica.	23.3	99.1	
		SPT	2	ML/SM	@17,5': Sandy SILT / Silty SAND with Clay, light olive brown, very moist, very loose, predominantly fine-grained, sparse mica.	26.7		
20		R	15	SM/ML	@ 20': Silty SAND / Sandy SILT, light olive brown, moist, loose to medium dense, fine-grained, sparse mica.	21.2	102.5	
		SPT	6	ML	@ 22.5': Sandy SILT, olive brown, wet, firm, fine-grained, highly micaceous.	30.2		
25		R	9	ML	@ 25': Sandy SILT, dark gray, wet, firm, very low plasticity, highly micaceous.	31.4	91.2	
		SPT	1	ML	@ 27.5': Clayey SILT, dark gray, very moist, very soft, low apparent plasticity, some mica.	26.4		
30		R	9	ML	@30': Clayey SILT, dark gray, moist, firm, low apparent plasticity..	24.7	98.6	
		SPT	5	CL	@32.5': Silty CLAY with sand, grayish brown, wet, soft, low apparent plasticity, trace mica.	37.0		
35		R	24	SP	@35': Poorly-Graded SAND, gray to light gray, wet, medium dense, fine- to medium-grained, some mica.	17.1	105.2	
		SPT	8	SP	@ 37.5': Poorly-Graded SAND, light gray to gray, wet, loose, predominantly fine-grained with some coarse sand.	27.6		

SAMPLE TYPES:
- R RING (DRIVE) SAMPLE
- S SPT (SPLIT SPOON) SAMPLE
- B BULK SAMPLE

Water Seepage
Groundwater
DS - Direct Shear
GS - Grain Size Analysis
EI - Expansion Index
CONS - Consolidation

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PN: 1-1209

REPORT DATE:

GEOTECHNICAL BORING LOG

PROJECT NO.	1-1209	PROJECT NAME	Goodman		
DATE STARTED	1/3/22	GROUND ELEV.(FT)	36'	BORING DESIG.	B-3
DATE FINISHED	1/3/22	GW DEPTH (FT)	7.5	LOGGED BY	G3
DRILLER	M&R Drilling	DRIVE WT.	140 lb.	NOTE	
TYPE OF DRILL RIG	8" hollow-stem CME-55	DROP	30"		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
		R	7		@ 40': No sample recovery.			
		SPT	17	SM	@ 42.5': Silty SAND, dark grayish brown, medium dense, micaceous.	24.2		
45		R	25	SM/ML	@ 45': Silty SAND / Sandy SILT, dark gray, wet, medium dense, non-plastic, fine-grained, highly micaceous.	21.5	102.1	
		*SPT	15	ML	@47.5': Sandy SILT with Clay, dark gray, wet, medium dense, low apparent plasticity.	23.0		
50		R	23	ML	@50': Silty SAND, dark gray, wet, medium dense, predominantly fine-grained, micaceous.	23.8	99.4	

Notes:
Total Depth = 51.5';
Groundwater encountered at: 7.5';
Installed 2" diameter PVC Monitoring Well;
Refer to Detail C for As-Built Well Diagram.

SAMPLE TYPES:
R RING (DRIVE) SAMPLE
S SPT (SPLIT SPOON) SAMPLE
B BULK SAMPLE

Water Seepage
Groundwater
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PN: 1-1209 REPORT DATE:

GEOTECHNICAL BORING LOG

PROJECT NO.	1-1209	PROJECT NAME	Goodman		
DATE STARTED	1/3/22	GROUND ELEV.(FT)	35'	BORING DESIG.	B-4
DATE FINISHED	1/3/22	GW DEPTH (FT)	7.0	LOGGED BY	G3
DRILLER	M&R Drilling	DRIVE WT.	140 lb.	NOTE	
TYPE OF DRILL RIG	8" hollow-stem CME-55	DROP	30"		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
					@ 0 to 3": Asphalt Pavement @ 3" to 5": Crush Miscellaneous Base (CMB) **Artificial Fill (af)**			
		B		SM	@ 2.5': Silty SAND with gravel, dark grayish brown.			
5		R	11	SM	**Quaternary Alluvium (Qal)** @ 5': Silty SAND; grayish brown, moist to very moist, loose, predominantly fine-grained, some mica.	23.5	95.1	
10		R	24	SM	@ 10': Silty SAND, dark gray, very moist to wet, medium dense, micaceous.	29.0	96.9	
15		R	10	ML	@ 15': Clayey SILT with Sand, dark gray, moist to very moist, firm, low apparent plasticity, sparse mica.	27.1	98.6	
20		R	21	SM	@20': Silty SAND, dark grayish brown, moist to very moist, medium dense, predominantly fine-grained.	20.0	108.3	
25		R	17	SM	@25': Silty SAND, dark grayish brown, wet, medium dense, predominantly fine-grained.	24.7	97.4	
30		SPT	30		@ 30': No sample recovered.			

Notes:
Total Depth = 31.5';
Groundwater encountered at 7';
Installed 2" diameter PVC Monitoring Well;
Refer to Detail B for As-Built Well Diagram.

SAMPLE TYPES:
R RING (DRIVE) SAMPLE
S SPT (SPLIT SPOON) SAMPLE
B BULK SAMPLE

Water Seepage
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PN: 1-1209

REPORT DATE:

GEOTECHNICAL BORING LOG

PROJECT NO.	1-1209	PROJECT NAME	Goodman		
DATE STARTED	1/4/22	GROUND ELEV.(FT)	40'	BORING DESIG.	B-5
DATE FINISHED	1/4/22	GW DEPTH (FT)	8.0	LOGGED BY	G3
DRILLER	M&R Drilling	DRIVE WT.	140 lb.	NOTE	
TYPE OF DRILL RIG	8" hollow-stem CME-55	DROP	30"		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
					@ 0 to 3": Asphalt Pavement @ 3" to 5": Crushed Miscellaneous Base (CMB)			
		BULK		SM	**Artificial Fill (af)** @ 0.5-5': Sandy SILT, dark grayish brown, moist, predominantly fine-grained.			
5		R	36	ML	**Quaternary Alluvium (Qal)** @ 5': Silty SAND / Sandy SILT w/ Clay, light brown, moist, medium dense / very stiff, apprently very low plasticity / non-plastic, predominantly fine-grained, micaceous.	14.3	102.5	
10		R	44	SM	@ 10': Silty SAND, light grayish brown, moist, medium dense, micaceous.	20.6	104.6	
15		R	16	CL	@15': Silty CLAY with Sand, dark brown, moist to very moist, stiff, some mica, calcareous.	30.5	96.4	
20		R	23	SM	@20': Silty SAND, grayish brown, wet, medium dense, some mica.	20.2	104.1	
25		R	35	ML	@25': Sandy SILT w/ Clay, dark gray, wet, very stiff, low apparent plasticity, micaceous.	30.4	96.6	
30		R	30	CL	@30': Silty CLAY, dark gray, moist, very stiff, low apparent plasticity.	28.9	97.4	
					Notes: Total Depth = 31.5'; Groundwater encountered at 8'; Installed 2" diameter PVC Monitoring Well; Refer to Detail A for As-Built Well Diagram.			

SAMPLE TYPES:
- R RING (DRIVE) SAMPLE
- S SPT (SPLIT SPOON) SAMPLE
- B BULK SAMPLE

Water Seepage
Groundwater
DS - Direct Shear
GS - Grain Size Analysis
EI - Expansion Index
CONS - Consolidation

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PN: 1-1209

REPORT DATE:

APPENDIX B

CPT RESULTS

SUMMARY

OF

CONE PENETRATION TEST DATA

Project:

5665 & 5757 Plaza Drive
Cypress, CA
December 13, 2021

Prepared for:

Ms. Dana Mariscal
G3SoilWorks, Inc.
350 Fischer Avenue, Front Unit
Costa Mesa, CA 92626
Office (714) 668-5600 / Fax (714) 754-0198

Prepared by:

KEHOE TESTING & ENGINEERING
5415 Industrial Drive
Huntington Beach, CA 92649-1518
Office (714) 901-7270 / Fax (714) 901-7289
www.kehoetesting.com

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2. **SUMMARY OF FIELD WORK**
3. **FIELD EQUIPMENT & PROCEDURES**
4. **CONE PENETRATION TEST DATA & INTERPRETATION**

APPENDIX

- CPT Plots
- CPT Classification/Soil Behavior Chart
- CPT Data Files (sent via email)

SUMMARY
OF
CONE PENETRATION TEST DATA

1. INTRODUCTION

This report presents the results of a Cone Penetration Test (CPT) program carried out for the project located at 5665 & 5757 Plaza Drive in Cypress, California. The work was performed by Kehoe Testing & Engineering (KTE) on December 13, 2021. The scope of work was performed as directed by G3SoilWorks, Inc. personnel.

2. SUMMARY OF FIELD WORK

The fieldwork consisted of performing CPT soundings at two locations to determine the soil lithology. A summary is provided in **TABLE 2.1**.

LOCATION	DEPTH OF CPT (ft)	COMMENTS/NOTES:
CPT-1	50	
CPT-2	50	

TABLE 2.1 - Summary of CPT Soundings

3. FIELD EQUIPMENT & PROCEDURES

The CPT soundings were carried out by **KTE** using an integrated electronic cone system manufactured by Vertek. The CPT soundings were performed in accordance with ASTM standards (D5778). The cone penetrometers were pushed using a 30-ton CPT rig. The cone used during the program was a 15 cm^2 cone with a cone net area ratio of 0.83. The following parameters were recorded at approximately 2.5 cm depth intervals:

- Cone Resistance (qc)
- Sleeve Friction (fs)
- Dynamic Pore Pressure (u)
- Inclination
- Penetration Speed

The above parameters were recorded and viewed in real time using a laptop computer. Data is stored at the KTE office for up to 2 years for future analysis and reference. A complete set of baseline readings was taken prior to each sounding to determine temperature shifts and any zero load offsets. Monitoring base line readings ensures that the cone electronics are operating properly.

4. CONE PENETRATION TEST DATA & INTERPRETATION

The Cone Penetration Test data is presented in graphical form in the attached Appendix. These plots were generated using the CPeT-IT program. Penetration depths are referenced to ground surface. The soil behavior type on the CPT plots is derived from the attached CPT SBT plot (Robertson, "Interpretation of Cone Penetration Test…", 2009) and presents major soil lithologic changes. The stratigraphic interpretation is based on relationships between cone resistance (qc), sleeve friction (fs), and penetration pore pressure (u). The friction ratio (Rf), which is sleeve friction divided by cone resistance, is a calculated parameter that is used along with cone resistance to infer soil behavior type. Generally, cohesive soils (clays) have high friction ratios, low cone resistance and generate excess pore water pressures. Cohesionless soils (sands) have lower friction ratios, high cone bearing and generate little (or negative) excess pore water pressures.

The CPT data files have also been provided. These files can be imported in CPeT-IT (software by GeoLogismiki) and other programs to calculate various geotechnical parameters.

It should be noted that it is not always possible to clearly identify a soil type based on qc, fs and u. In these situations, experience, judgement and an assessment of the pore pressure data should be used to infer the soil behavior type.

If you have any questions regarding this information, please do not hesitate to call our office at (714) 901-7270.

Sincerely,

KEHOE TESTING & ENGINEERING

Steven P. Kehoe
President

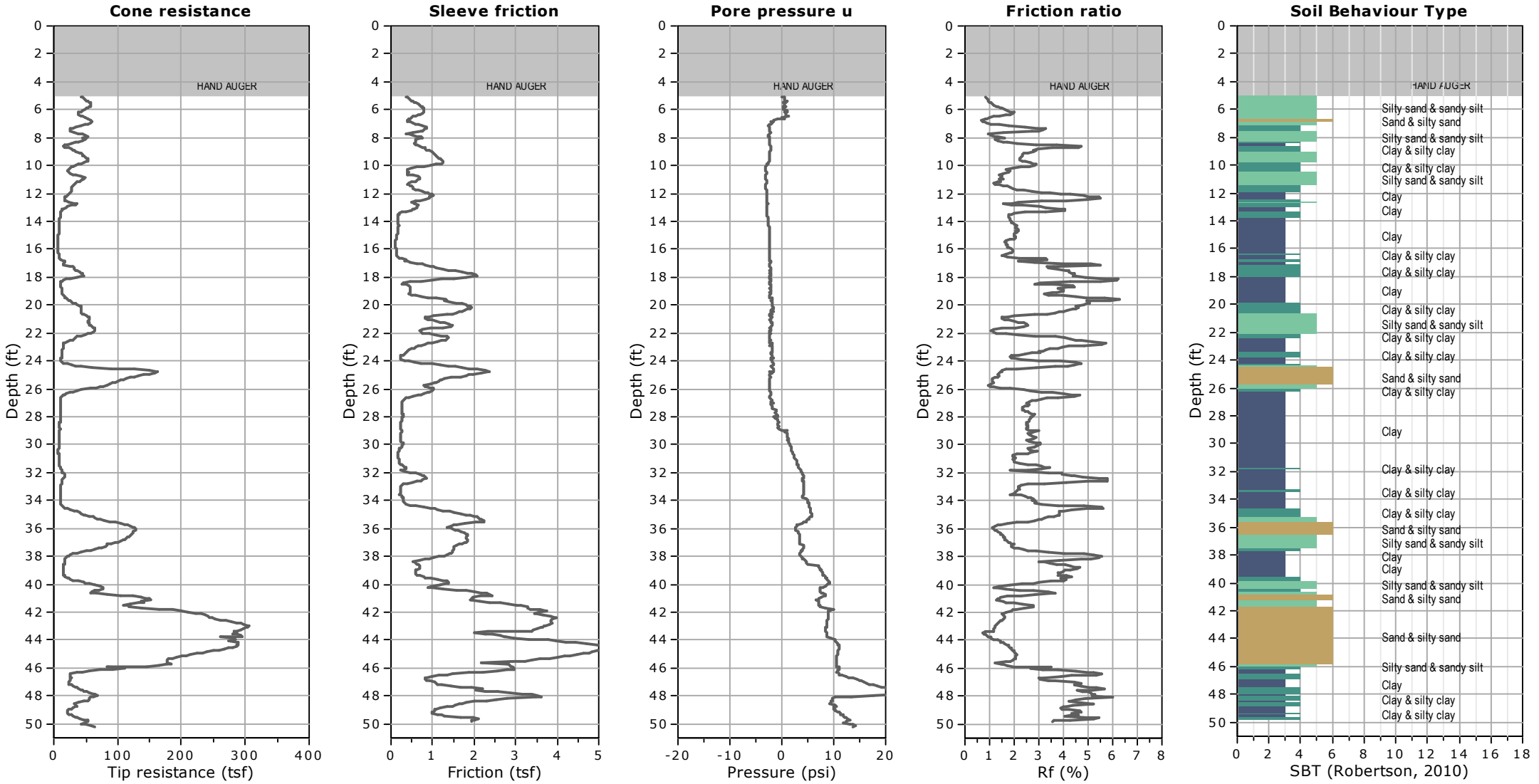
12/15/21-kk-3657

APPENDIX

Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: G3SoilWorks
Location: 5665 & 5757 Plaza Dr, Cypress, CA

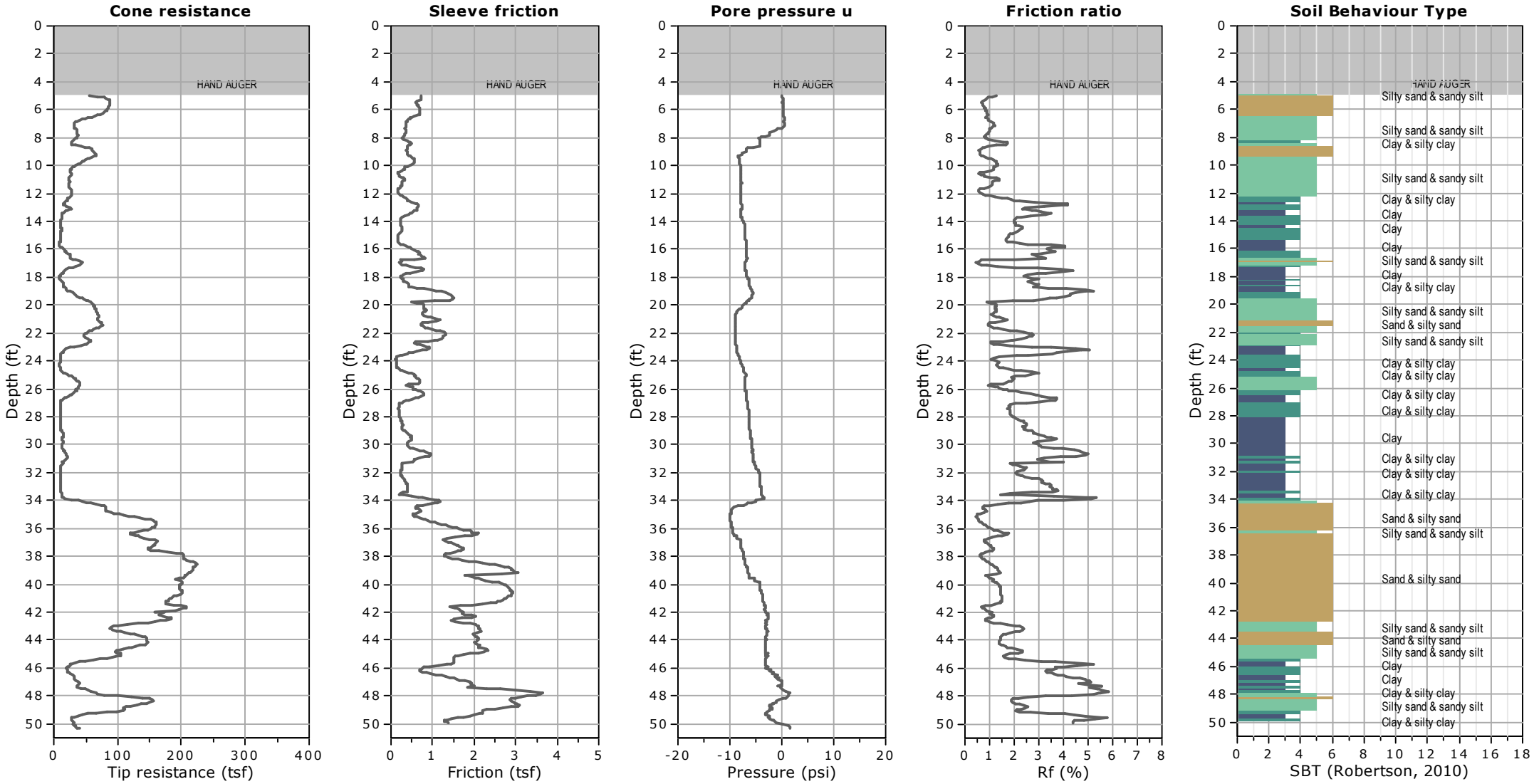
CPT-1
Total depth: 50.20 ft, Date: 12/13/2021



Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: G3SoilWorks
Location: 5665 & 5757 Plaza Dr, Cypress, CA

CPT-2
Total depth: 50.34 ft, Date: 12/13/2021



Kehoe Testing and Engineering
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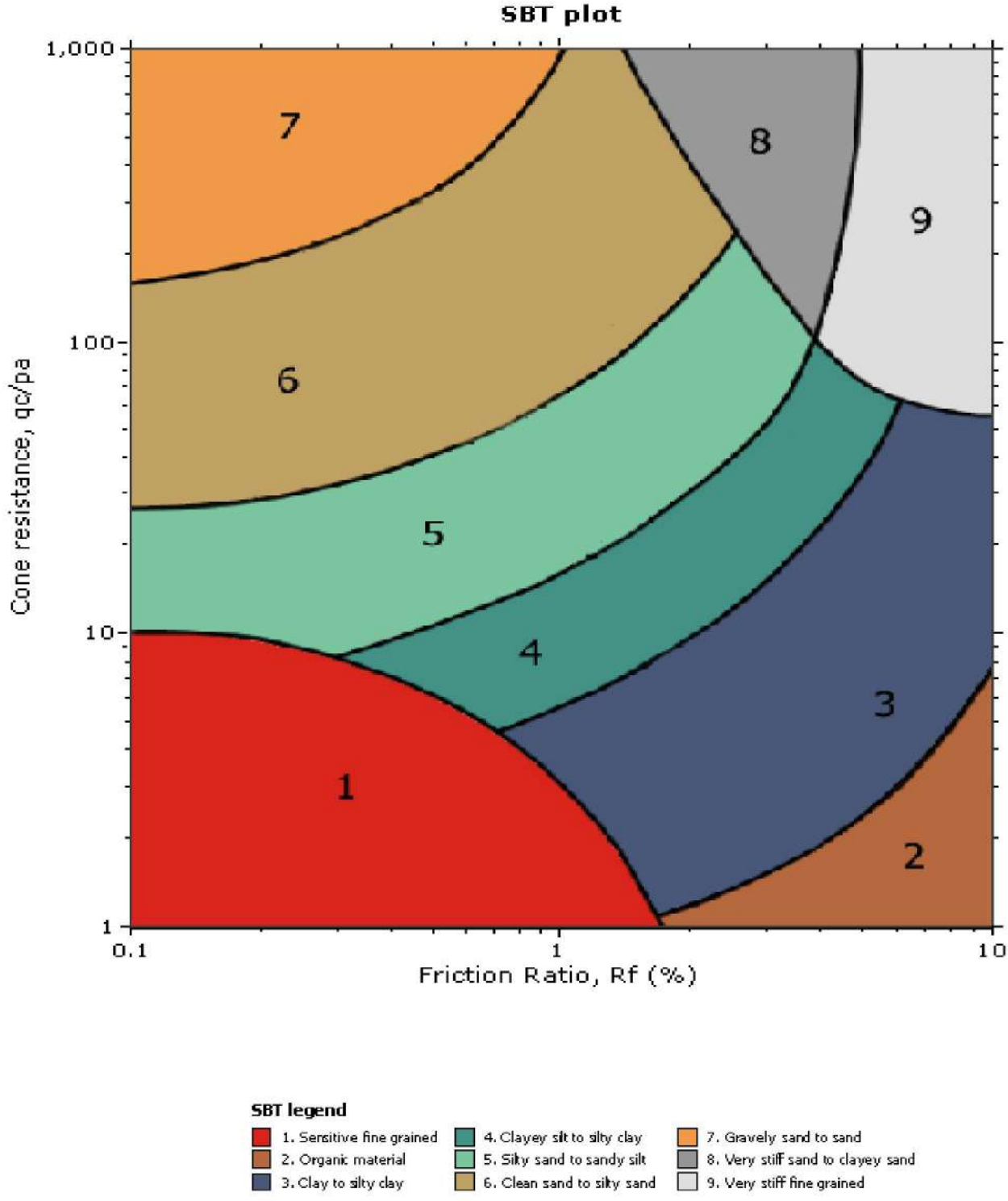


APPENDIX C

LABORATORY TEST PROCEDURES AND RESULTS

LABORATORY TEST PROCEDURES AND RESULTS

The samples obtained during the field investigation were transported to the laboratory for testing and analysis. The results of tests performed on selected samples and the test procedures are summarized below.

Dry Density and Moisture Content

Field dry density and moisture contents of undisturbed soils samples retained in 2 3/8–inch inside diameter by one-inch height rings were determined, and moisture test results were obtained for the small bulk samples. Dry density and moisture content testing were performed in accordance with ASTM D2937 and ASTM D2216, respectively. The test results are posted on the Geotechnical Boring Logs in Appendix A.

Maximum Dry Density and Optimum Moisture Content

Maximum dry density and optimum moisture content test was performed on the submitted bulk soil samples in accordance with ASTM: D 1557. The results are shown below:

Sample Identification	Maximum Dry Density (pcf)	Optimum Moisture Content (%)
B-2 @ 0-5’	107.0	11.5
B-5 @ 0-5’	118.0	13.0

Expansion Index

Representative soil samples were tested for expansion potential following the ASTM D4829 Test Procedure. Test results are presented below.

Sample Identification	Expansion Index	Expansion Potential (UBC 18-1-B)
B-2 @ 0-5’	0	Very Low
B-5 @ 0-5’	14	Very Low

Sulfate Content

Selected soil samples were tested for soluble sulfate content in accordance with the Hach method. The test results are shown below.

Sample Identification	Water Soluble Sulfate in Soil (ppm)	Sulfate Exposure (ACI 318-08, Table 4.2.1)
B-2 @ 0-5’	120	S0
B-5 @ 0-5’	300	S1

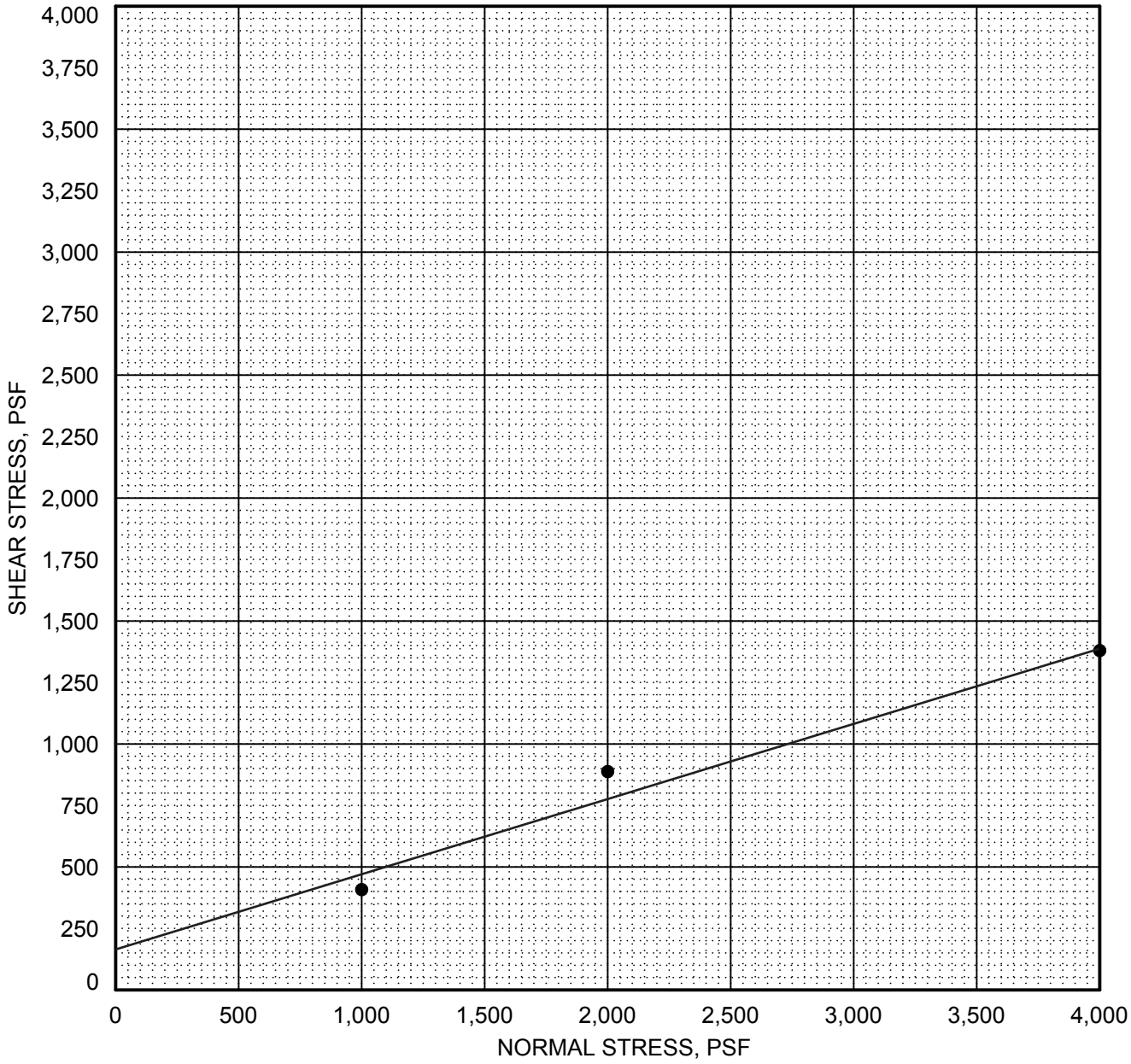
Direct Shear

Direct shear tests were performed on representative, relatively undisturbed soil samples with a direct shear machine of the strain-controlled type in which the rate of strain is 0.01 inches per minute. The soil specimens were soaked in a confined state prior to shearing and was sheared under varied normal loads ranging from 1.0 ksf to 4.0 ksf. The test results are plotted on Figures S-1 through S-7.

Consolidation

Consolidation tests was performed on sample identified as B-1 @ 15 feet, B-3 @ 15 feet, B-3 @ 30 feet, B-4 @ 10 feet, and B-4 @ 20 feet. The test specimen was initially loaded to 0.2 tons per square foot and soaked during the test. Progressive loading was then applied to a maximum of 3.2 tons per square foot. Loading was then reduced to determine rebound characteristics. The consolidation test is presented on Figure C-1 through C-5.

DIRECT SHEAR TEST
Undisturbed



5665 and 5757 Plaza Drive, Cypress	COHESION	162	psf.
	FRICTION ANGLE	17.0	degrees

symbol	boring	depth (ft.)	symbol	boring	depth (ft.)
●	B-1	15.0			

FIGURE S-1
DIRECT SHEAR TEST

PN: 1-1209 REPORT DATE: 05/04/22

G3SoilWorks
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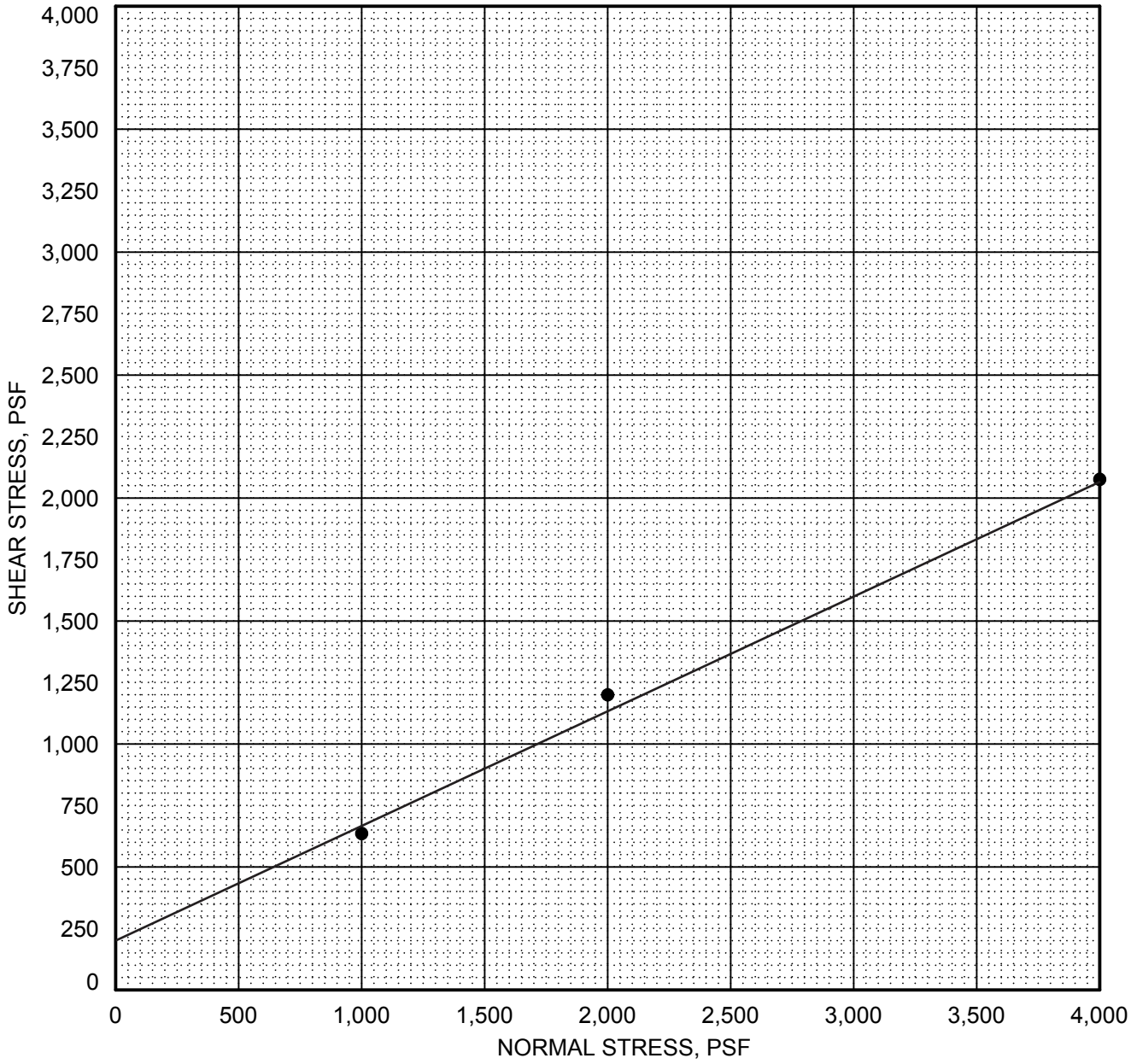
Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

FIG. S-1

DIRECT SHEAR TEST
Undisturbed



5665 and 5757 Plaza Drive, Cypress	COHESION	198	psf.
	FRICTION ANGLE	25.0	degrees

symbol	boring	depth (ft.)	symbol	boring	depth (ft.)
●	B-2	20.0			

FIGURE S-2
DIRECT SHEAR TEST

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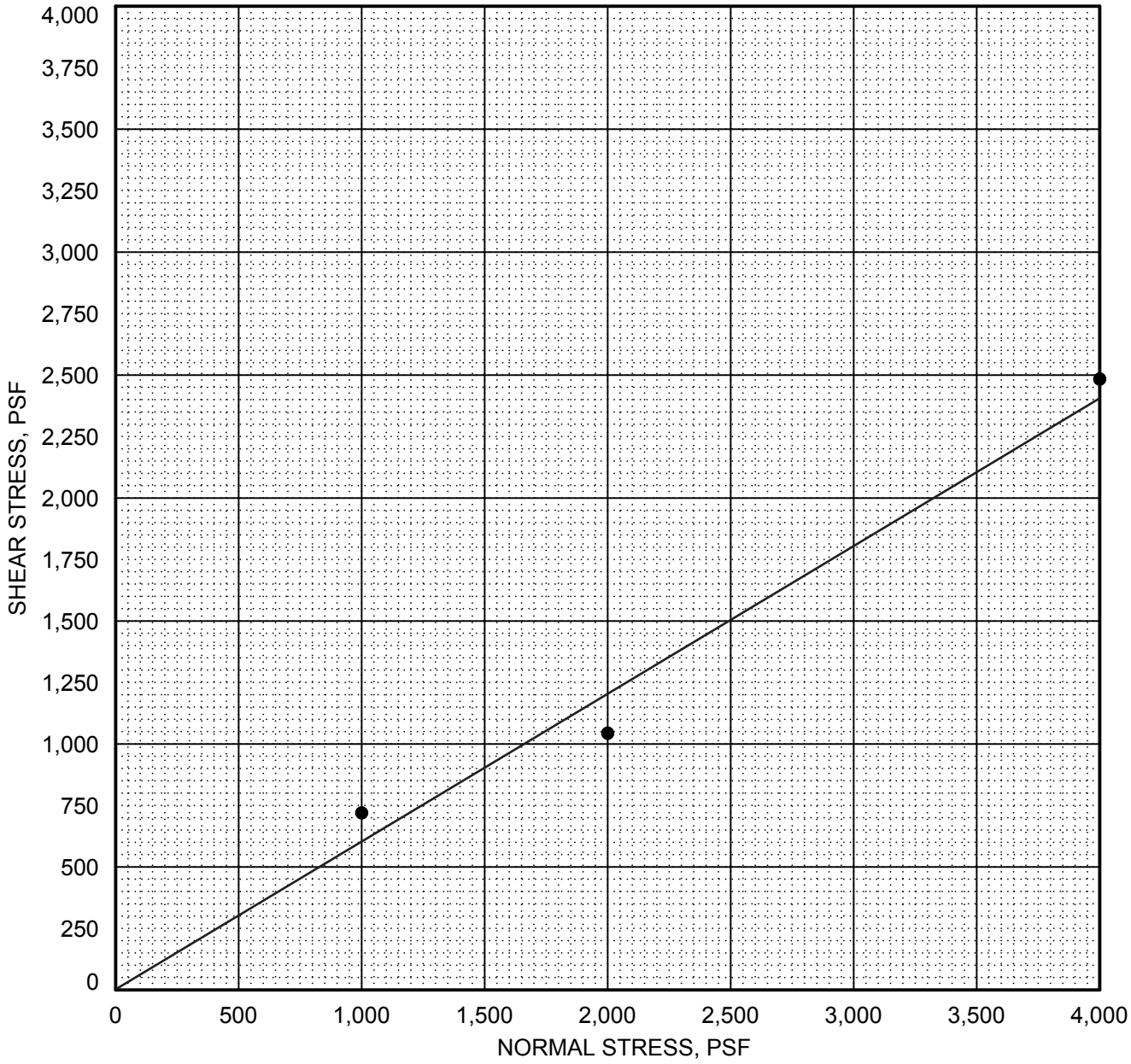
DIRECT SHEAR TEST
Undisturbed



5665 and 5757 Plaza Drive, Cypress	COHESION	0	psf.
	FRICTION ANGLE	31.0	degrees

symbol	boring	depth (ft.)	symbol	boring	depth (ft.)
●	B-3	15.0			

FIGURE S-3
DIRECT SHEAR TEST

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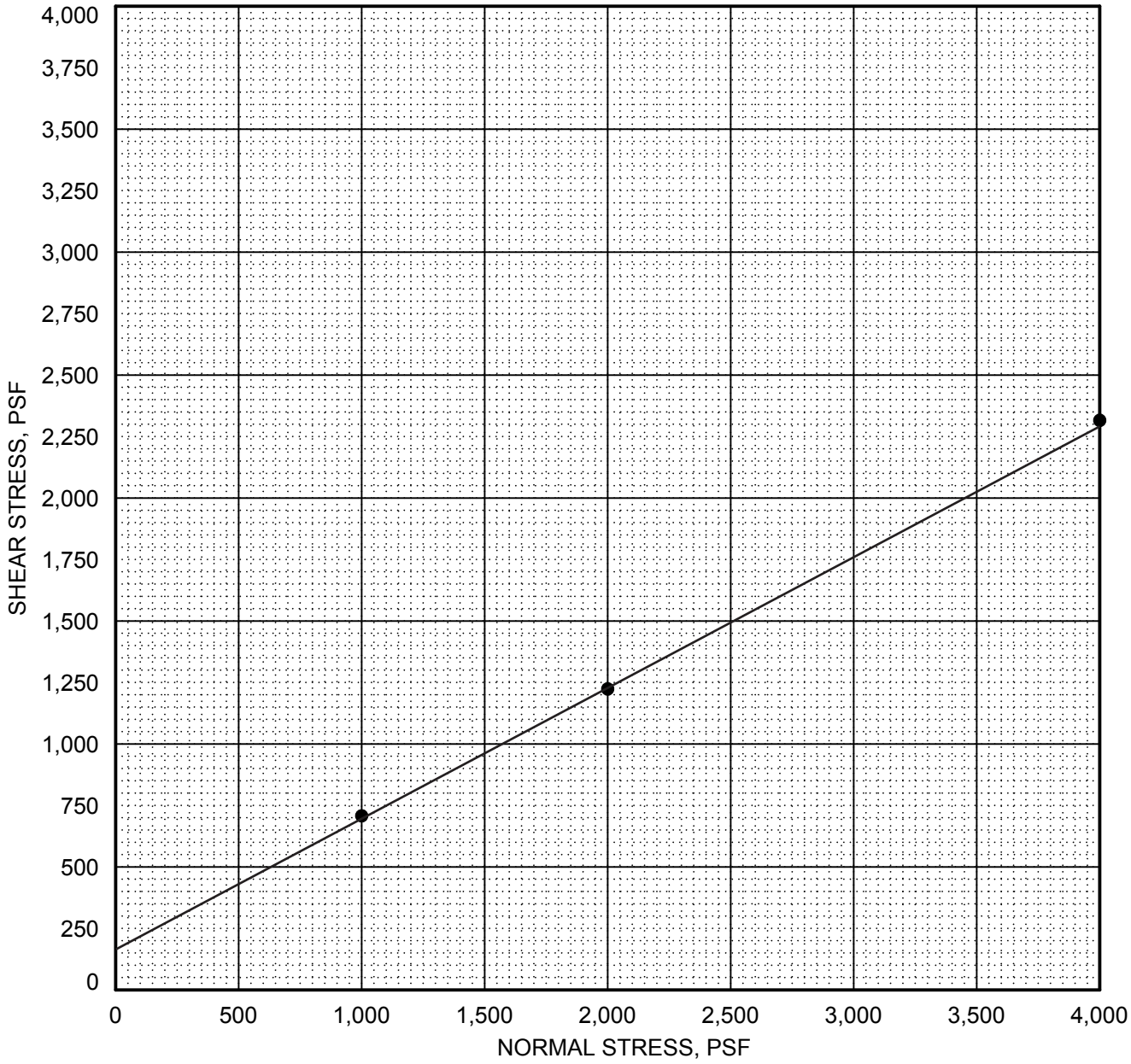
DIRECT SHEAR TEST
Undisturbed



5665 and 5757 Plaza Drive, Cypress	COHESION	162	psf.
	FRICTION ANGLE	28.0	degrees

symbol	boring	depth (ft.)	symbol	boring	depth (ft.)
●	B-3	30.0			

FIGURE S-4
DIRECT SHEAR TEST

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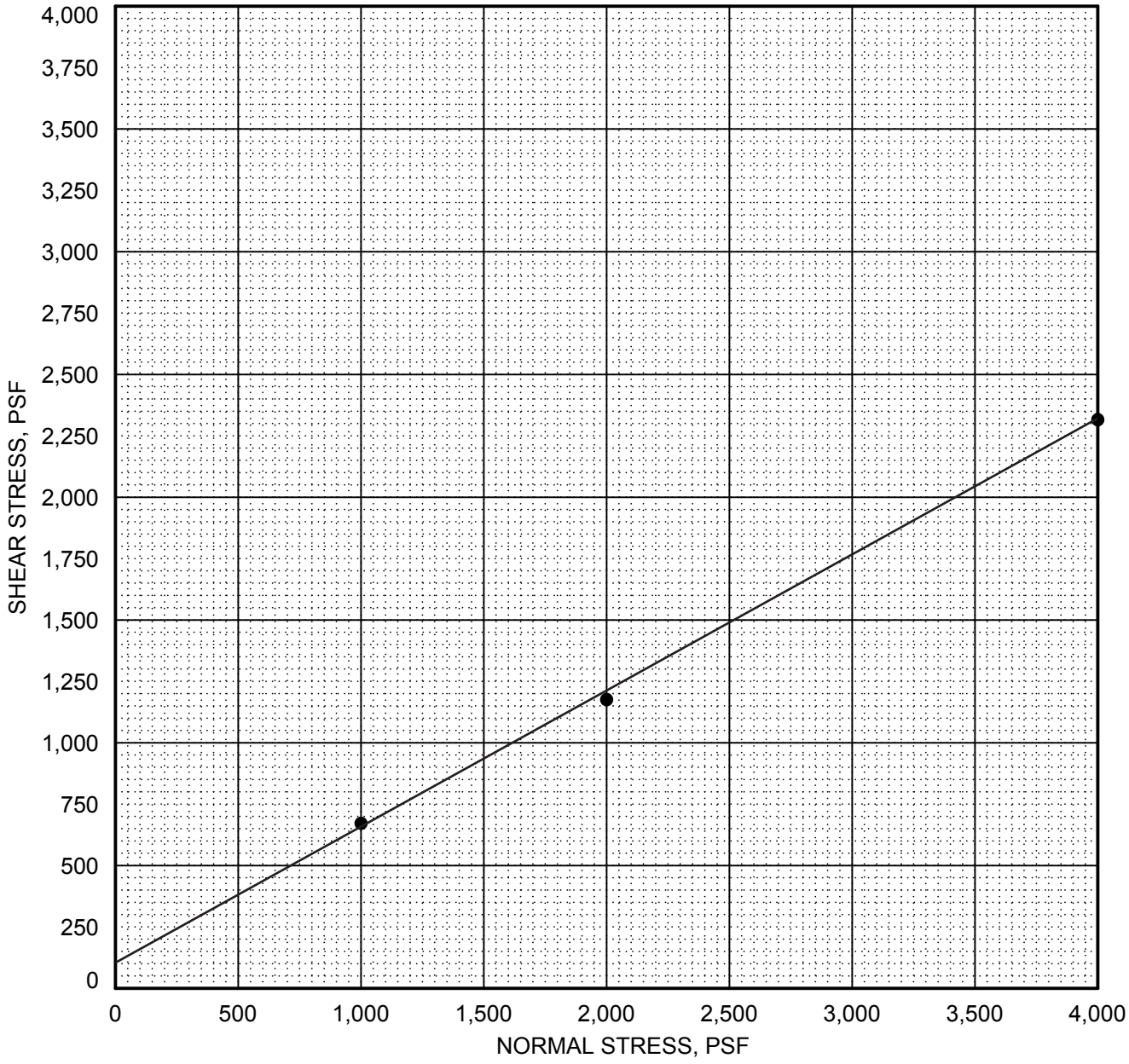
DIRECT SHEAR TEST
Undisturbed



5665 and 5757 Plaza Drive, Cypress	COHESION	102	psf.
	FRICTION ANGLE	29.0	degrees

symbol	boring	depth (ft.)	symbol	boring	depth (ft.)
●	B-4	10.0			

FIGURE S-5
DIRECT SHEAR TEST

PN: 1-1209 REPORT DATE: 05/04/22

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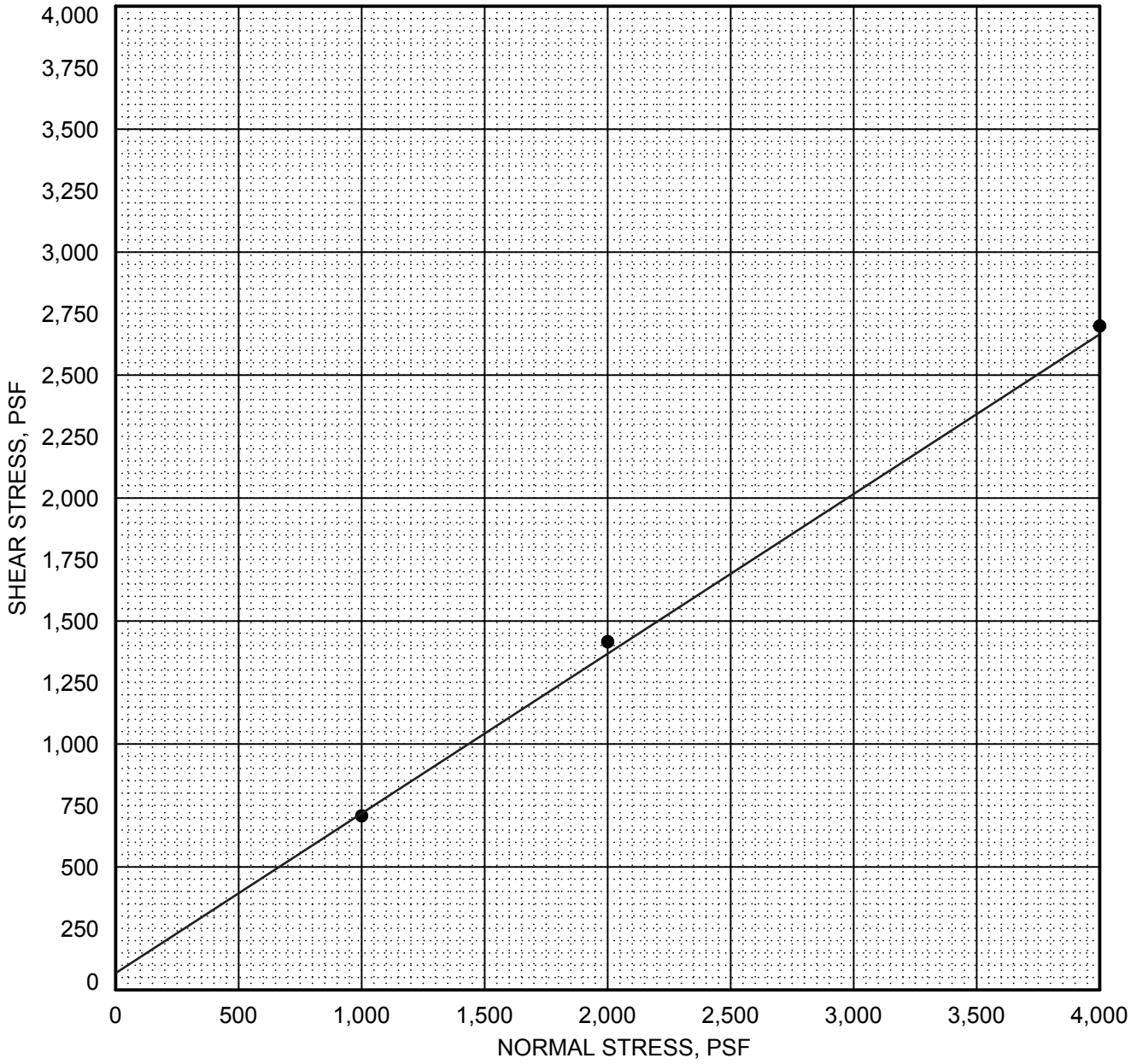
DIRECT SHEAR TEST
Undisturbed



5665 and 5757 Plaza Drive, Cypress	COHESION	66	psf.
	FRICTION ANGLE	33.0	degrees

symbol	boring	depth (ft.)	symbol	boring	depth (ft.)
●	B-4	20.0			

FIGURE S-6
DIRECT SHEAR TEST

PN: 1-1209 REPORT DATE: 05/04/22

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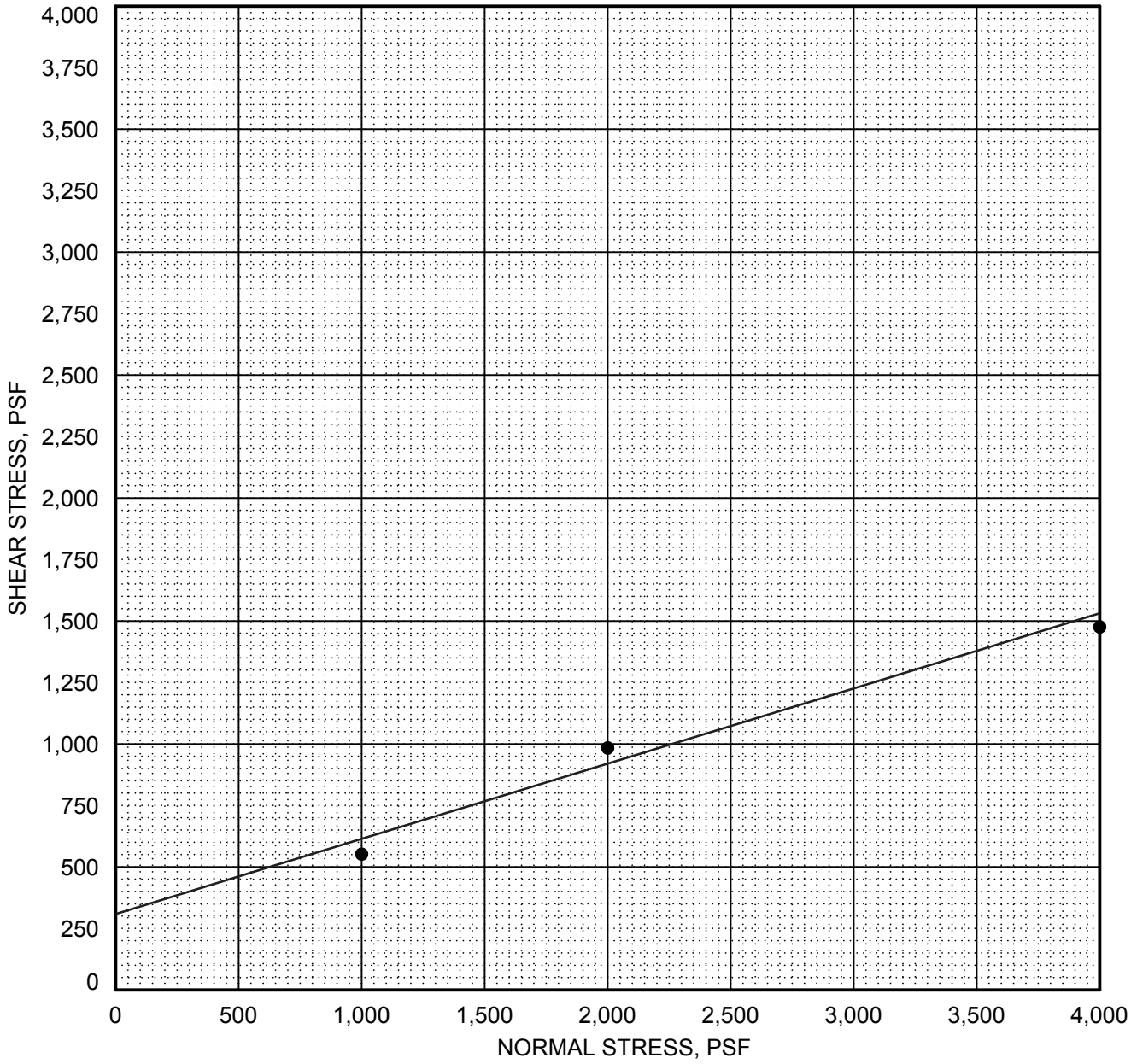
www.G3SoilWorks.com

DIRECT SHEAR TEST
Undisturbed



5665 and 5757 Plaza Drive, Cypress	COHESION	306	psf.
	FRICTION ANGLE	17.0	degrees

symbol	boring	depth (ft.)	symbol	boring	depth (ft.)
●	B-5	15.0			

FIGURE S-7
DIRECT SHEAR TEST

PN: 1-1209 REPORT DATE: 05/04/22

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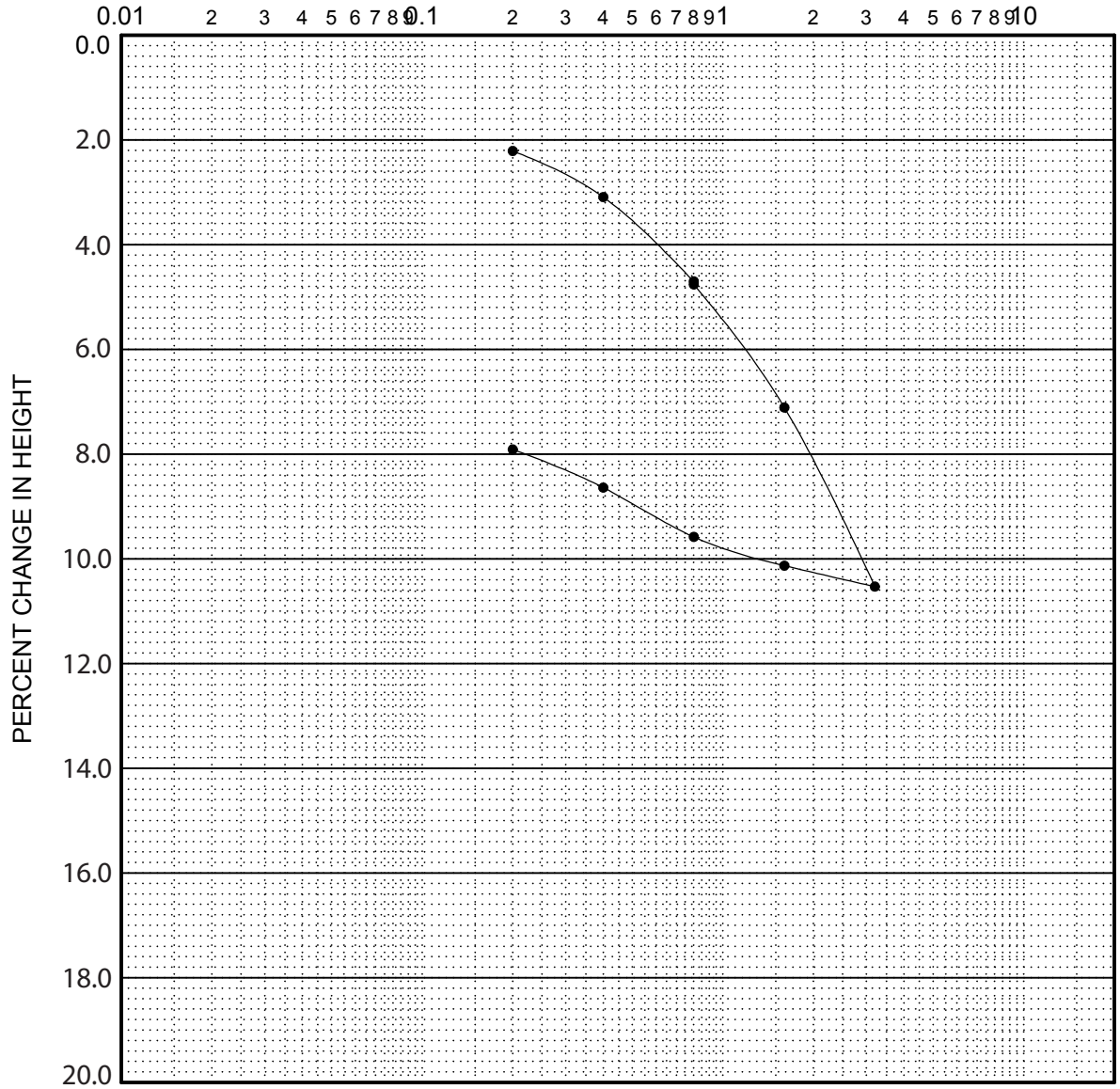
COMPRESSIVE STRESS IN TSF



Boring	Depth(ft.)	Dry Density	in situ Moist.	-200 sieve	Group Symbol	Soil Description
B-1	15.0	89.0	30.9		CL/ML	

WATER ADDED AT .8 TSF.

FIGURE C-1
CONSOLIDATION CURVE

PN:1-1209 REPORT DATE: 05/04/22

G3SoilWorks
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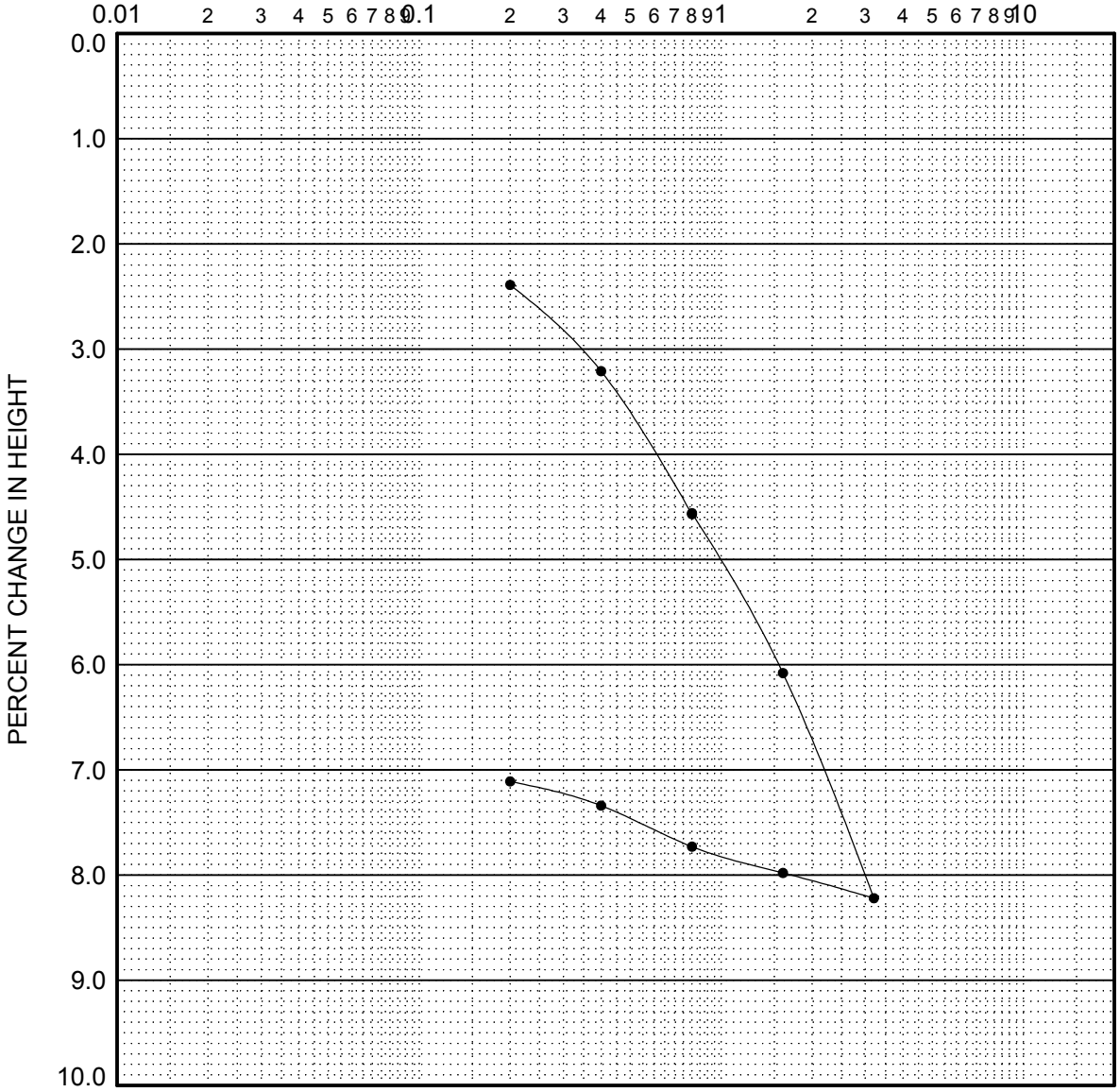
Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

FIG. C-1

COMPRESSIVE STRESS IN TSF



Boring	Depth(ft.)	Dry Density	in situ Moist.	-200 sieve	Group Symbol	Soil Description
B-3	15.0	99.1	23.3		ML	

WATER ADDED AT .8 TSF.

FIGURE C-2
CONSOLIDATION CURVE

PN:1-1209 REPORT DATE: 05/04/22

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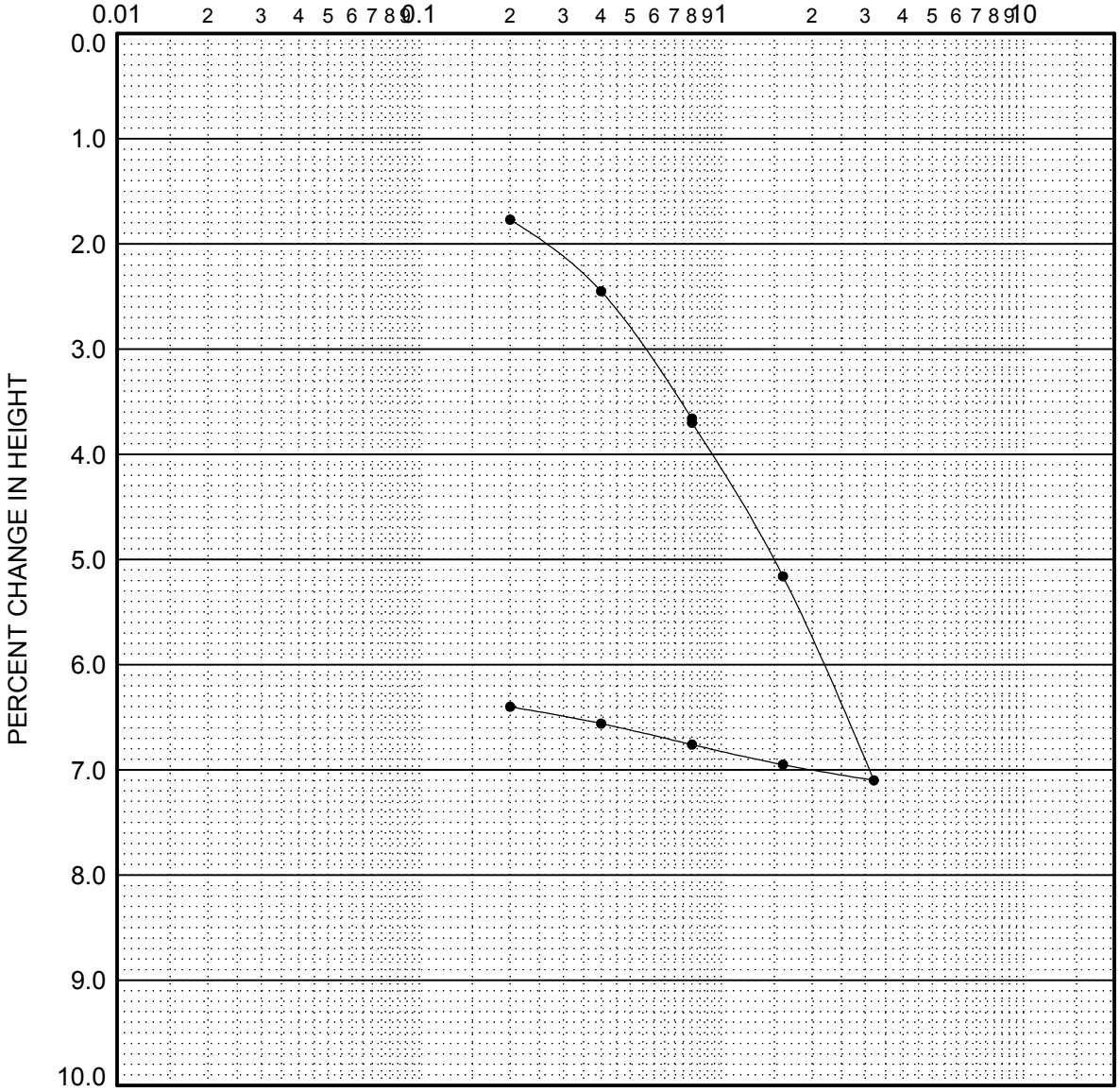
FIG. C-2

COMPRESSIVE STRESS IN TSF



Boring	Depth(ft.)	Dry Density	in situ Moist.	-200 sieve	Group Symbol	Soil Description
B-3	30.0	98.6	24.7		ML	

WATER ADDED AT .8 TSF.

FIGURE C-3
CONSOLIDATION CURVE

PN:1-1209 REPORT DATE: 05/04/22

G3SoilWorks
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Costa Mesa, CA 92626
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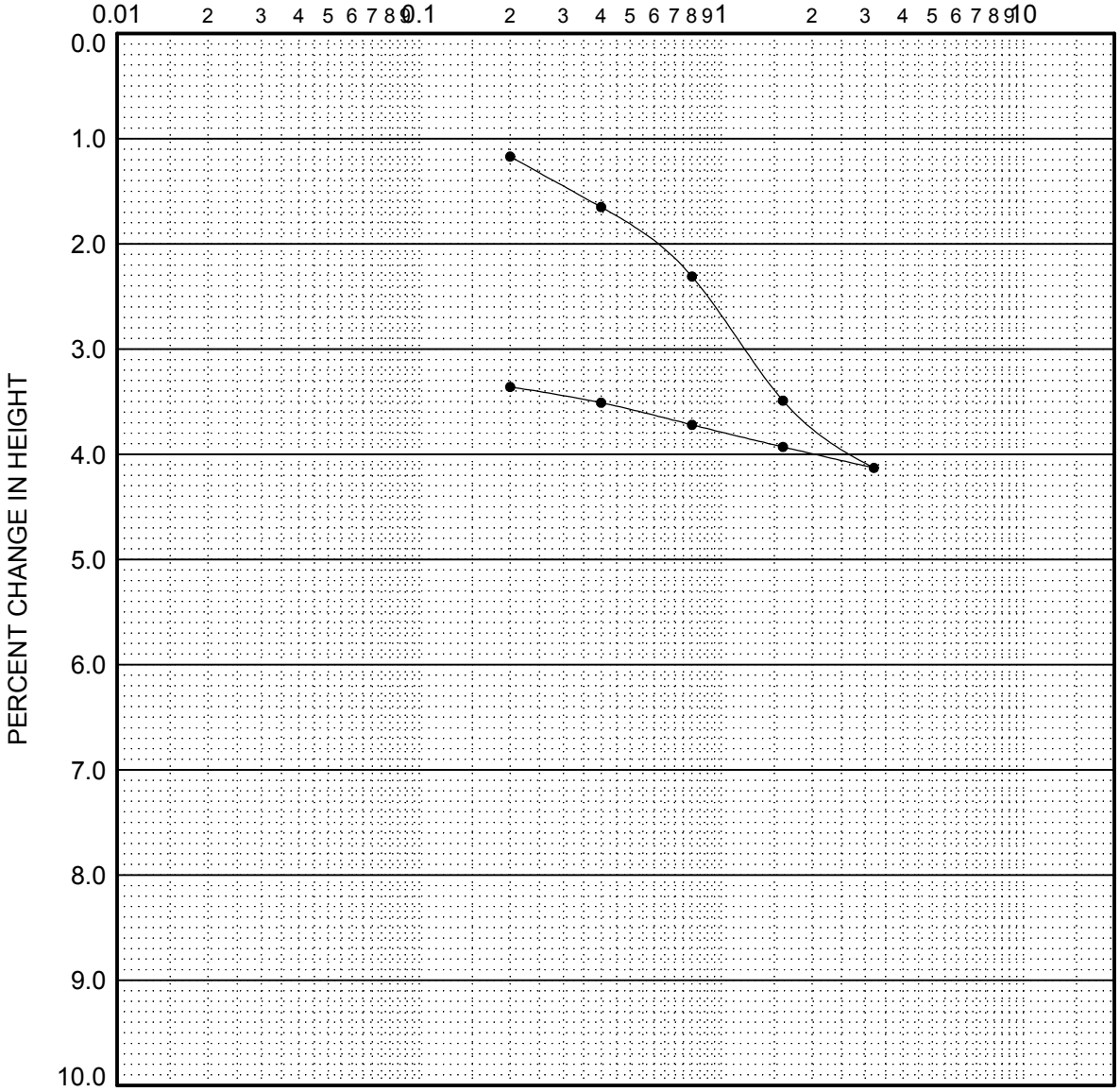
www.G3SoilWorks.com

FIG. C-3

COMPRESSIVE STRESS IN TSF



Boring	Depth(ft.)	Dry Density	in situ Moist.	-200 sieve	Group Symbol	Soil Description
B-4	10.0	96.9	29.0		SM	

WATER ADDED AT .8 TSF.

FIGURE C-4
CONSOLIDATION CURVE

PN:1-1209 REPORT DATE: 05/04/22

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Costa Mesa, CA 92626
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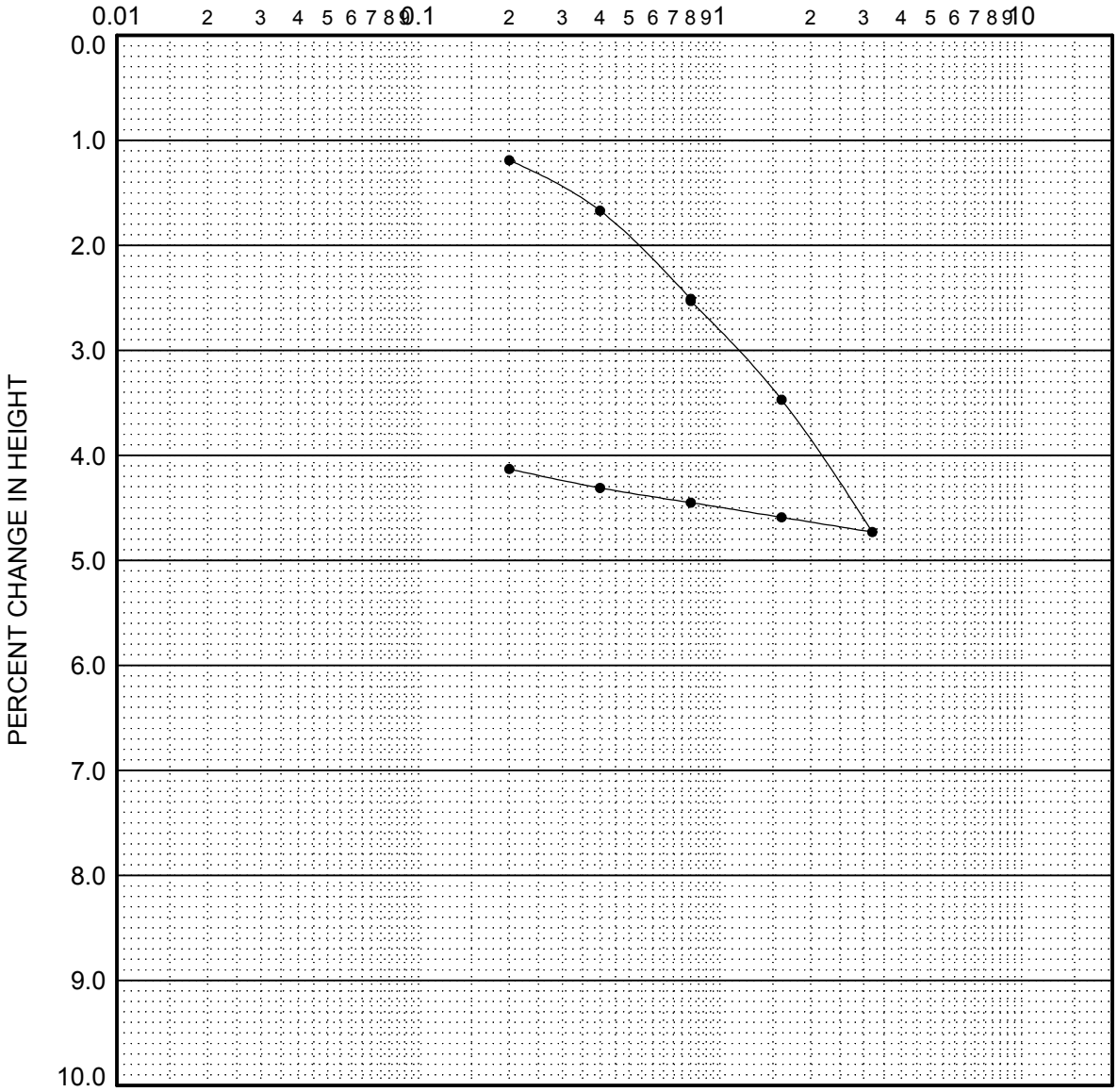
FIG. C-4

COMPRESSIVE STRESS IN TSF



Boring	Depth(ft.)	Dry Density	in situ Moist.	-200 sieve	Group Symbol	Soil Description
B-4	20.0	108.3	20.0		SM	

WATER ADDED AT .8 TSF.

FIGURE C-5
CONSOLIDATION CURVE

PN:1-1209 REPORT DATE: 05/04/22

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FIG. C-5

APPENDIX D

REFERENCE NO. 2 EXCERPTS

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-1

JOB NO.: 21G150-1
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 4/2/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 9.5 feet
CAVE DEPTH: 11 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic Concrete; 8± inches Aggregate Base							
		10			FILL: Gray Brown Silty fine Sand, mottled, loose to medium dense-moist to very moist		15					
		6					18					
5			2.0		ALLUVIUM: Gray Brown Silty Clay, trace Calcareous nodules, little Iron oxide staining, medium stiff-very moist		36	46	23			
		10			Dark Gray fine Sandy Silt, loose to medium dense-very moist to wet		24			56		
		7					29			62		
10												
15		13			@ 14 feet, trace Iron oxide staining		23			50		
					Gray Brown Silty fine Sand, loose to medium dense-wet							
		7					25			23		
20												
25		25			@ 24 feet, little Iron oxide staining		20			37		
					Gray Brown fine Sand, trace Silt, very loose-wet							
		2					25			4		
30			1.0		Gray Brown Silty Clay, little Iron oxide staining, very soft-wet		37	50	28	93		
					Gray Brown fine Sand, medium dense-wet							
		19			Gray Brown Silty fine Sand, trace Iron oxide staining, medium		22			5		

TBL 21G150-1.GPJ SOCALGEO.GDT 5/18/21

TEST BORING LOG

PLATE B-1a

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-1

JOB NO.: 21G150-1
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 4/2/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 9.5 feet
CAVE DEPTH: 11 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION (Continued)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					dense-wet							
40		16					23					
		14			@ 43½ feet, trace Calcareous nodules		21			42		
45												
					Gray fine Sandy Silt, medium dense-wet							
		15					31			80		
50					Boring Terminated at 50'							

TBL 21G150-1.GPJ SOCALGEO.GDT 5/18/21

TEST BORING LOG

PLATE B-1b

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-2

JOB NO.: 21G150-1 | DRILLING DATE: 4/2/21 | WATER DEPTH: 7.5 feet
PROJECT: Proposed C/I Development | DRILLING METHOD: Hollow Stem Auger | CAVE DEPTH: 8 feet
LOCATION: Cypress, California | LOGGED BY: Jamie Hayward | READING TAKEN: At Completion

DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic Concrete; 5± inches Aggregate Base							
		12			FILL: Gray Brown Silty fine Sand, trace medium to coarse Sand, little fine Gravel, trace tree roots, loose-damp	91	7					
		18			ALLUVIUM: Light Gray Brown fine Sand, trace medium Sand, medium dense-damp	99	3					
5		24				92	5					
		14			Gray Silty fine Sand, loose-wet	102	21			21		
		11			Gray Brown fine Sandy Silt, loose-wet	93	29			70		
10												
		9	1.5		Gray Brown Silty Clay, little to some fine Sand, little Calcareous nodules, stiff-wet		27			82		
15												
		15			Gray Brown fine Sandy Silt, little Iron oxide staining, loose to medium dense-wet	103	23			59		
20												
		7					22			61		
25			1.0		Dark Gray to Gray fine Sandy Clay, medium stiff-wet		23	29	17	58		
					Gray Brown fine Sandy Silt, little Clay, trace Iron oxide staining, medium dense-wet							
		18				99	28					
30												
					Gray Brown Silty Clay, trace Calcareous nodules, little Iron oxide staining, stiff-wet							
		11					30			88		

TBL 21G150-1.GPJ SOCALGEO.GDT 5/18/21

TEST BORING LOG **PLATE B-2a**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-2

JOB NO.: 21G150-1
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 4/2/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 7.5 feet
CAVE DEPTH: 8 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION (Continued)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					Gray Brown fine Sandy Silt, medium dense-wet							
40		19					26					
					Gray Silty fine Sand, medium dense-wet							
		16					26			33		
45												
					Gray Silty Clay, little fine Sand, very stiff-wet							
		23	3.0				20			77		
50					Boring Terminated at 50'							

TBL 21G150-1.GPJ SOCALGEO.GDT 5/18/21

TEST BORING LOG

PLATE B-2b

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-3

JOB NO.: 21G150-1 | DRILLING DATE: 4/2/21 | WATER DEPTH: 9 feet
PROJECT: Proposed C/I Development | DRILLING METHOD: Hollow Stem Auger | CAVE DEPTH: 12 feet
LOCATION: Cypress, California | LOGGED BY: Jamie Hayward | READING TAKEN: At Completion

DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic Concrete; 8± inches Aggregate Base							
		12			FILL: Gray Silty fine Sand, little Clay, loose-moist to very moist	107	16					
		8			@ 3 feet, slightly mottled	100	21					
5		10				107	19					
		15	1.5		ALLUVIUM: Gray Silty Clay, trace Iron oxide staining, stiff-very moist	93	30			83		
					Gray Brown Silty fine Sand to fine Sandy Silt, little Iron oxide staining, medium dense-wet							
		16				103	25			45		
10												
					Gray Brown Silty Clay, little fine Sand, medium stiff-wet							
		5	2.0				31	38	21	69		
15												
					Gray Brown fine Sandy Silt, little Iron oxide staining, micaceous, loose to medium dense-wet							
		12				96	25			66		
20												
		12					24					
25					Gray Silty fine Sand, trace to little Clay, medium dense-wet		21	25	21	41		
					Gray Silty fine Sand to fine Sandy Silt, loose-wet							
		10				98	25			55		
30												
					Light Gray Brown fine Sandy Clay, little Iron oxide staining, trace Calcareous nodules/veining, stiff-wet							
		11	2.0				29	40	20	76		

TBL 21G150-1.GPJ SOCALGEO.GDT 5/18/21

TEST BORING LOG **PLATE B-3a**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-3

JOB NO.: 21G150-1
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 4/2/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 9 feet
CAVE DEPTH: 12 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION (Continued)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					Gray Brown Silty fine Sand, loose-wet							
		7					27			40		
40												
					Gray Brown fine Sand, little Silt, medium dense-wet							
		16					24			11		
45												
		18					22					
50					Boring Terminated at 50'							

TBL 21G150-1.GPJ SOCALGEO.GDT 5/18/21

TEST BORING LOG

PLATE B-3b

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-4

JOB NO.: 21G150-1
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 4/2/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 6 feet
CAVE DEPTH: 12 feet
READING TAKEN: 4 hrs After Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic Concrete; 8± inches Aggregate Base							
		11			FILL: Gray Silty fine Sand, 2-inch fine Sandy Silt lense, medium dense-very moist to wet		15					EI = 8 @ 0 to 5 feet
		6			@ 3½ feet, mottled, loose		28					
5												
		4			FILL: Brown Silty fine Sand, very loose to loose-wet		22			17		
					ALLUVIUM: Gray Brown Silty fine Sand, very loose to loose-wet		26			41		
		2					27			37		
10												
					Gray Brown Silty Clay, little fine Sand, little Iron oxide staining, medium stiff-wet							
		11	2.5				27	40	18	82		
15												
					Gray fine Sand, trace to little Silt, loose-wet							
		8					28					
20												
		25			@ 24 feet, medium dense		16			11		
25												
		5					24			12		
					Gray Brown fine Sandy Silt, loose-wet		24			59		
30												
					Gray Brown Silty fine Sand, medium dense-wet							
		35					19			36		

TBL 21G150-1.GPJ SOCALGEO.GDT 5/18/21

TEST BORING LOG

PLATE B-4a

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-4

JOB NO.: 21G150-1
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 4/2/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 6 feet
CAVE DEPTH: 12 feet
READING TAKEN: 4 hrs After Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION (Continued)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					Gray Brown to Gray fine Sandy Silt, little Iron oxide staining, medium dense-wet							
40		27					31					
					Gray Brown to Gray Silty fine Sand, medium dense-wet							
		12					27			42		
45					Gray fine Sandy Silt, trace Clay, medium dense-wet		18			54		
		26					20					
50					Boring Terminated at 50'							

TBL 21G150-1.GPJ SOCALGEO.GDT 5/18/21

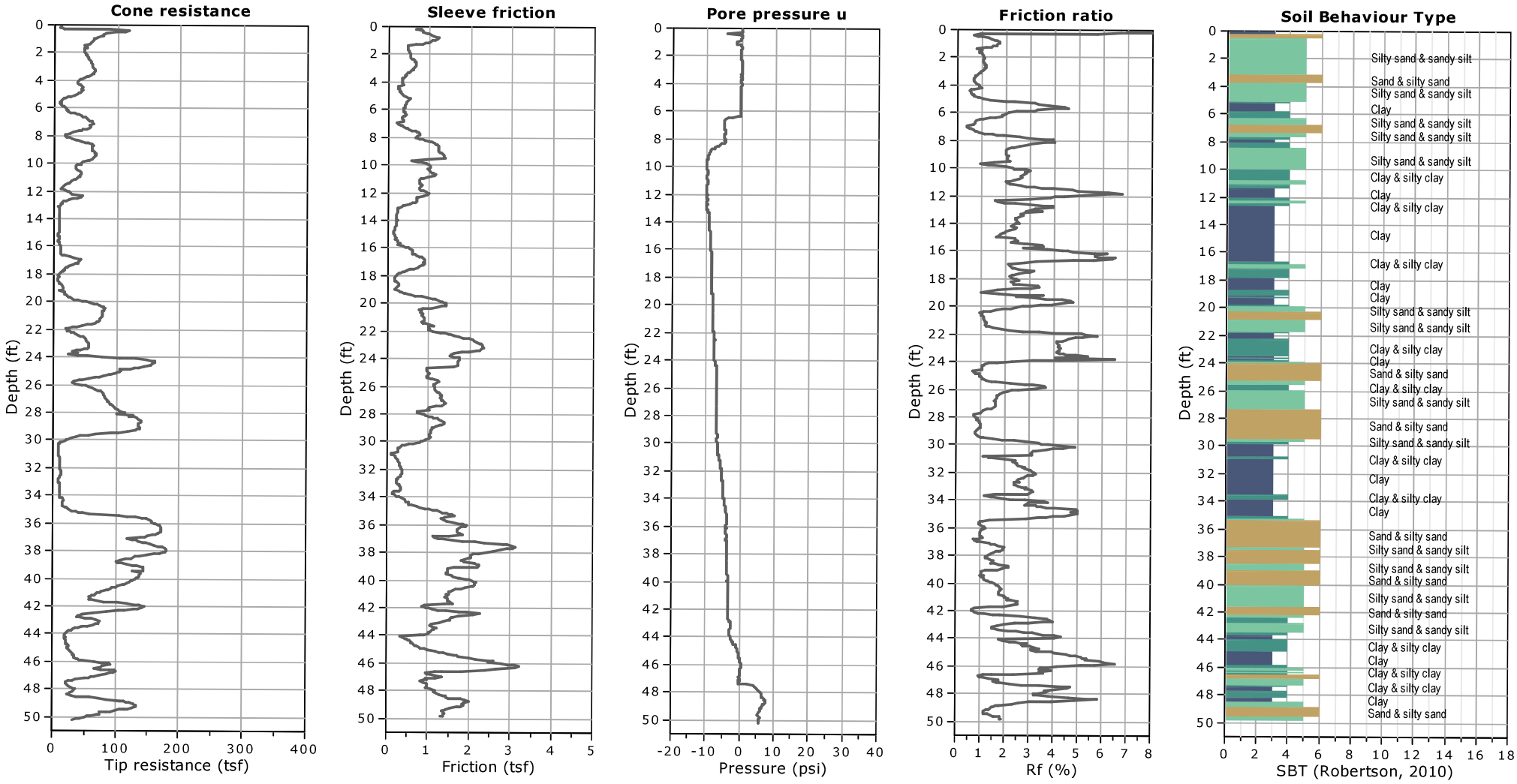
TEST BORING LOG

PLATE B-4b

Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

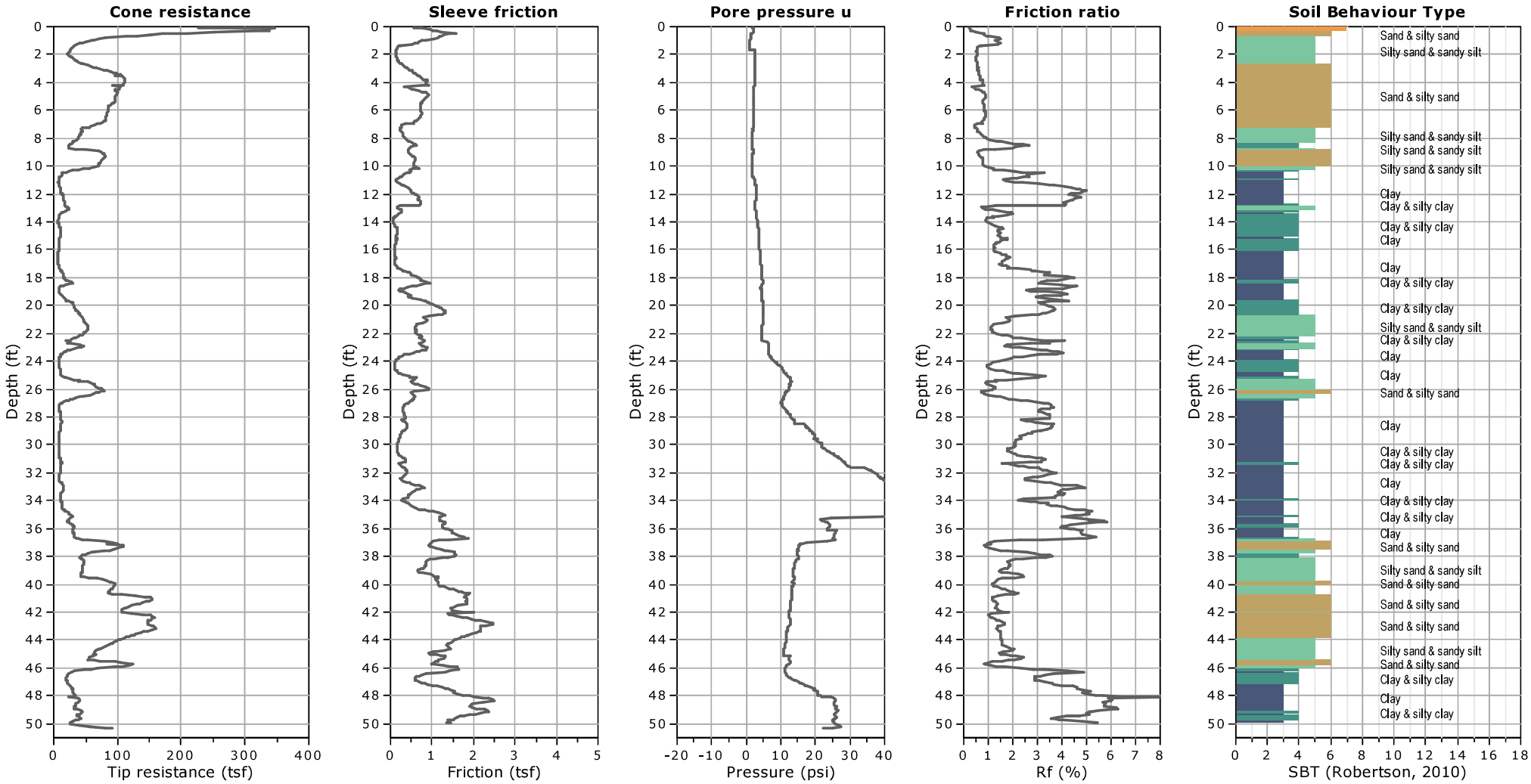
Project: Southern California Geotechnical
Location: 5665 Plaza Dr, Cypress, CA

CPT-1
Total depth: 50.22 ft, Date: 4/2/2021



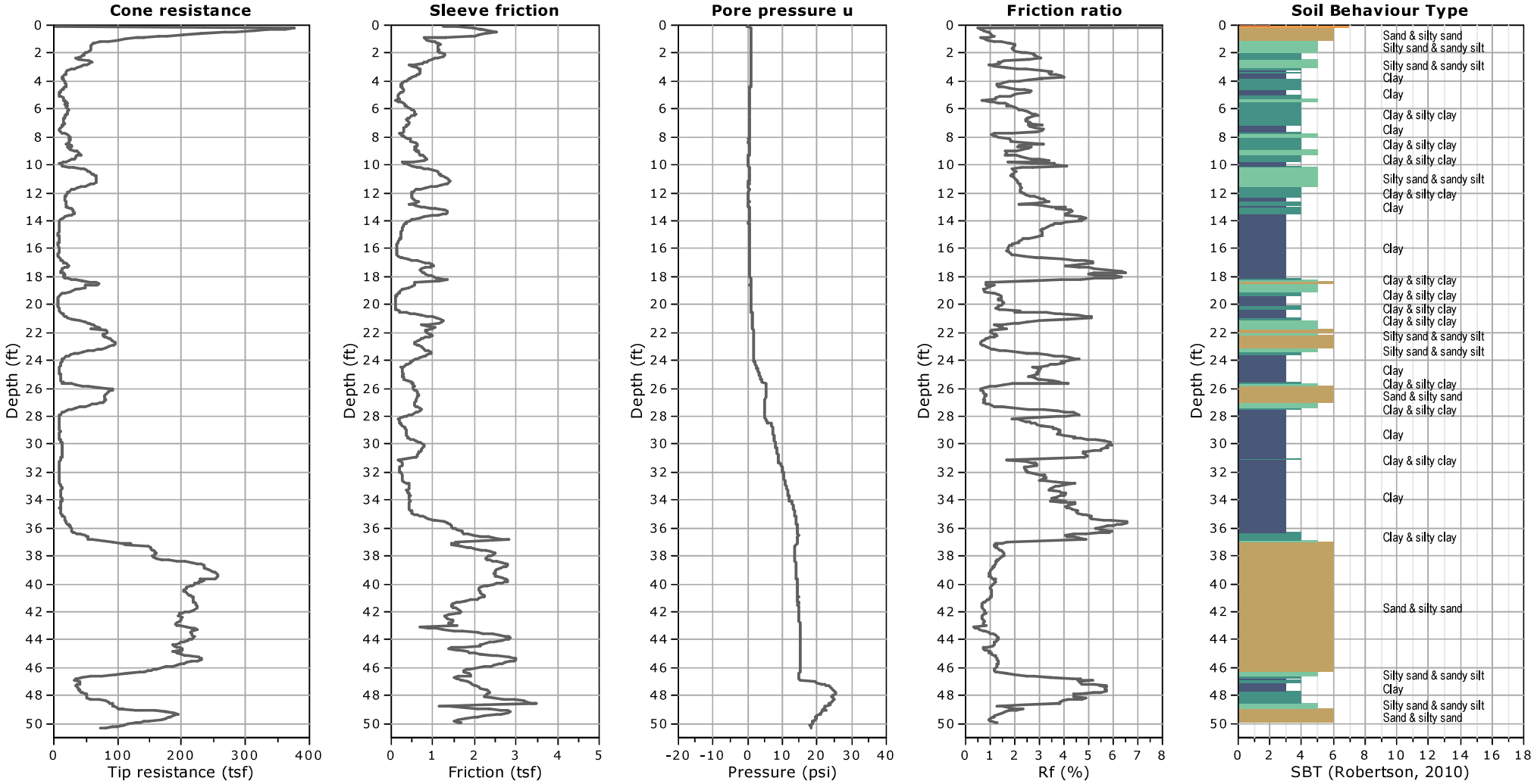
Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: **Southern California Geotechnical** **CPT-2**
Location: **5665 Plaza Dr, Cypress, CA** Total depth: 50.33 ft, Date: 4/2/2021



Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

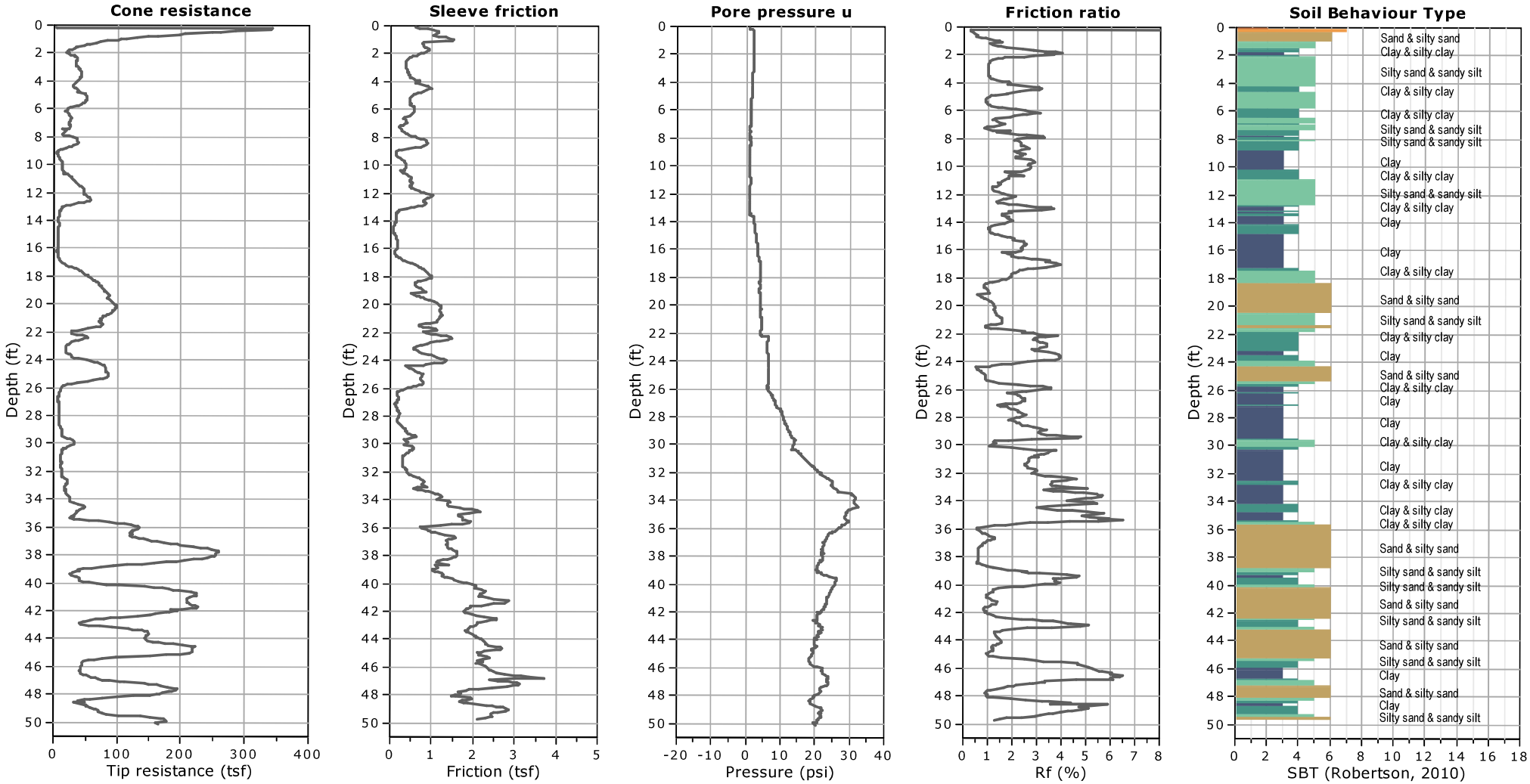
Project: **Southern California Geotechnical** **CPT-3**
Location: **5665 Plaza Dr, Cypress, CA** Total depth: 50.35 ft, Date: 4/2/2021



Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: Southern California Geotechnical
Location: 5665 Plaza Dr, Cypress, CA

CPT-4
Total depth: 50.10 ft, Date: 4/2/2021



:: Post-earthquake settlement due to soil liquefaction ::

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
5.06	105.65	0.39	3.04	1.00	0.02	5.15	98.60	0.35	3.26	1.00	0.03
5.19	94.96	0.34	3.39	1.00	0.02	5.28	26.94	2.00	0.00	1.00	0.00
5.32	25.00	2.00	0.00	1.00	0.00	5.40	22.09	2.00	0.00	1.00	0.00
5.45	18.48	2.00	0.00	1.00	0.00	5.54	15.55	2.00	0.00	1.00	0.00
5.58	15.13	2.00	0.00	1.00	0.00	5.66	14.44	2.00	0.00	1.00	0.00
5.72	15.97	2.00	0.00	1.00	0.00	5.80	18.60	2.00	0.00	1.00	0.00
5.85	20.00	2.00	0.00	1.00	0.00	5.92	24.45	2.00	0.00	1.00	0.00
5.99	86.64	0.29	3.71	1.00	0.03	6.04	87.43	0.29	3.68	1.00	0.02
6.12	89.04	0.30	3.61	1.00	0.04	6.20	91.91	0.30	3.50	1.00	0.04
6.24	93.96	0.31	3.42	1.00	0.02	6.32	99.49	0.32	3.23	1.00	0.03
6.39	104.70	0.34	3.06	1.00	0.02	6.46	106.41	0.35	3.01	1.00	0.03
6.51	105.90	0.34	3.03	1.00	0.02	6.59	103.31	0.33	3.11	1.00	0.03
6.64	101.41	0.32	3.17	1.00	0.02	6.70	99.84	0.32	3.22	1.00	0.03
6.79	100.57	0.32	3.19	1.00	0.03	6.83	96.59	0.30	3.33	1.00	0.01
6.90	89.51	0.28	3.59	1.00	0.03	6.99	92.52	0.29	3.48	1.00	0.04
7.04	93.83	0.29	3.43	1.00	0.02	7.12	95.27	0.29	3.37	1.00	0.03
7.17	95.76	0.29	3.36	1.00	0.02	7.23	93.20	0.28	3.45	1.00	0.03
7.33	100.03	0.30	3.21	1.00	0.04	7.36	102.37	0.31	3.14	1.00	0.01
7.42	108.82	0.33	2.94	1.00	0.02	7.50	114.73	0.36	2.79	1.00	0.03
7.59	116.57	0.37	2.74	1.00	0.03	7.63	114.97	0.36	2.78	1.00	0.02
7.68	112.14	0.34	2.85	1.00	0.02	7.76	103.61	0.31	3.10	1.00	0.03
7.81	98.37	0.29	3.27	1.00	0.02	7.89	29.14	2.00	0.00	1.00	0.00
7.94	26.27	2.00	0.00	1.00	0.00	8.03	24.70	2.00	0.00	1.00	0.00
8.12	27.54	2.00	0.00	1.00	0.00	8.16	32.41	2.00	0.00	1.00	0.00
8.20	101.14	0.29	3.18	1.00	0.02	8.29	110.07	0.33	2.91	1.00	0.03
8.34	111.74	0.33	2.86	1.00	0.02	8.43	118.93	0.36	2.68	1.00	0.03
8.49	124.88	0.40	2.54	1.00	0.02	8.54	129.17	0.43	2.45	1.00	0.01
8.61	133.85	0.46	2.36	1.00	0.02	8.69	134.94	0.47	2.34	1.00	0.02
8.73	135.30	0.47	2.33	1.00	0.01	8.82	134.71	0.47	2.34	1.00	0.03
8.86	134.45	0.46	2.35	1.00	0.01	8.96	134.25	0.46	2.35	1.00	0.03
9.01	134.07	0.46	2.35	1.00	0.01	9.08	134.29	0.46	2.35	1.00	0.02
9.13	135.04	0.46	2.33	1.00	0.01	9.23	137.50	0.49	2.29	1.00	0.03
9.30	138.71	0.50	2.27	1.00	0.02	9.35	139.26	0.50	2.26	1.00	0.01
9.39	139.18	0.50	2.26	1.00	0.01	9.51	137.83	0.48	2.28	1.00	0.03
9.54	136.94	0.48	2.30	1.00	0.01	9.60	126.47	0.39	2.51	1.00	0.02
9.65	110.14	0.31	2.91	1.00	0.02	9.77	118.19	0.34	2.70	1.00	0.04
9.83	118.50	0.34	2.69	1.00	0.02	9.93	115.20	0.33	2.77	1.00	0.03
9.98	113.29	0.32	2.82	1.00	0.02	10.04	114.58	0.32	2.79	1.00	0.02
10.13	107.25	0.29	2.99	1.00	0.03	10.20	104.68	0.28	3.07	1.00	0.03
10.27	104.42	0.28	3.07	1.00	0.03	10.32	104.17	0.28	3.08	1.00	0.02
10.40	104.31	0.28	3.08	1.00	0.03	10.45	107.24	0.29	2.99	1.00	0.02
10.53	111.49	0.31	2.87	1.00	0.03	10.57	112.49	0.31	2.84	1.00	0.01
10.66	113.58	0.31	2.81	1.00	0.03	10.71	114.22	0.32	2.80	1.00	0.02
10.79	113.99	0.31	2.80	1.00	0.03	10.88	111.08	0.30	2.88	1.00	0.03
10.93	109.19	0.29	2.93	1.00	0.02	10.98	107.23	0.29	2.99	1.00	0.02
11.07	103.80	0.27	3.09	1.00	0.04	11.12	101.95	0.27	3.15	1.00	0.02
11.17	100.06	0.26	3.21	1.00	0.02	11.27	95.22	0.25	3.38	1.00	0.04
11.32	93.20	0.24	3.45	1.00	0.02	11.37	91.05	0.23	3.53	1.00	0.02

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
11.43	29.14	2.00	0.00	1.00	0.00	11.49	26.45	2.00	0.00	1.00	0.00
11.58	21.60	2.00	0.00	1.00	0.00	11.64	19.64	2.00	0.00	1.00	0.00
11.76	15.59	2.00	0.00	1.00	0.00	11.84	15.14	2.00	0.00	1.00	0.00
11.89	17.48	2.00	0.00	1.00	0.00	11.95	22.37	2.00	0.00	1.00	0.00
12.02	27.90	2.00	0.00	1.00	0.00	12.07	30.58	2.00	0.00	1.00	0.00
12.11	31.58	2.00	0.00	1.00	0.00	12.20	95.23	0.24	3.38	1.00	0.04
12.33	107.16	0.27	2.99	1.00	0.05	12.37	109.09	0.28	2.94	1.00	0.02
12.44	106.98	0.27	3.00	1.00	0.02	12.51	102.44	0.26	3.13	1.00	0.03
12.58	94.94	0.24	3.39	1.00	0.03	12.63	87.53	0.22	3.67	1.00	0.02
12.69	22.75	2.00	0.00	1.00	0.00	12.75	19.15	2.00	0.00	1.00	0.00
12.81	16.49	2.00	0.00	1.00	0.00	12.88	15.11	2.00	0.00	1.00	0.00
12.94	14.13	2.00	0.00	1.00	0.00	13.00	13.16	2.00	0.00	1.00	0.00
13.12	11.43	2.00	0.00	1.00	0.00	13.16	8.96	2.00	0.00	1.00	0.00
13.20	10.77	2.00	0.00	1.00	0.00	13.27	10.87	2.00	0.00	1.00	0.00
13.34	10.85	2.00	0.00	1.00	0.00	13.42	10.84	2.00	0.00	1.00	0.00
13.45	10.40	2.00	0.00	1.00	0.00	13.56	11.02	2.00	0.00	1.00	0.00
13.60	11.11	2.00	0.00	1.00	0.00	13.68	10.89	2.00	0.00	1.00	0.00
13.74	10.88	2.00	0.00	1.00	0.00	13.82	10.86	2.00	0.00	1.00	0.00
13.85	10.85	2.00	0.00	1.00	0.00	13.95	10.83	2.00	0.00	1.00	0.00
14.00	10.82	2.00	0.00	1.00	0.00	14.05	10.72	2.00	0.00	1.00	0.00
14.13	10.70	2.00	0.00	1.00	0.00	14.17	10.69	2.00	0.00	1.00	0.00
14.26	9.82	2.00	0.00	1.00	0.00	14.31	9.72	2.00	0.00	1.00	0.00
14.39	10.12	2.00	0.00	1.00	0.00	14.44	10.11	2.00	0.00	1.00	0.00
14.53	10.10	2.00	0.00	1.00	0.00	14.59	10.09	2.00	0.00	1.00	0.00
14.66	9.98	2.00	0.00	1.00	0.00	14.70	9.97	2.00	0.00	1.00	0.00
14.79	9.96	2.00	0.00	1.00	0.00	14.84	9.95	2.00	0.00	1.00	0.00
14.96	9.78	2.00	0.00	1.00	0.00	15.01	9.61	2.00	0.00	1.00	0.00
15.10	8.23	2.00	0.00	1.00	0.00	15.15	9.06	2.00	0.00	1.00	0.00
15.22	9.04	2.00	0.00	1.00	0.00	15.27	9.35	2.00	0.00	1.00	0.00
15.32	9.96	2.00	0.00	1.00	0.00	15.45	9.53	2.00	0.00	1.00	0.00
15.50	9.42	2.00	0.00	1.00	0.00	15.58	8.27	2.00	0.00	1.00	0.00
15.63	8.58	2.00	0.00	1.00	0.00	15.68	9.90	2.00	0.00	1.00	0.00
15.75	9.79	2.00	0.00	1.00	0.00	15.80	10.49	2.00	0.00	1.00	0.00
15.87	11.50	2.00	0.00	1.00	0.00	15.93	11.89	2.00	0.00	1.00	0.00
15.99	12.79	2.00	0.00	1.00	0.00	16.03	13.09	2.00	0.00	1.00	0.00
16.11	12.46	2.00	0.00	1.00	0.00	16.15	11.84	2.00	0.00	1.00	0.00
16.23	12.23	2.00	0.00	1.00	0.00	16.28	12.31	2.00	0.00	1.00	0.00
16.37	12.29	2.00	0.00	1.00	0.00	16.41	11.88	2.00	0.00	1.00	0.00
16.49	11.87	2.00	0.00	1.00	0.00	16.55	12.76	2.00	0.00	1.00	0.00
16.63	16.21	2.00	0.00	1.00	0.00	16.67	19.97	2.00	0.00	1.00	0.00
16.76	30.38	2.00	0.00	1.00	0.00	16.81	96.52	0.22	3.33	1.00	0.02
16.90	104.95	0.24	3.06	1.00	0.03	16.93	106.25	0.25	3.02	1.00	0.01
17.02	104.80	0.24	3.06	1.00	0.03	17.07	104.25	0.24	3.08	1.00	0.02
17.16	103.77	0.24	3.09	1.00	0.03	17.21	102.11	0.23	3.15	1.00	0.02
17.27	98.71	0.22	3.26	1.00	0.02	17.34	93.68	0.21	3.43	1.00	0.03
17.44	25.77	2.00	0.00	1.00	0.00	17.51	23.43	2.00	0.00	1.00	0.00
17.55	21.38	2.00	0.00	1.00	0.00	17.63	20.29	2.00	0.00	1.00	0.00
17.69	19.21	2.00	0.00	1.00	0.00	17.74	18.12	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
17.82	16.35	2.00	0.00	1.00	0.00	17.86	14.10	2.00	0.00	1.00	0.00
17.92	12.02	2.00	0.00	1.00	0.00	18.00	10.04	2.00	0.00	1.00	0.00
18.06	9.25	2.00	0.00	1.00	0.00	18.12	8.16	2.00	0.00	1.00	0.00
18.25	8.63	2.00	0.00	1.00	0.00	18.30	8.43	2.00	0.00	1.00	0.00
18.37	8.43	2.00	0.00	1.00	0.00	18.43	8.42	2.00	0.00	1.00	0.00
18.54	8.21	2.00	0.00	1.00	0.00	18.61	9.07	2.00	0.00	1.00	0.00
18.66	10.13	2.00	0.00	1.00	0.00	18.73	12.35	2.00	0.00	1.00	0.00
18.78	14.87	2.00	0.00	1.00	0.00	18.97	73.05	0.17	4.37	1.00	0.10
19.09	16.33	2.00	0.00	1.00	0.00	19.15	14.20	2.00	0.00	1.00	0.00
19.16	12.47	2.00	0.00	1.00	0.00	19.17	10.25	2.00	0.00	1.00	0.00
19.26	17.42	2.00	0.00	1.00	0.00	19.30	18.17	2.00	0.00	1.00	0.00
19.39	19.08	2.00	0.00	1.00	0.00	19.43	19.63	2.00	0.00	1.00	0.00
19.53	21.66	2.00	0.00	1.00	0.00	19.59	22.95	2.00	0.00	1.00	0.00
19.66	25.16	2.00	0.00	1.00	0.00	19.71	27.84	2.00	0.00	1.00	0.00
19.83	35.81	2.00	0.00	1.00	0.00	19.89	103.55	0.23	3.10	1.00	0.02
19.96	110.97	0.25	2.88	1.00	0.03	20.01	117.44	0.27	2.72	1.00	0.02
20.07	123.87	0.30	2.57	1.00	0.02	20.14	128.46	0.33	2.47	1.00	0.02
20.21	131.22	0.34	2.41	1.00	0.02	20.27	132.30	0.35	2.39	1.00	0.02
20.32	129.67	0.33	2.44	1.00	0.01	20.38	122.94	0.30	2.59	1.00	0.02
20.45	115.74	0.27	2.76	1.00	0.02	20.50	121.25	0.29	2.63	1.00	0.02
20.62	119.60	0.28	2.66	1.00	0.04	20.68	121.45	0.29	2.62	1.00	0.02
20.75	122.13	0.29	2.61	1.00	0.02	20.81	121.49	0.29	2.62	1.00	0.02
20.84	121.54	0.29	2.62	1.00	0.01	20.98	122.78	0.29	2.59	1.00	0.04
21.05	123.63	0.30	2.57	1.00	0.02	21.11	123.67	0.30	2.57	1.00	0.02
21.17	123.19	0.30	2.58	1.00	0.02	21.23	122.53	0.29	2.60	1.00	0.02
21.37	120.77	0.28	2.64	1.00	0.04	21.41	121.11	0.29	2.63	1.00	0.01
21.48	122.57	0.29	2.60	1.00	0.02	21.54	123.21	0.30	2.58	1.00	0.02
21.60	121.22	0.29	2.63	1.00	0.02	21.67	114.05	0.26	2.80	1.00	0.02
21.72	106.84	0.23	3.00	1.00	0.02	21.80	99.11	0.21	3.24	1.00	0.03
21.85	31.01	2.00	0.00	1.00	0.00	21.90	25.77	2.00	0.00	1.00	0.00
21.94	20.97	2.00	0.00	1.00	0.00	21.99	21.67	2.00	0.00	1.00	0.00
22.10	23.25	2.00	0.00	1.00	0.00	22.16	26.54	2.00	0.00	1.00	0.00
22.22	30.08	2.00	0.00	1.00	0.00	22.26	32.65	2.00	0.00	1.00	0.00
22.36	36.67	2.00	0.00	1.00	0.00	22.43	39.89	2.00	0.00	1.00	0.00
22.49	108.13	0.24	2.96	1.00	0.02	22.55	113.52	0.25	2.82	1.00	0.02
22.62	116.41	0.26	2.74	1.00	0.02	22.68	117.42	0.27	2.72	1.00	0.02
22.80	118.59	0.27	2.69	1.00	0.04	22.86	119.93	0.28	2.66	1.00	0.02
22.93	120.84	0.28	2.64	1.00	0.02	22.98	121.61	0.29	2.62	1.00	0.02
23.05	121.47	0.29	2.62	1.00	0.02	23.11	121.60	0.29	2.62	1.00	0.02
23.18	122.28	0.29	2.60	1.00	0.02	23.24	122.36	0.29	2.60	1.00	0.02
23.31	121.81	0.29	2.61	1.00	0.02	23.37	119.53	0.28	2.67	1.00	0.02
23.42	115.34	0.26	2.77	1.00	0.02	23.49	44.55	2.00	0.00	1.00	0.00
23.54	37.74	2.00	0.00	1.00	0.00	23.63	30.64	2.00	0.00	1.00	0.00
23.69	38.35	2.00	0.00	1.00	0.00	23.75	23.77	2.00	0.00	1.00	0.00
23.86	38.95	2.00	0.00	1.00	0.00	23.93	118.56	0.27	2.69	1.00	0.02
23.98	138.73	0.39	2.27	1.00	0.01	24.04	155.52	0.59	1.99	1.00	0.01
24.11	157.11	0.62	1.90	1.00	0.02	24.16	153.82	0.56	2.02	1.00	0.01
24.24	156.98	0.61	1.91	1.00	0.02	24.29	160.28	0.68	1.71	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
24.36	160.33	0.68	1.71	1.00	0.01	24.42	158.67	0.64	1.81	1.00	0.01
24.49	156.47	0.60	1.95	1.00	0.02	24.55	153.21	0.55	2.03	1.00	0.02
24.67	141.16	0.41	2.22	1.00	0.03	24.73	134.13	0.35	2.35	1.00	0.02
24.78	126.94	0.31	2.50	1.00	0.01	24.86	121.09	0.28	2.63	1.00	0.03
24.88	122.04	0.29	2.61	1.00	0.00	25.00	122.79	0.29	2.59	1.00	0.04
25.04	123.87	0.29	2.57	1.00	0.01	25.08	125.31	0.30	2.53	1.00	0.01
25.16	126.87	0.31	2.50	1.00	0.02	25.23	126.71	0.31	2.50	1.00	0.02
25.27	126.07	0.30	2.52	1.00	0.01	25.35	125.48	0.30	2.53	1.00	0.02
25.44	124.44	0.30	2.55	1.00	0.03	25.48	122.69	0.29	2.59	1.00	0.01
25.56	115.35	0.26	2.77	1.00	0.03	25.63	105.55	0.23	3.04	1.00	0.02
25.68	100.82	0.22	3.19	1.00	0.02	25.76	32.38	2.00	0.00	1.00	0.00
25.80	30.93	2.00	0.00	1.00	0.00	25.88	30.47	2.00	0.00	1.00	0.00
25.93	33.74	2.00	0.00	1.00	0.00	26.01	105.74	0.23	3.03	1.00	0.03
26.06	110.60	0.24	2.89	1.00	0.02	26.12	114.47	0.25	2.79	1.00	0.02
26.19	119.52	0.27	2.67	1.00	0.02	26.29	123.10	0.29	2.58	1.00	0.03
26.39	126.01	0.30	2.52	1.00	0.03	26.43	127.74	0.31	2.48	1.00	0.01
26.47	129.03	0.32	2.45	1.00	0.01	26.57	131.02	0.33	2.41	1.00	0.03
26.62	132.04	0.34	2.39	1.00	0.01	26.67	132.73	0.34	2.38	1.00	0.01
26.72	133.20	0.34	2.37	1.00	0.01	26.81	133.52	0.35	2.36	1.00	0.03
26.87	133.75	0.35	2.36	1.00	0.02	26.93	134.23	0.35	2.35	1.00	0.02
26.99	134.97	0.36	2.34	1.00	0.02	27.06	135.94	0.36	2.32	1.00	0.02
27.11	136.68	0.37	2.30	1.00	0.01	27.17	137.52	0.37	2.29	1.00	0.02
27.24	138.32	0.38	2.27	1.00	0.02	27.37	137.54	0.37	2.29	1.00	0.03
27.42	134.39	0.35	2.35	1.00	0.02	27.50	128.51	0.31	2.47	1.00	0.02
27.60	126.94	0.31	2.50	1.00	0.03	27.68	126.93	0.31	2.50	1.00	0.02
27.80	105.48	0.23	3.04	1.00	0.04	27.85	105.18	0.23	3.05	1.00	0.02
27.98	111.16	0.24	2.88	1.00	0.05	28.03	113.63	0.25	2.81	1.00	0.02
28.06	120.44	0.28	2.64	1.00	0.01	28.16	120.10	0.27	2.65	1.00	0.03
28.21	122.92	0.29	2.59	1.00	0.02	28.25	126.59	0.30	2.51	1.00	0.01
28.33	130.46	0.33	2.43	1.00	0.02	28.36	131.40	0.33	2.41	1.00	0.01
28.45	134.43	0.35	2.35	1.00	0.03	28.56	137.49	0.37	2.29	1.00	0.03
28.60	137.93	0.38	2.28	1.00	0.01	28.65	137.62	0.37	2.29	1.00	0.01
28.68	136.99	0.37	2.30	1.00	0.01	28.78	134.06	0.35	2.35	1.00	0.03
28.82	132.23	0.34	2.39	1.00	0.01	28.92	128.67	0.31	2.46	1.00	0.03
28.97	127.57	0.31	2.49	1.00	0.02	29.02	127.51	0.31	2.49	1.00	0.01
29.07	128.51	0.31	2.47	1.00	0.02	29.17	128.09	0.31	2.47	1.00	0.03
29.22	125.57	0.30	2.53	1.00	0.02	29.27	122.81	0.29	2.59	1.00	0.01
29.35	121.90	0.28	2.61	1.00	0.03	29.45	127.06	0.31	2.50	1.00	0.03
29.50	127.75	0.31	2.48	1.00	0.01	29.59	119.13	0.27	2.68	1.00	0.03
29.66	110.71	0.24	2.89	1.00	0.02	29.70	100.79	0.21	3.19	1.00	0.02
29.75	33.26	2.00	0.00	1.00	0.00	29.84	25.01	2.00	0.00	1.00	0.00
29.91	22.67	2.00	0.00	1.00	0.00	29.96	20.00	2.00	0.00	1.00	0.00
30.01	16.95	2.00	0.00	1.00	0.00	30.12	12.04	2.00	0.00	1.00	0.00
30.17	10.44	2.00	0.00	1.00	0.00	30.23	9.31	2.00	0.00	1.00	0.00
30.28	8.67	2.00	0.00	1.00	0.00	30.34	8.27	2.00	0.00	1.00	0.00
30.45	7.94	2.00	0.00	1.00	0.00	30.49	7.94	2.00	0.00	1.00	0.00
30.53	7.93	2.00	0.00	1.00	0.00	30.60	7.93	2.00	0.00	1.00	0.00
30.66	7.60	2.00	0.00	1.00	0.00	30.71	7.51	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
30.80	7.67	2.00	0.00	1.00	0.00	30.87	7.82	2.00	0.00	1.00	0.00
30.93	8.06	2.00	0.00	1.00	0.00	30.97	8.13	2.00	0.00	1.00	0.00
31.07	8.59	2.00	0.00	1.00	0.00	31.11	7.48	2.00	0.00	1.00	0.00
31.21	9.21	2.00	0.00	1.00	0.00	31.25	9.29	2.00	0.00	1.00	0.00
31.31	9.36	2.00	0.00	1.00	0.00	31.37	9.51	2.00	0.00	1.00	0.00
31.43	9.82	2.00	0.00	1.00	0.00	31.51	10.13	2.00	0.00	1.00	0.00
31.58	9.73	2.00	0.00	1.00	0.00	31.64	10.35	2.00	0.00	1.00	0.00
31.70	9.87	2.00	0.00	1.00	0.00	31.77	9.70	2.00	0.00	1.00	0.00
31.82	9.78	2.00	0.00	1.00	0.00	31.91	9.92	2.00	0.00	1.00	0.00
31.98	9.92	2.00	0.00	1.00	0.00	32.05	9.91	2.00	0.00	1.00	0.00
32.13	10.37	2.00	0.00	1.00	0.00	32.17	10.67	2.00	0.00	1.00	0.00
32.24	10.90	2.00	0.00	1.00	0.00	32.32	11.20	2.00	0.00	1.00	0.00
32.36	11.20	2.00	0.00	1.00	0.00	32.43	11.19	2.00	0.00	1.00	0.00
32.50	11.18	2.00	0.00	1.00	0.00	32.58	9.77	2.00	0.00	1.00	0.00
32.65	8.99	2.00	0.00	1.00	0.00	32.70	8.75	2.00	0.00	1.00	0.00
32.81	8.04	2.00	0.00	1.00	0.00	32.87	8.03	2.00	0.00	1.00	0.00
32.92	7.95	2.00	0.00	1.00	0.00	32.99	8.25	2.00	0.00	1.00	0.00
33.05	8.56	2.00	0.00	1.00	0.00	33.11	8.71	2.00	0.00	1.00	0.00
33.17	9.09	2.00	0.00	1.00	0.00	33.23	9.16	2.00	0.00	1.00	0.00
33.29	9.15	2.00	0.00	1.00	0.00	33.36	9.15	2.00	0.00	1.00	0.00
33.42	9.21	2.00	0.00	1.00	0.00	33.49	9.29	2.00	0.00	1.00	0.00
33.55	9.36	2.00	0.00	1.00	0.00	33.61	9.51	2.00	0.00	1.00	0.00
33.66	9.42	2.00	0.00	1.00	0.00	33.73	9.26	2.00	0.00	1.00	0.00
33.79	9.03	2.00	0.00	1.00	0.00	33.92	8.86	2.00	0.00	1.00	0.00
33.93	8.63	2.00	0.00	1.00	0.00	33.99	8.89	2.00	0.00	1.00	0.00
34.06	8.92	2.00	0.00	1.00	0.00	34.14	10.14	2.00	0.00	1.00	0.00
34.21	12.51	2.00	0.00	1.00	0.00	34.33	14.64	2.00	0.00	1.00	0.00
34.38	14.25	2.00	0.00	1.00	0.00	34.44	13.78	2.00	0.00	1.00	0.00
34.50	13.16	2.00	0.00	1.00	0.00	34.54	12.84	2.00	0.00	1.00	0.00
34.58	12.60	2.00	0.00	1.00	0.00	34.68	12.67	2.00	0.00	1.00	0.00
34.73	13.80	2.00	0.00	1.00	0.00	34.83	17.07	2.00	0.00	1.00	0.00
34.89	18.90	2.00	0.00	1.00	0.00	34.93	20.19	2.00	0.00	1.00	0.00
34.98	21.25	2.00	0.00	1.00	0.00	35.11	26.87	2.00	0.00	1.00	0.00
35.17	31.46	2.00	0.00	1.00	0.00	35.22	35.98	2.00	0.00	1.00	0.00
35.27	104.32	0.22	3.08	1.00	0.02	35.31	114.18	0.25	2.80	1.00	0.01
35.47	142.41	0.41	2.20	1.00	0.04	35.51	140.65	0.39	2.23	1.00	0.01
35.55	134.89	0.35	2.34	1.00	0.01	35.61	137.09	0.36	2.30	1.00	0.01
35.66	134.92	0.35	2.34	1.00	0.02	35.72	138.26	0.37	2.27	1.00	0.02
35.83	145.48	0.44	2.15	1.00	0.03	35.90	152.36	0.52	2.04	1.00	0.02
35.95	156.58	0.58	1.94	1.00	0.01	36.01	160.01	0.65	1.73	1.00	0.01
36.05	160.97	0.66	1.67	1.00	0.01	36.11	157.76	0.60	1.86	1.00	0.01
36.17	154.63	0.55	2.00	1.00	0.01	36.27	152.00	0.51	2.04	1.00	0.03
36.33	151.94	0.51	2.05	1.00	0.01	36.39	151.95	0.51	2.04	1.00	0.01
36.43	152.22	0.52	2.04	1.00	0.01	36.49	152.56	0.52	2.04	1.00	0.01
36.60	153.16	0.53	2.03	1.00	0.03	36.65	152.71	0.52	2.03	1.00	0.01
36.71	155.33	0.56	1.99	1.00	0.01	36.78	143.68	0.42	2.18	1.00	0.02
36.82	137.48	0.37	2.29	1.00	0.01	36.89	131.42	0.33	2.41	1.00	0.02
36.96	129.66	0.32	2.44	1.00	0.02	37.02	135.91	0.36	2.32	1.00	0.02

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
37.10	149.96	0.49	2.08	1.00	0.02	37.16	158.90	0.62	1.79	1.00	0.01
37.23	167.77	0.83	1.12	1.00	0.01	37.28	173.70	1.04	0.71	1.00	0.00
37.38	185.64	1.74	0.12	1.00	0.00	37.42	189.32	2.00	0.00	1.00	0.00
37.47	193.23	2.00	0.00	1.00	0.00	37.56	198.63	2.00	0.00	1.00	0.00
37.65	199.65	2.00	0.00	1.00	0.00	37.69	198.56	2.00	0.00	1.00	0.00
37.73	196.93	2.00	0.00	1.00	0.00	37.81	192.86	2.00	0.00	1.00	0.00
37.91	186.19	1.78	0.09	1.00	0.00	37.99	179.80	1.33	0.38	1.00	0.00
38.04	171.50	0.95	0.85	1.00	0.01	38.11	165.91	0.78	1.27	1.00	0.01
38.17	163.72	0.73	1.48	1.00	0.01	38.22	165.96	0.78	1.27	1.00	0.01
38.29	167.26	0.82	1.16	1.00	0.01	38.35	166.04	0.79	1.26	1.00	0.01
38.40	163.76	0.73	1.47	1.00	0.01	38.52	156.27	0.58	1.96	1.00	0.03
38.59	155.78	0.57	1.99	1.00	0.02	38.65	151.05	0.50	2.06	1.00	0.02
38.79	149.44	0.48	2.08	1.00	0.03	38.83	151.92	0.51	2.05	1.00	0.01
38.90	156.60	0.59	1.94	1.00	0.02	38.96	161.54	0.68	1.64	1.00	0.01
39.02	165.97	0.78	1.26	1.00	0.01	39.09	152.03	0.52	2.04	1.00	0.02
39.14	143.58	0.42	2.18	1.00	0.01	39.20	142.04	0.41	2.21	1.00	0.02
39.27	141.95	0.41	2.21	1.00	0.02	39.34	142.27	0.41	2.20	1.00	0.02
39.40	141.03	0.40	2.22	1.00	0.02	39.45	144.04	0.43	2.17	1.00	0.01
39.52	140.89	0.40	2.23	1.00	0.02	39.58	141.34	0.40	2.22	1.00	0.02
39.69	148.50	0.47	2.10	1.00	0.03	39.71	149.59	0.49	2.08	1.00	0.00
39.80	155.80	0.57	1.99	1.00	0.02	39.84	157.76	0.61	1.86	1.00	0.01
39.92	162.22	0.69	1.60	1.00	0.02	39.98	163.71	0.73	1.47	1.00	0.01
40.03	164.45	0.75	1.40	1.00	0.01	40.13	164.10	0.74	1.43	1.00	0.02
40.18	163.63	0.73	1.48	1.00	0.01	40.27	161.75	0.68	1.63	1.00	0.02
40.35	158.93	0.63	1.79	1.00	0.02	40.40	157.13	0.60	1.90	1.00	0.01
40.44	154.57	0.55	2.01	1.00	0.01	40.54	148.12	0.47	2.11	1.00	0.02
40.59	144.47	0.43	2.17	1.00	0.01	40.67	139.14	0.38	2.26	1.00	0.02
40.72	136.96	0.37	2.30	1.00	0.01	40.78	133.63	0.34	2.36	1.00	0.02
40.82	131.28	0.33	2.41	1.00	0.01	40.93	125.88	0.30	2.52	1.00	0.03
40.97	123.24	0.29	2.58	1.00	0.01	41.06	120.63	0.28	2.64	1.00	0.03
41.10	119.41	0.27	2.67	1.00	0.02	41.16	116.88	0.26	2.73	1.00	0.02
41.23	113.53	0.25	2.82	1.00	0.02	41.28	111.11	0.24	2.88	1.00	0.02
41.35	109.79	0.24	2.92	1.00	0.02	41.41	111.10	0.24	2.88	1.00	0.02
41.47	110.28	0.24	2.90	1.00	0.02	41.54	111.37	0.24	2.87	1.00	0.02
41.66	129.81	0.32	2.44	1.00	0.03	41.72	138.47	0.38	2.27	1.00	0.02
41.78	117.51	0.27	2.72	1.00	0.02	41.85	107.93	0.23	2.97	1.00	0.02
41.90	112.30	0.25	2.85	1.00	0.02	41.97	117.81	0.27	2.71	1.00	0.02
42.03	120.41	0.28	2.65	1.00	0.02	42.08	121.71	0.28	2.61	1.00	0.02
42.14	130.95	0.33	2.42	1.00	0.02	42.20	144.89	0.44	2.16	1.00	0.02
42.28	150.93	0.51	2.06	1.00	0.02	42.33	148.22	0.47	2.10	1.00	0.01
42.41	136.20	0.36	2.31	1.00	0.02	42.51	118.04	0.27	2.70	1.00	0.03
42.59	37.73	2.00	0.00	1.00	0.00	42.66	33.77	2.00	0.00	1.00	0.00
42.70	32.47	2.00	0.00	1.00	0.00	42.77	30.88	2.00	0.00	1.00	0.00
42.82	34.42	2.00	0.00	1.00	0.00	42.87	104.89	0.23	3.06	1.00	0.02
42.92	112.59	0.25	2.84	1.00	0.02	42.98	117.79	0.27	2.71	1.00	0.02
43.09	120.90	0.28	2.63	1.00	0.03	43.17	117.96	0.27	2.70	1.00	0.02
43.23	116.58	0.26	2.74	1.00	0.02	43.30	114.61	0.26	2.79	1.00	0.02
43.35	111.66	0.25	2.87	1.00	0.02	43.43	105.89	0.23	3.03	1.00	0.03

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
43.48	99.45	0.21	3.23	1.00	0.02	43.53	32.44	2.00	0.00	1.00	0.00
43.61	28.12	2.00	0.00	1.00	0.00	43.65	25.59	2.00	0.00	1.00	0.00
43.72	22.99	2.00	0.00	1.00	0.00	43.78	19.93	2.00	0.00	1.00	0.00
43.85	18.25	2.00	0.00	1.00	0.00	43.91	17.34	2.00	0.00	1.00	0.00
43.97	16.16	2.00	0.00	1.00	0.00	44.09	15.31	2.00	0.00	1.00	0.00
44.15	15.78	2.00	0.00	1.00	0.00	44.22	15.84	2.00	0.00	1.00	0.00
44.26	15.43	2.00	0.00	1.00	0.00	44.32	15.36	2.00	0.00	1.00	0.00
44.39	14.73	2.00	0.00	1.00	0.00	44.44	17.18	2.00	0.00	1.00	0.00
44.53	16.82	2.00	0.00	1.00	0.00	44.58	16.00	2.00	0.00	1.00	0.00
44.62	15.96	2.00	0.00	1.00	0.00	44.71	15.91	2.00	0.00	1.00	0.00
44.75	17.75	2.00	0.00	1.00	0.00	44.84	19.30	2.00	0.00	1.00	0.00
44.88	19.09	2.00	0.00	1.00	0.00	44.97	18.26	2.00	0.00	1.00	0.00
45.02	18.87	2.00	0.00	1.00	0.00	45.12	20.01	2.00	0.00	1.00	0.00
45.19	20.89	2.00	0.00	1.00	0.00	45.24	21.70	2.00	0.00	1.00	0.00
45.28	22.45	2.00	0.00	1.00	0.00	45.40	24.22	2.00	0.00	1.00	0.00
45.45	24.75	2.00	0.00	1.00	0.00	45.50	25.36	2.00	0.00	1.00	0.00
45.54	26.11	2.00	0.00	1.00	0.00	45.64	26.22	2.00	0.00	1.00	0.00
45.69	27.39	2.00	0.00	1.00	0.00	45.81	29.71	2.00	0.00	1.00	0.00
45.85	31.72	2.00	0.00	1.00	0.00	45.89	34.21	2.00	0.00	1.00	0.00
45.94	37.54	2.00	0.00	1.00	0.00	46.04	52.90	2.00	0.00	1.00	0.00
46.10	130.69	0.33	2.42	1.00	0.02	46.15	140.42	0.40	2.24	1.00	0.01
46.20	144.01	0.43	2.17	1.00	0.01	46.29	131.42	0.34	2.41	1.00	0.03
46.44	129.03	0.32	2.45	1.00	0.04	46.49	118.43	0.27	2.69	1.00	0.01
46.55	124.61	0.30	2.55	1.00	0.02	46.60	128.99	0.32	2.46	1.00	0.01
46.64	130.09	0.33	2.43	1.00	0.01	46.70	123.63	0.30	2.57	1.00	0.02
46.75	123.92	0.30	2.56	1.00	0.02	46.80	125.03	0.30	2.54	1.00	0.01
46.86	125.22	0.30	2.54	1.00	0.02	46.95	120.00	0.28	2.66	1.00	0.03
47.05	111.97	0.25	2.86	1.00	0.03	47.11	107.04	0.24	3.00	1.00	0.02
47.17	103.98	0.23	3.09	1.00	0.02	47.21	99.27	0.22	3.24	1.00	0.02
47.30	28.41	2.00	0.00	1.00	0.00	47.36	24.21	2.00	0.00	1.00	0.00
47.39	19.51	2.00	0.00	1.00	0.00	47.47	16.83	2.00	0.00	1.00	0.00
47.51	15.89	2.00	0.00	1.00	0.00	47.61	16.27	2.00	0.00	1.00	0.00
47.66	17.80	2.00	0.00	1.00	0.00	47.76	19.58	2.00	0.00	1.00	0.00
47.81	19.64	2.00	0.00	1.00	0.00	47.85	21.97	2.00	0.00	1.00	0.00
47.95	26.12	2.00	0.00	1.00	0.00	48.01	26.84	2.00	0.00	1.00	0.00
48.06	26.68	2.00	0.00	1.00	0.00	48.11	25.53	2.00	0.00	1.00	0.00
48.16	24.04	2.00	0.00	1.00	0.00	48.25	20.55	2.00	0.00	1.00	0.00
48.31	18.87	2.00	0.00	1.00	0.00	48.39	18.32	2.00	0.00	1.00	0.00
48.46	22.38	2.00	0.00	1.00	0.00	48.52	29.36	2.00	0.00	1.00	0.00
48.60	110.57	0.25	2.90	1.00	0.03	48.65	120.89	0.29	2.63	1.00	0.02
48.70	132.13	0.34	2.39	1.00	0.02	48.81	145.24	0.45	2.15	1.00	0.03
48.87	148.94	0.49	2.09	1.00	0.01	48.91	151.86	0.53	2.05	1.00	0.01
48.96	153.32	0.55	2.02	1.00	0.01	49.06	156.49	0.60	1.94	1.00	0.02
49.12	155.77	0.58	1.99	1.00	0.01	49.17	152.78	0.54	2.03	1.00	0.01
49.22	148.24	0.48	2.10	1.00	0.01	49.32	144.43	0.44	2.17	1.00	0.02
49.39	141.03	0.41	2.22	1.00	0.02	49.43	138.42	0.39	2.27	1.00	0.01
49.48	137.14	0.38	2.30	1.00	0.01	49.58	130.21	0.33	2.43	1.00	0.03
49.64	126.81	0.31	2.50	1.00	0.02	49.68	118.85	0.28	2.68	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
49.78	119.72	0.28	2.66	1.00	0.03	49.83	114.94	0.26	2.78	1.00	0.02
49.93	45.58	2.00	0.00	1.00	0.00	49.97	42.86	2.00	0.00	1.00	0.00
50.01	39.54	2.00	0.00	1.00	0.00	50.09	31.88	2.00	0.00	1.00	0.00
50.13	28.63	2.00	0.00	1.00	0.00	50.22	22.95	2.00	0.00	1.00	0.00

Total estimated settlement: 7.62

Abbreviations

$Q_{tn,cs}$:	Equivalent clean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

:: Post-earthquake settlement due to soil liquefaction ::

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
5.04	153.24	0.92	1.07	1.00	0.02	5.09	152.25	0.89	1.16	1.00	0.01
5.16	152.18	0.88	1.18	1.00	0.01	5.27	151.76	0.86	1.24	1.00	0.02
5.35	149.99	0.82	1.42	1.00	0.01	5.39	148.23	0.78	1.61	1.00	0.01
5.48	145.62	0.73	1.98	1.00	0.02	5.52	142.36	0.67	2.20	1.00	0.01
5.59	139.79	0.63	2.25	1.00	0.02	5.65	137.53	0.60	2.29	1.00	0.02
5.71	135.23	0.57	2.33	1.00	0.02	5.83	132.16	0.53	2.39	1.00	0.03
5.92	130.90	0.52	2.42	1.00	0.02	5.96	130.53	0.51	2.42	1.00	0.01
6.03	129.99	0.50	2.43	1.00	0.02	6.09	129.61	0.50	2.44	1.00	0.02
6.15	128.80	0.49	2.46	1.00	0.02	6.23	127.57	0.48	2.49	1.00	0.02
6.29	126.52	0.46	2.51	1.00	0.02	6.36	125.77	0.46	2.52	1.00	0.02
6.41	125.02	0.45	2.54	1.00	0.02	6.49	123.41	0.44	2.58	1.00	0.02
6.54	122.29	0.43	2.60	1.00	0.02	6.62	120.73	0.41	2.64	1.00	0.03
6.67	120.14	0.41	2.65	1.00	0.01	6.73	119.66	0.41	2.66	1.00	0.02
6.80	117.61	0.39	2.71	1.00	0.02	6.86	114.34	0.37	2.80	1.00	0.02
6.93	109.92	0.35	2.91	1.00	0.03	6.99	103.38	0.32	3.11	1.00	0.02
7.06	96.92	0.30	3.32	1.00	0.03	7.11	90.34	0.28	3.56	1.00	0.02
7.20	85.02	0.27	3.78	1.00	0.04	7.25	82.15	0.26	3.91	1.00	0.02
7.29	83.52	0.26	3.85	1.00	0.02	7.36	84.66	0.26	3.79	1.00	0.04
7.46	84.29	0.26	3.81	1.00	0.05	7.52	86.25	0.26	3.73	1.00	0.03
7.58	89.49	0.27	3.59	1.00	0.03	7.64	92.16	0.28	3.49	1.00	0.02
7.70	94.06	0.28	3.42	1.00	0.03	7.77	95.63	0.28	3.36	1.00	0.03
7.81	96.70	0.29	3.32	1.00	0.02	7.90	98.30	0.29	3.27	1.00	0.03
7.95	99.29	0.29	3.24	1.00	0.02	8.01	100.37	0.30	3.20	1.00	0.02
8.08	101.29	0.30	3.17	1.00	0.03	8.19	100.77	0.29	3.19	1.00	0.04
8.25	100.04	0.29	3.21	1.00	0.03	8.32	98.83	0.29	3.25	1.00	0.03
8.38	97.10	0.28	3.31	1.00	0.02	8.44	95.06	0.27	3.38	1.00	0.02
8.52	92.46	0.27	3.48	1.00	0.03	8.56	92.19	0.26	3.49	1.00	0.02
8.65	91.22	0.26	3.53	1.00	0.04	8.70	90.84	0.26	3.54	1.00	0.02
8.77	99.65	0.28	3.22	1.00	0.03	8.82	101.96	0.29	3.15	1.00	0.02
8.95	99.02	0.28	3.25	1.00	0.05	9.00	103.94	0.29	3.09	1.00	0.02
9.09	107.13	0.30	2.99	1.00	0.03	9.13	108.96	0.31	2.94	1.00	0.02
9.20	110.12	0.31	2.91	1.00	0.02	9.26	111.18	0.32	2.88	1.00	0.02
9.32	111.04	0.32	2.88	1.00	0.02	9.39	110.25	0.31	2.90	1.00	0.02
9.44	109.19	0.31	2.93	1.00	0.02	9.52	108.48	0.30	2.95	1.00	0.03
9.57	107.94	0.30	2.97	1.00	0.02	9.75	105.00	0.29	3.06	1.00	0.06
9.82	104.88	0.29	3.06	1.00	0.02	9.88	104.91	0.29	3.06	1.00	0.02
9.97	106.06	0.29	3.02	1.00	0.03	10.07	113.29	0.32	2.82	1.00	0.04
10.15	117.58	0.34	2.71	1.00	0.02	10.20	109.27	0.30	2.93	1.00	0.02
10.28	102.64	0.28	3.13	1.00	0.03	10.32	97.25	0.26	3.31	1.00	0.02
10.40	90.32	0.24	3.56	1.00	0.03	10.46	84.42	0.23	3.81	1.00	0.02
10.50	20.37	2.00	0.00	1.00	0.00	10.51	17.89	2.00	0.00	1.00	0.00
10.59	18.22	2.00	0.00	1.00	0.00	10.64	16.80	2.00	0.00	1.00	0.00
10.73	13.91	2.00	0.00	1.00	0.00	10.79	13.05	2.00	0.00	1.00	0.00
10.84	13.17	2.00	0.00	1.00	0.00	10.90	12.80	2.00	0.00	1.00	0.00
10.99	12.06	2.00	0.00	1.00	0.00	11.06	11.45	2.00	0.00	1.00	0.00
11.12	10.83	2.00	0.00	1.00	0.00	11.16	10.33	2.00	0.00	1.00	0.00
11.27	10.71	2.00	0.00	1.00	0.00	11.31	10.65	2.00	0.00	1.00	0.00
11.38	11.22	2.00	0.00	1.00	0.00	11.43	11.92	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
11.58	13.51	2.00	0.00	1.00	0.00	11.65	13.84	2.00	0.00	1.00	0.00
11.70	13.82	2.00	0.00	1.00	0.00	11.74	13.80	2.00	0.00	1.00	0.00
11.79	13.79	2.00	0.00	1.00	0.00	11.84	14.47	2.00	0.00	1.00	0.00
11.91	15.60	2.00	0.00	1.00	0.00	11.95	17.30	2.00	0.00	1.00	0.00
12.01	18.54	2.00	0.00	1.00	0.00	12.09	19.29	2.00	0.00	1.00	0.00
12.21	19.12	2.00	0.00	1.00	0.00	12.27	19.31	2.00	0.00	1.00	0.00
12.35	19.84	2.00	0.00	1.00	0.00	12.40	20.27	2.00	0.00	1.00	0.00
12.45	21.35	2.00	0.00	1.00	0.00	12.53	22.98	2.00	0.00	1.00	0.00
12.60	23.83	2.00	0.00	1.00	0.00	12.72	22.67	2.00	0.00	1.00	0.00
12.79	22.18	2.00	0.00	1.00	0.00	12.84	78.45	0.20	4.08	1.00	0.02
12.89	78.58	0.20	4.08	1.00	0.03	12.97	79.48	0.20	4.03	1.00	0.04
13.03	81.63	0.20	3.93	1.00	0.03	13.10	83.30	0.21	3.86	1.00	0.03
13.15	82.30	0.20	3.90	1.00	0.02	13.20	79.73	0.20	4.02	1.00	0.02
13.27	76.46	0.19	4.19	1.00	0.04	13.32	17.60	2.00	0.00	1.00	0.00
13.45	12.95	2.00	0.00	1.00	0.00	13.50	12.50	2.00	0.00	1.00	0.00
13.57	11.92	2.00	0.00	1.00	0.00	13.63	10.89	2.00	0.00	1.00	0.00
13.68	10.20	2.00	0.00	1.00	0.00	13.75	10.08	2.00	0.00	1.00	0.00
13.87	9.84	2.00	0.00	1.00	0.00	13.94	9.83	2.00	0.00	1.00	0.00
13.99	9.82	2.00	0.00	1.00	0.00	14.06	9.81	2.00	0.00	1.00	0.00
14.11	10.02	2.00	0.00	1.00	0.00	14.19	10.23	2.00	0.00	1.00	0.00
14.24	10.78	2.00	0.00	1.00	0.00	14.31	12.01	2.00	0.00	1.00	0.00
14.37	12.09	2.00	0.00	1.00	0.00	14.43	12.74	2.00	0.00	1.00	0.00
14.51	13.29	2.00	0.00	1.00	0.00	14.55	14.94	2.00	0.00	1.00	0.00
14.62	14.70	2.00	0.00	1.00	0.00	14.68	15.02	2.00	0.00	1.00	0.00
14.76	14.55	2.00	0.00	1.00	0.00	14.82	14.20	2.00	0.00	1.00	0.00
14.89	13.85	2.00	0.00	1.00	0.00	14.95	13.29	2.00	0.00	1.00	0.00
15.07	12.59	2.00	0.00	1.00	0.00	15.13	12.25	2.00	0.00	1.00	0.00
15.21	11.68	2.00	0.00	1.00	0.00	15.26	10.89	2.00	0.00	1.00	0.00
15.32	11.71	2.00	0.00	1.00	0.00	15.39	11.43	2.00	0.00	1.00	0.00
15.44	11.75	2.00	0.00	1.00	0.00	15.49	12.07	2.00	0.00	1.00	0.00
15.56	11.73	2.00	0.00	1.00	0.00	15.61	11.72	2.00	0.00	1.00	0.00
15.69	11.38	2.00	0.00	1.00	0.00	15.74	11.14	2.00	0.00	1.00	0.00
15.82	10.69	2.00	0.00	1.00	0.00	15.87	10.24	2.00	0.00	1.00	0.00
15.94	10.12	2.00	0.00	1.00	0.00	16.05	9.67	2.00	0.00	1.00	0.00
16.13	9.21	2.00	0.00	1.00	0.00	16.18	8.77	2.00	0.00	1.00	0.00
16.24	8.43	2.00	0.00	1.00	0.00	16.31	8.52	2.00	0.00	1.00	0.00
16.38	7.97	2.00	0.00	1.00	0.00	16.42	8.08	2.00	0.00	1.00	0.00
16.52	8.06	2.00	0.00	1.00	0.00	16.56	8.06	2.00	0.00	1.00	0.00
16.62	8.59	2.00	0.00	1.00	0.00	16.69	8.47	2.00	0.00	1.00	0.00
16.74	8.46	2.00	0.00	1.00	0.00	16.86	8.67	2.00	0.00	1.00	0.00
16.93	8.76	2.00	0.00	1.00	0.00	17.00	8.97	2.00	0.00	1.00	0.00
17.05	9.29	2.00	0.00	1.00	0.00	17.13	9.60	2.00	0.00	1.00	0.00
17.18	9.69	2.00	0.00	1.00	0.00	17.24	10.32	2.00	0.00	1.00	0.00
17.30	11.07	2.00	0.00	1.00	0.00	17.36	11.69	2.00	0.00	1.00	0.00
17.43	12.40	2.00	0.00	1.00	0.00	17.48	13.66	2.00	0.00	1.00	0.00
17.54	14.79	2.00	0.00	1.00	0.00	17.61	15.60	2.00	0.00	1.00	0.00
17.66	15.90	2.00	0.00	1.00	0.00	17.73	17.13	2.00	0.00	1.00	0.00
17.79	18.55	2.00	0.00	1.00	0.00	17.92	17.78	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
17.98	18.06	2.00	0.00	1.00	0.00	18.05	19.67	2.00	0.00	1.00	0.00
18.11	20.99	2.00	0.00	1.00	0.00	18.18	22.58	2.00	0.00	1.00	0.00
18.23	26.51	2.00	0.00	1.00	0.00	18.28	92.45	0.20	3.48	1.00	0.02
18.36	96.90	0.21	3.32	1.00	0.03	18.45	92.52	0.20	3.48	1.00	0.03
18.51	22.63	2.00	0.00	1.00	0.00	18.58	17.11	2.00	0.00	1.00	0.00
18.63	13.93	2.00	0.00	1.00	0.00	18.71	11.13	2.00	0.00	1.00	0.00
18.76	9.68	2.00	0.00	1.00	0.00	18.83	9.46	2.00	0.00	1.00	0.00
18.89	9.76	2.00	0.00	1.00	0.00	18.95	9.85	2.00	0.00	1.00	0.00
19.02	10.25	2.00	0.00	1.00	0.00	19.08	10.86	2.00	0.00	1.00	0.00
19.15	11.76	2.00	0.00	1.00	0.00	19.20	12.87	2.00	0.00	1.00	0.00
19.27	14.48	2.00	0.00	1.00	0.00	19.33	15.98	2.00	0.00	1.00	0.00
19.41	16.78	2.00	0.00	1.00	0.00	19.46	19.07	2.00	0.00	1.00	0.00
19.54	22.52	2.00	0.00	1.00	0.00	19.63	22.26	2.00	0.00	1.00	0.00
19.67	27.97	2.00	0.00	1.00	0.00	19.73	92.14	0.20	3.49	1.00	0.02
19.78	94.17	0.20	3.41	1.00	0.02	19.84	95.38	0.21	3.37	1.00	0.03
19.89	96.08	0.21	3.35	1.00	0.02	20.02	97.41	0.21	3.30	1.00	0.05
20.07	98.19	0.21	3.27	1.00	0.02	20.15	98.40	0.21	3.27	1.00	0.03
20.20	98.94	0.21	3.25	1.00	0.02	20.28	99.78	0.22	3.22	1.00	0.03
20.33	101.14	0.22	3.18	1.00	0.02	20.41	102.84	0.22	3.12	1.00	0.03
20.46	104.76	0.23	3.06	1.00	0.02	20.53	106.10	0.23	3.02	1.00	0.02
20.58	106.57	0.23	3.01	1.00	0.02	20.64	107.15	0.24	2.99	1.00	0.02
20.69	107.72	0.24	2.98	1.00	0.02	20.77	107.56	0.24	2.98	1.00	0.03
20.83	107.57	0.24	2.98	1.00	0.02	20.90	108.20	0.24	2.96	1.00	0.02
21.03	110.47	0.24	2.90	1.00	0.05	21.08	110.80	0.25	2.89	1.00	0.02
21.15	110.16	0.24	2.91	1.00	0.03	21.21	110.10	0.24	2.91	1.00	0.02
21.34	108.54	0.24	2.95	1.00	0.05	21.39	109.13	0.24	2.94	1.00	0.02
21.46	109.14	0.24	2.94	1.00	0.03	21.52	108.56	0.24	2.95	1.00	0.02
21.59	108.41	0.24	2.96	1.00	0.03	21.65	108.32	0.24	2.96	1.00	0.02
21.72	108.16	0.24	2.96	1.00	0.02	21.78	108.90	0.24	2.94	1.00	0.02
21.83	108.29	0.24	2.96	1.00	0.02	21.91	106.44	0.23	3.01	1.00	0.03
21.97	104.86	0.23	3.06	1.00	0.02	22.05	105.21	0.23	3.05	1.00	0.03
22.10	104.73	0.23	3.06	1.00	0.02	22.17	103.25	0.22	3.11	1.00	0.02
22.22	100.30	0.21	3.20	1.00	0.02	22.31	96.63	0.21	3.33	1.00	0.03
22.35	93.41	0.20	3.44	1.00	0.02	22.42	90.37	0.19	3.56	1.00	0.03
22.49	27.53	2.00	0.00	1.00	0.00	22.53	22.34	2.00	0.00	1.00	0.00
22.60	27.95	2.00	0.00	1.00	0.00	22.66	23.05	2.00	0.00	1.00	0.00
22.72	28.37	2.00	0.00	1.00	0.00	22.84	102.39	0.22	3.14	1.00	0.04
22.88	106.47	0.23	3.01	1.00	0.02	22.94	107.08	0.23	2.99	1.00	0.02
23.00	105.17	0.23	3.05	1.00	0.02	23.05	102.05	0.22	3.15	1.00	0.02
23.19	28.86	2.00	0.00	1.00	0.00	23.23	24.30	2.00	0.00	1.00	0.00
23.27	20.84	2.00	0.00	1.00	0.00	23.32	18.12	2.00	0.00	1.00	0.00
23.37	15.39	2.00	0.00	1.00	0.00	23.45	13.39	2.00	0.00	1.00	0.00
23.54	11.97	2.00	0.00	1.00	0.00	23.58	11.59	2.00	0.00	1.00	0.00
23.65	11.02	2.00	0.00	1.00	0.00	23.71	10.54	2.00	0.00	1.00	0.00
23.76	10.05	2.00	0.00	1.00	0.00	23.86	8.91	2.00	0.00	1.00	0.00
23.94	8.82	2.00	0.00	1.00	0.00	24.06	9.17	2.00	0.00	1.00	0.00
24.12	9.27	2.00	0.00	1.00	0.00	24.17	9.44	2.00	0.00	1.00	0.00
24.24	9.72	2.00	0.00	1.00	0.00	24.32	10.19	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
24.37	10.36	2.00	0.00	1.00	0.00	24.42	10.45	2.00	0.00	1.00	0.00
24.51	10.44	2.00	0.00	1.00	0.00	24.55	10.62	2.00	0.00	1.00	0.00
24.62	10.60	2.00	0.00	1.00	0.00	24.69	10.69	2.00	0.00	1.00	0.00
24.74	10.68	2.00	0.00	1.00	0.00	24.82	10.85	2.00	0.00	1.00	0.00
24.86	11.12	2.00	0.00	1.00	0.00	24.94	11.84	2.00	0.00	1.00	0.00
25.06	14.11	2.00	0.00	1.00	0.00	25.12	17.51	2.00	0.00	1.00	0.00
25.20	21.58	2.00	0.00	1.00	0.00	25.26	86.03	0.18	3.74	1.00	0.03
25.32	92.21	0.19	3.49	1.00	0.02	25.39	97.99	0.20	3.28	1.00	0.03
25.41	96.43	0.20	3.33	1.00	0.01	25.49	103.03	0.22	3.12	1.00	0.03
25.55	104.56	0.22	3.07	1.00	0.02	25.63	108.94	0.23	2.94	1.00	0.03
25.68	111.28	0.24	2.88	1.00	0.02	25.75	114.10	0.25	2.80	1.00	0.02
25.85	119.65	0.27	2.66	1.00	0.03	25.90	122.05	0.28	2.61	1.00	0.01
25.94	123.88	0.29	2.57	1.00	0.01	25.99	124.14	0.29	2.56	1.00	0.02
26.11	108.73	0.23	2.95	1.00	0.04	26.16	102.92	0.22	3.12	1.00	0.02
26.21	102.04	0.21	3.15	1.00	0.02	26.26	102.60	0.21	3.13	1.00	0.02
26.32	104.40	0.22	3.07	1.00	0.03	26.38	105.98	0.22	3.03	1.00	0.02
26.48	102.26	0.21	3.14	1.00	0.04	26.53	98.67	0.21	3.26	1.00	0.02
26.65	92.02	0.19	3.49	1.00	0.05	26.69	89.14	0.19	3.61	1.00	0.02
26.76	85.70	0.18	3.75	1.00	0.03	26.81	23.42	2.00	0.00	1.00	0.00
26.86	19.48	2.00	0.00	1.00	0.00	26.93	16.08	2.00	0.00	1.00	0.00
26.99	13.57	2.00	0.00	1.00	0.00	27.04	12.05	2.00	0.00	1.00	0.00
27.16	9.71	2.00	0.00	1.00	0.00	27.22	9.07	2.00	0.00	1.00	0.00
27.28	8.53	2.00	0.00	1.00	0.00	27.35	8.61	2.00	0.00	1.00	0.00
27.39	8.61	2.00	0.00	1.00	0.00	27.44	9.31	2.00	0.00	1.00	0.00
27.52	9.74	2.00	0.00	1.00	0.00	27.57	9.83	2.00	0.00	1.00	0.00
27.63	9.99	2.00	0.00	1.00	0.00	27.70	9.98	2.00	0.00	1.00	0.00
27.77	9.97	2.00	0.00	1.00	0.00	27.84	9.96	2.00	0.00	1.00	0.00
27.90	10.04	2.00	0.00	1.00	0.00	27.96	10.21	2.00	0.00	1.00	0.00
28.10	10.72	2.00	0.00	1.00	0.00	28.14	11.41	2.00	0.00	1.00	0.00
28.22	11.76	2.00	0.00	1.00	0.00	28.27	12.10	2.00	0.00	1.00	0.00
28.34	12.36	2.00	0.00	1.00	0.00	28.40	12.34	2.00	0.00	1.00	0.00
28.45	11.28	2.00	0.00	1.00	0.00	28.51	10.66	2.00	0.00	1.00	0.00
28.57	10.91	2.00	0.00	1.00	0.00	28.65	10.90	2.00	0.00	1.00	0.00
28.70	10.89	2.00	0.00	1.00	0.00	28.74	10.88	2.00	0.00	1.00	0.00
28.82	10.87	2.00	0.00	1.00	0.00	28.88	10.51	2.00	0.00	1.00	0.00
28.97	10.06	2.00	0.00	1.00	0.00	29.00	9.80	2.00	0.00	1.00	0.00
29.09	9.62	2.00	0.00	1.00	0.00	29.17	9.17	2.00	0.00	1.00	0.00
29.22	9.34	2.00	0.00	1.00	0.00	29.27	9.33	2.00	0.00	1.00	0.00
29.34	9.41	2.00	0.00	1.00	0.00	29.44	9.22	2.00	0.00	1.00	0.00
29.52	8.87	2.00	0.00	1.00	0.00	29.57	8.68	2.00	0.00	1.00	0.00
29.70	8.50	2.00	0.00	1.00	0.00	29.76	8.40	2.00	0.00	1.00	0.00
29.83	8.23	2.00	0.00	1.00	0.00	29.88	8.13	2.00	0.00	1.00	0.00
29.97	8.12	2.00	0.00	1.00	0.00	30.01	8.04	2.00	0.00	1.00	0.00
30.10	8.03	2.00	0.00	1.00	0.00	30.14	8.03	2.00	0.00	1.00	0.00
30.21	8.19	2.00	0.00	1.00	0.00	30.27	8.53	2.00	0.00	1.00	0.00
30.41	8.85	2.00	0.00	1.00	0.00	30.45	8.77	2.00	0.00	1.00	0.00
30.54	8.58	2.00	0.00	1.00	0.00	30.59	8.58	2.00	0.00	1.00	0.00
30.66	8.91	2.00	0.00	1.00	0.00	30.72	9.33	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
30.80	9.41	2.00	0.00	1.00	0.00	30.85	9.41	2.00	0.00	1.00	0.00
30.92	9.40	2.00	0.00	1.00	0.00	30.98	9.73	2.00	0.00	1.00	0.00
31.06	10.40	2.00	0.00	1.00	0.00	31.11	11.16	2.00	0.00	1.00	0.00
31.20	11.31	2.00	0.00	1.00	0.00	31.24	11.65	2.00	0.00	1.00	0.00
31.31	11.72	2.00	0.00	1.00	0.00	31.37	11.12	2.00	0.00	1.00	0.00
31.50	10.67	2.00	0.00	1.00	0.00	31.56	10.75	2.00	0.00	1.00	0.00
31.60	10.66	2.00	0.00	1.00	0.00	31.64	9.98	2.00	0.00	1.00	0.00
31.72	10.56	2.00	0.00	1.00	0.00	31.78	10.47	2.00	0.00	1.00	0.00
31.86	10.46	2.00	0.00	1.00	0.00	31.89	10.37	2.00	0.00	1.00	0.00
32.00	9.68	2.00	0.00	1.00	0.00	32.03	9.42	2.00	0.00	1.00	0.00
32.12	9.34	2.00	0.00	1.00	0.00	32.17	9.33	2.00	0.00	1.00	0.00
32.26	9.07	2.00	0.00	1.00	0.00	32.31	9.06	2.00	0.00	1.00	0.00
32.39	9.05	2.00	0.00	1.00	0.00	32.44	9.05	2.00	0.00	1.00	0.00
32.51	9.29	2.00	0.00	1.00	0.00	32.56	9.20	2.00	0.00	1.00	0.00
32.70	10.68	2.00	0.00	1.00	0.00	32.74	11.68	2.00	0.00	1.00	0.00
32.80	12.58	2.00	0.00	1.00	0.00	32.85	13.57	2.00	0.00	1.00	0.00
32.91	14.13	2.00	0.00	1.00	0.00	32.98	14.78	2.00	0.00	1.00	0.00
33.05	15.26	2.00	0.00	1.00	0.00	33.09	15.18	2.00	0.00	1.00	0.00
33.17	15.08	2.00	0.00	1.00	0.00	33.22	14.57	2.00	0.00	1.00	0.00
33.27	13.81	2.00	0.00	1.00	0.00	33.40	12.80	2.00	0.00	1.00	0.00
33.49	10.89	2.00	0.00	1.00	0.00	33.53	10.56	2.00	0.00	1.00	0.00
33.62	10.37	2.00	0.00	1.00	0.00	33.66	10.37	2.00	0.00	1.00	0.00
33.75	10.35	2.00	0.00	1.00	0.00	33.81	10.35	2.00	0.00	1.00	0.00
33.90	10.34	2.00	0.00	1.00	0.00	33.94	10.33	2.00	0.00	1.00	0.00
34.03	10.81	2.00	0.00	1.00	0.00	34.09	11.29	2.00	0.00	1.00	0.00
34.15	11.70	2.00	0.00	1.00	0.00	34.20	11.20	2.00	0.00	1.00	0.00
34.28	12.00	2.00	0.00	1.00	0.00	34.35	12.08	2.00	0.00	1.00	0.00
34.39	11.66	2.00	0.00	1.00	0.00	34.48	11.81	2.00	0.00	1.00	0.00
34.57	13.02	2.00	0.00	1.00	0.00	34.62	13.66	2.00	0.00	1.00	0.00
34.69	15.18	2.00	0.00	1.00	0.00	34.74	16.15	2.00	0.00	1.00	0.00
34.78	17.52	2.00	0.00	1.00	0.00	34.86	21.16	2.00	0.00	1.00	0.00
34.91	22.59	2.00	0.00	1.00	0.00	35.00	25.24	2.00	0.00	1.00	0.00
35.05	26.11	2.00	0.00	1.00	0.00	35.13	27.54	2.00	0.00	1.00	0.00
35.18	27.44	2.00	0.00	1.00	0.00	35.26	23.77	2.00	0.00	1.00	0.00
35.31	21.58	2.00	0.00	1.00	0.00	35.40	19.06	2.00	0.00	1.00	0.00
35.44	21.74	2.00	0.00	1.00	0.00	35.53	20.30	2.00	0.00	1.00	0.00
35.58	21.89	2.00	0.00	1.00	0.00	35.67	24.52	2.00	0.00	1.00	0.00
35.75	26.74	2.00	0.00	1.00	0.00	35.78	27.53	2.00	0.00	1.00	0.00
35.83	28.72	2.00	0.00	1.00	0.00	35.92	29.41	2.00	0.00	1.00	0.00
36.01	28.00	2.00	0.00	1.00	0.00	36.05	28.07	2.00	0.00	1.00	0.00
36.09	28.05	2.00	0.00	1.00	0.00	36.17	28.11	2.00	0.00	1.00	0.00
36.24	28.32	2.00	0.00	1.00	0.00	36.31	28.21	2.00	0.00	1.00	0.00
36.36	28.75	2.00	0.00	1.00	0.00	36.44	29.51	2.00	0.00	1.00	0.00
36.50	29.57	2.00	0.00	1.00	0.00	36.57	30.02	2.00	0.00	1.00	0.00
36.66	33.01	2.00	0.00	1.00	0.00	36.71	35.69	2.00	0.00	1.00	0.00
36.77	102.63	0.21	3.13	1.00	0.02	36.84	109.30	0.23	2.93	1.00	0.02
36.93	124.30	0.28	2.56	1.00	0.03	37.02	125.57	0.29	2.53	1.00	0.03
37.07	123.60	0.28	2.57	1.00	0.02	37.10	123.73	0.28	2.57	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
37.19	119.47	0.26	2.67	1.00	0.03	37.22	118.10	0.26	2.70	1.00	0.01
37.29	119.48	0.26	2.67	1.00	0.02	37.34	122.02	0.27	2.61	1.00	0.02
37.44	130.41	0.31	2.43	1.00	0.03	37.51	135.02	0.34	2.34	1.00	0.02
37.56	134.31	0.34	2.35	1.00	0.01	37.61	130.35	0.31	2.43	1.00	0.01
37.73	116.91	0.25	2.73	1.00	0.04	37.78	110.91	0.23	2.89	1.00	0.02
37.84	106.84	0.22	3.00	1.00	0.02	37.91	40.87	2.00	0.00	1.00	0.00
37.97	38.32	2.00	0.00	1.00	0.00	38.05	37.41	2.00	0.00	1.00	0.00
38.09	99.53	0.21	3.23	1.00	0.02	38.17	99.42	0.21	3.23	1.00	0.03
38.22	100.37	0.21	3.20	1.00	0.02	38.27	100.89	0.21	3.18	1.00	0.02
38.34	101.20	0.21	3.17	1.00	0.03	38.40	100.88	0.21	3.18	1.00	0.02
38.46	101.02	0.21	3.18	1.00	0.02	38.53	100.61	0.21	3.19	1.00	0.03
38.65	99.36	0.21	3.23	1.00	0.05	38.71	99.18	0.21	3.24	1.00	0.02
38.76	98.51	0.20	3.26	1.00	0.02	38.84	98.01	0.20	3.28	1.00	0.03
38.89	97.59	0.20	3.29	1.00	0.02	38.97	96.89	0.20	3.32	1.00	0.03
39.01	96.62	0.20	3.33	1.00	0.02	39.08	96.57	0.20	3.33	1.00	0.03
39.14	97.08	0.20	3.31	1.00	0.03	39.20	97.55	0.20	3.30	1.00	0.02
39.28	97.99	0.20	3.28	1.00	0.03	39.34	97.75	0.20	3.29	1.00	0.03
39.41	98.85	0.20	3.25	1.00	0.03	39.48	102.79	0.21	3.12	1.00	0.03
39.54	109.52	0.23	2.92	1.00	0.02	39.59	118.13	0.26	2.70	1.00	0.02
39.67	124.05	0.28	2.56	1.00	0.02	39.72	127.55	0.30	2.49	1.00	0.01
39.80	129.75	0.31	2.44	1.00	0.02	39.85	130.65	0.32	2.42	1.00	0.01
39.92	131.73	0.32	2.40	1.00	0.02	39.98	132.05	0.33	2.39	1.00	0.02
40.04	131.92	0.32	2.40	1.00	0.02	40.10	132.99	0.33	2.37	1.00	0.02
40.18	135.06	0.34	2.33	1.00	0.02	40.29	136.38	0.35	2.31	1.00	0.03
40.35	137.30	0.36	2.29	1.00	0.02	40.41	137.26	0.36	2.29	1.00	0.02
40.48	137.26	0.36	2.29	1.00	0.02	40.53	136.95	0.36	2.30	1.00	0.01
40.59	137.04	0.36	2.30	1.00	0.02	40.66	138.83	0.37	2.26	1.00	0.02
40.71	142.53	0.40	2.20	1.00	0.01	40.76	152.00	0.51	2.04	1.00	0.01
40.84	157.87	0.60	1.85	1.00	0.02	40.88	157.15	0.58	1.90	1.00	0.01
40.95	156.79	0.58	1.92	1.00	0.02	41.01	156.98	0.58	1.91	1.00	0.01
41.13	157.16	0.58	1.90	1.00	0.03	41.19	158.57	0.61	1.81	1.00	0.01
41.25	158.20	0.60	1.83	1.00	0.01	41.31	159.98	0.64	1.73	1.00	0.01
41.37	160.41	0.64	1.70	1.00	0.01	41.43	159.06	0.62	1.78	1.00	0.01
41.54	151.45	0.50	2.05	1.00	0.03	41.61	148.37	0.46	2.10	1.00	0.02
41.67	145.43	0.43	2.15	1.00	0.02	41.72	144.18	0.42	2.17	1.00	0.01
41.79	143.93	0.42	2.17	1.00	0.02	41.85	144.15	0.42	2.17	1.00	0.02
41.90	144.63	0.42	2.16	1.00	0.01	41.98	149.04	0.47	2.09	1.00	0.02
42.04	154.77	0.55	2.00	1.00	0.01	42.11	141.50	0.40	2.22	1.00	0.02
42.16	138.48	0.37	2.27	1.00	0.01	42.23	139.73	0.38	2.25	1.00	0.02
42.29	146.16	0.44	2.14	1.00	0.02	42.35	152.29	0.51	2.04	1.00	0.01
42.40	157.82	0.60	1.86	1.00	0.01	42.46	163.10	0.70	1.55	1.00	0.01
42.55	167.10	0.80	1.20	1.00	0.01	42.62	171.50	0.94	0.87	1.00	0.01
42.67	175.48	1.10	0.63	1.00	0.00	42.80	179.82	1.32	0.40	1.00	0.01
42.85	179.88	1.32	0.39	1.00	0.00	42.93	176.31	1.14	0.58	1.00	0.01
42.97	173.88	1.03	0.72	1.00	0.00	43.02	172.06	0.96	0.83	1.00	0.00
43.07	171.29	0.94	0.88	1.00	0.01	43.13	171.11	0.93	0.90	1.00	0.01
43.19	170.99	0.93	0.90	1.00	0.01	43.29	172.21	0.97	0.82	1.00	0.01
43.35	171.49	0.94	0.87	1.00	0.01	43.41	169.62	0.88	1.00	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
43.46	167.15	0.81	1.19	1.00	0.01	43.55	161.81	0.68	1.62	1.00	0.02
43.62	158.93	0.62	1.79	1.00	0.01	43.67	156.81	0.58	1.92	1.00	0.01
43.74	154.00	0.54	2.01	1.00	0.02	43.79	151.14	0.50	2.06	1.00	0.01
43.85	148.68	0.47	2.10	1.00	0.01	43.94	144.70	0.43	2.16	1.00	0.02
44.00	142.47	0.41	2.20	1.00	0.01	44.06	140.45	0.39	2.24	1.00	0.02
44.16	136.85	0.36	2.30	1.00	0.03	44.23	135.14	0.35	2.33	1.00	0.02
44.29	132.98	0.34	2.37	1.00	0.02	44.36	130.96	0.32	2.42	1.00	0.02
44.48	127.48	0.31	2.49	1.00	0.04	44.56	125.37	0.30	2.53	1.00	0.02
44.61	123.02	0.28	2.59	1.00	0.02	44.68	120.06	0.27	2.65	1.00	0.02
44.74	116.79	0.26	2.73	1.00	0.02	44.82	112.05	0.24	2.86	1.00	0.03
44.86	111.82	0.24	2.86	1.00	0.02	44.95	110.44	0.24	2.90	1.00	0.03
45.00	110.87	0.24	2.89	1.00	0.02	45.06	114.22	0.25	2.80	1.00	0.02
45.10	113.17	0.25	2.83	1.00	0.01	45.17	113.59	0.25	2.81	1.00	0.03
45.26	107.10	0.23	2.99	1.00	0.03	45.29	106.76	0.23	3.00	1.00	0.01
45.39	105.93	0.23	3.03	1.00	0.03	45.43	111.25	0.24	2.88	1.00	0.01
45.48	118.89	0.27	2.68	1.00	0.02	45.57	128.50	0.31	2.47	1.00	0.03
45.61	127.37	0.31	2.49	1.00	0.01	45.70	119.41	0.27	2.67	1.00	0.03
45.74	119.90	0.27	2.66	1.00	0.01	45.84	137.35	0.37	2.29	1.00	0.03
45.89	141.76	0.40	2.21	1.00	0.01	45.94	139.22	0.38	2.26	1.00	0.01
46.03	120.34	0.27	2.65	1.00	0.03	46.09	110.30	0.24	2.90	1.00	0.02
46.14	38.70	2.00	0.00	1.00	0.00	46.23	26.55	2.00	0.00	1.00	0.00
46.27	21.83	2.00	0.00	1.00	0.00	46.44	18.59	2.00	0.00	1.00	0.00
46.50	17.88	2.00	0.00	1.00	0.00	46.55	17.44	2.00	0.00	1.00	0.00
46.62	16.93	2.00	0.00	1.00	0.00	46.67	16.08	2.00	0.00	1.00	0.00
46.72	15.86	2.00	0.00	1.00	0.00	46.80	16.00	2.00	0.00	1.00	0.00
46.86	16.12	2.00	0.00	1.00	0.00	46.93	16.25	2.00	0.00	1.00	0.00
46.98	16.66	2.00	0.00	1.00	0.00	47.06	17.00	2.00	0.00	1.00	0.00
47.11	17.70	2.00	0.00	1.00	0.00	47.18	19.30	2.00	0.00	1.00	0.00
47.24	19.99	2.00	0.00	1.00	0.00	47.30	20.19	2.00	0.00	1.00	0.00
47.37	21.44	2.00	0.00	1.00	0.00	47.43	22.83	2.00	0.00	1.00	0.00
47.50	23.66	2.00	0.00	1.00	0.00	47.55	23.51	2.00	0.00	1.00	0.00
47.68	23.48	2.00	0.00	1.00	0.00	47.74	23.89	2.00	0.00	1.00	0.00
47.81	24.64	2.00	0.00	1.00	0.00	47.88	25.19	2.00	0.00	1.00	0.00
47.94	25.46	2.00	0.00	1.00	0.00	48.00	26.43	2.00	0.00	1.00	0.00
48.05	24.58	2.00	0.00	1.00	0.00	48.05	18.48	2.00	0.00	1.00	0.00
48.14	29.93	2.00	0.00	1.00	0.00	48.18	30.91	2.00	0.00	1.00	0.00
48.28	32.30	2.00	0.00	1.00	0.00	48.32	33.06	2.00	0.00	1.00	0.00
48.36	33.12	2.00	0.00	1.00	0.00	48.47	31.37	2.00	0.00	1.00	0.00
48.59	27.10	2.00	0.00	1.00	0.00	48.66	26.44	2.00	0.00	1.00	0.00
48.71	26.50	2.00	0.00	1.00	0.00	48.77	25.99	2.00	0.00	1.00	0.00
48.85	24.91	2.00	0.00	1.00	0.00	48.90	25.60	2.00	0.00	1.00	0.00
48.98	28.67	2.00	0.00	1.00	0.00	49.02	33.16	2.00	0.00	1.00	0.00
49.10	35.82	2.00	0.00	1.00	0.00	49.15	35.30	2.00	0.00	1.00	0.00
49.20	33.87	2.00	0.00	1.00	0.00	49.29	31.51	2.00	0.00	1.00	0.00
49.33	29.11	2.00	0.00	1.00	0.00	49.39	29.22	2.00	0.00	1.00	0.00
49.46	30.87	2.00	0.00	1.00	0.00	49.51	32.82	2.00	0.00	1.00	0.00
49.59	34.13	2.00	0.00	1.00	0.00	49.64	32.42	2.00	0.00	1.00	0.00
49.69	30.30	2.00	0.00	1.00	0.00	49.77	26.45	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
49.84	22.50	2.00	0.00	1.00	0.00	49.90	20.01	2.00	0.00	1.00	0.00
49.96	19.65	2.00	0.00	1.00	0.00	50.03	20.40	2.00	0.00	1.00	0.00
50.16	31.36	2.00	0.00	1.00	0.00	50.21	46.42	2.00	0.00	1.00	0.00
50.29	65.25	2.00	0.00	1.00	0.00	50.33	75.45	2.00	0.00	1.00	0.00

Total estimated settlement: 6.53

Abbreviations

$Q_{tn,cs}$: Equivalent clean sand normalized cone resistance
FS: Factor of safety against liquefaction
e_v (%): Post-liquefaction volumentric strain
DF: e_v depth weighting factor
Settlement: Calculated settlement

:: Post-earthquake settlement due to soil liquefaction ::

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
5.08	14.32	2.00	0.00	1.00	0.00	5.13	18.64	2.00	0.00	1.00	0.00
5.21	78.23	0.29	4.10	1.00	0.04	5.26	79.99	0.29	4.01	1.00	0.02
5.34	77.33	0.28	4.14	1.00	0.04	5.39	78.83	0.29	4.07	1.00	0.02
5.47	82.91	0.30	3.87	1.00	0.04	5.52	86.73	0.30	3.71	1.00	0.02
5.60	90.42	0.31	3.56	1.00	0.03	5.63	86.99	0.30	3.70	1.00	0.01
5.66	86.26	0.30	3.73	1.00	0.02	5.74	89.96	0.31	3.57	1.00	0.03
5.78	89.37	0.30	3.60	1.00	0.02	5.85	90.24	0.31	3.56	1.00	0.03
5.94	92.72	0.31	3.47	1.00	0.04	6.00	94.94	0.32	3.39	1.00	0.02
6.06	96.33	0.32	3.34	1.00	0.02	6.10	96.73	0.32	3.32	1.00	0.02
6.20	95.72	0.31	3.36	1.00	0.04	6.26	94.21	0.31	3.41	1.00	0.02
6.32	93.48	0.30	3.44	1.00	0.02	6.37	92.62	0.30	3.47	1.00	0.02
6.46	30.03	2.00	0.00	1.00	0.00	6.51	28.92	2.00	0.00	1.00	0.00
6.63	27.10	2.00	0.00	1.00	0.00	6.69	25.03	2.00	0.00	1.00	0.00
6.76	25.03	2.00	0.00	1.00	0.00	6.81	25.03	2.00	0.00	1.00	0.00
6.86	25.02	2.00	0.00	1.00	0.00	6.94	25.12	2.00	0.00	1.00	0.00
7.00	25.65	2.00	0.00	1.00	0.00	7.08	25.53	2.00	0.00	1.00	0.00
7.11	20.81	2.00	0.00	1.00	0.00	7.18	22.94	2.00	0.00	1.00	0.00
7.22	21.07	2.00	0.00	1.00	0.00	7.34	16.86	2.00	0.00	1.00	0.00
7.40	14.70	2.00	0.00	1.00	0.00	7.46	14.24	2.00	0.00	1.00	0.00
7.52	14.44	2.00	0.00	1.00	0.00	7.58	14.26	2.00	0.00	1.00	0.00
7.65	16.27	2.00	0.00	1.00	0.00	7.71	20.70	2.00	0.00	1.00	0.00
7.78	82.19	0.25	3.91	1.00	0.03	7.82	85.67	0.26	3.75	1.00	0.02
7.90	87.69	0.26	3.67	1.00	0.03	7.96	89.17	0.26	3.61	1.00	0.03
8.02	90.93	0.27	3.54	1.00	0.03	8.10	90.57	0.27	3.55	1.00	0.03
8.16	93.38	0.27	3.44	1.00	0.02	8.24	93.09	0.27	3.45	1.00	0.04
8.30	92.01	0.27	3.50	1.00	0.03	8.38	91.63	0.26	3.51	1.00	0.03
8.42	93.07	0.27	3.46	1.00	0.02	8.49	28.41	2.00	0.00	1.00	0.00
8.55	92.70	0.27	3.47	1.00	0.02	8.61	97.42	0.28	3.30	1.00	0.02
8.68	95.52	0.27	3.37	1.00	0.03	8.73	89.95	0.26	3.57	1.00	0.02
8.81	90.81	0.26	3.54	1.00	0.03	8.86	92.94	0.26	3.46	1.00	0.02
8.99	101.32	0.28	3.17	1.00	0.05	9.04	104.31	0.29	3.08	1.00	0.02
9.12	107.93	0.31	2.97	1.00	0.03	9.26	110.49	0.31	2.90	1.00	0.05
9.30	110.83	0.31	2.89	1.00	0.02	9.34	106.11	0.30	3.02	1.00	0.02
9.39	105.16	0.29	3.05	1.00	0.02	9.48	103.56	0.29	3.10	1.00	0.03
9.55	102.12	0.28	3.14	1.00	0.03	9.60	98.25	0.27	3.27	1.00	0.02
9.68	91.59	0.25	3.51	1.00	0.03	9.74	25.76	2.00	0.00	1.00	0.00
9.79	77.04	0.22	4.16	1.00	0.03	9.87	16.20	2.00	0.00	1.00	0.00
9.92	13.25	2.00	0.00	1.00	0.00	10.00	16.48	2.00	0.00	1.00	0.00
10.06	16.79	2.00	0.00	1.00	0.00	10.14	89.39	0.24	3.60	1.00	0.04
10.18	97.85	0.26	3.28	1.00	0.02	10.26	111.15	0.31	2.88	1.00	0.03
10.31	117.03	0.33	2.73	1.00	0.02	10.37	122.45	0.36	2.60	1.00	0.02
10.47	125.88	0.38	2.52	1.00	0.03	10.51	127.16	0.38	2.49	1.00	0.01
10.62	129.94	0.40	2.44	1.00	0.03	10.67	132.38	0.42	2.39	1.00	0.01
10.75	134.57	0.44	2.34	1.00	0.02	10.80	135.98	0.45	2.32	1.00	0.01
10.87	137.42	0.46	2.29	1.00	0.02	10.93	138.30	0.47	2.27	1.00	0.02
11.02	138.91	0.47	2.26	1.00	0.02	11.07	139.13	0.47	2.26	1.00	0.01
11.14	139.18	0.47	2.26	1.00	0.02	11.20	139.11	0.47	2.26	1.00	0.02
11.25	137.96	0.46	2.28	1.00	0.01	11.32	135.28	0.44	2.33	1.00	0.02

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
11.38	131.13	0.40	2.41	1.00	0.02	11.45	125.66	0.37	2.53	1.00	0.02
11.51	119.90	0.33	2.66	1.00	0.02	11.57	112.76	0.30	2.84	1.00	0.02
11.64	104.75	0.27	3.06	1.00	0.02	11.71	97.93	0.25	3.28	1.00	0.03
11.77	92.80	0.24	3.47	1.00	0.03	11.90	87.07	0.22	3.69	1.00	0.06
11.95	86.15	0.22	3.73	1.00	0.02	12.03	85.71	0.22	3.75	1.00	0.03
12.09	85.07	0.22	3.78	1.00	0.03	12.16	83.90	0.21	3.83	1.00	0.03
12.21	24.43	2.00	0.00	1.00	0.00	12.28	23.21	2.00	0.00	1.00	0.00
12.34	22.10	2.00	0.00	1.00	0.00	12.42	21.74	2.00	0.00	1.00	0.00
12.47	21.71	2.00	0.00	1.00	0.00	12.54	22.53	2.00	0.00	1.00	0.00
12.60	23.45	2.00	0.00	1.00	0.00	12.67	24.37	2.00	0.00	1.00	0.00
12.74	25.09	2.00	0.00	1.00	0.00	12.80	82.25	0.21	3.90	1.00	0.03
12.87	24.18	2.00	0.00	1.00	0.00	12.92	24.24	2.00	0.00	1.00	0.00
12.99	26.20	2.00	0.00	1.00	0.00	13.02	24.48	2.00	0.00	1.00	0.00
13.09	30.99	2.00	0.00	1.00	0.00	13.13	95.94	0.24	3.35	1.00	0.02
13.23	36.90	2.00	0.00	1.00	0.00	13.26	36.87	2.00	0.00	1.00	0.00
13.36	37.89	2.00	0.00	1.00	0.00	13.40	100.99	0.25	3.18	1.00	0.02
13.49	100.85	0.25	3.19	1.00	0.03	13.54	98.88	0.24	3.25	1.00	0.02
13.60	34.10	2.00	0.00	1.00	0.00	13.65	29.88	2.00	0.00	1.00	0.00
13.75	21.25	2.00	0.00	1.00	0.00	13.79	18.00	2.00	0.00	1.00	0.00
13.89	14.07	2.00	0.00	1.00	0.00	13.93	13.32	2.00	0.00	1.00	0.00
13.98	11.93	2.00	0.00	1.00	0.00	14.11	11.38	2.00	0.00	1.00	0.00
14.15	11.15	2.00	0.00	1.00	0.00	14.20	11.04	2.00	0.00	1.00	0.00
14.27	10.48	2.00	0.00	1.00	0.00	14.33	10.47	2.00	0.00	1.00	0.00
14.38	10.46	2.00	0.00	1.00	0.00	14.46	10.40	2.00	0.00	1.00	0.00
14.54	10.33	2.00	0.00	1.00	0.00	14.59	10.21	2.00	0.00	1.00	0.00
14.66	10.09	2.00	0.00	1.00	0.00	14.78	9.34	2.00	0.00	1.00	0.00
14.85	9.22	2.00	0.00	1.00	0.00	14.91	9.11	2.00	0.00	1.00	0.00
14.99	9.10	2.00	0.00	1.00	0.00	15.04	9.09	2.00	0.00	1.00	0.00
15.12	9.39	2.00	0.00	1.00	0.00	15.17	9.90	2.00	0.00	1.00	0.00
15.23	10.52	2.00	0.00	1.00	0.00	15.30	10.92	2.00	0.00	1.00	0.00
15.34	10.91	2.00	0.00	1.00	0.00	15.48	10.06	2.00	0.00	1.00	0.00
15.54	9.53	2.00	0.00	1.00	0.00	15.61	9.09	2.00	0.00	1.00	0.00
15.66	8.77	2.00	0.00	1.00	0.00	15.73	8.67	2.00	0.00	1.00	0.00
15.78	8.97	2.00	0.00	1.00	0.00	15.97	10.09	2.00	0.00	1.00	0.00
16.02	10.08	2.00	0.00	1.00	0.00	16.03	10.08	2.00	0.00	1.00	0.00
16.11	10.07	2.00	0.00	1.00	0.00	16.14	10.26	2.00	0.00	1.00	0.00
16.29	9.10	2.00	0.00	1.00	0.00	16.33	8.79	2.00	0.00	1.00	0.00
16.45	8.77	2.00	0.00	1.00	0.00	16.49	8.76	2.00	0.00	1.00	0.00
16.56	8.75	2.00	0.00	1.00	0.00	16.63	9.36	2.00	0.00	1.00	0.00
16.67	10.37	2.00	0.00	1.00	0.00	16.75	11.58	2.00	0.00	1.00	0.00
16.80	13.19	2.00	0.00	1.00	0.00	16.87	14.97	2.00	0.00	1.00	0.00
16.93	16.56	2.00	0.00	1.00	0.00	16.99	18.44	2.00	0.00	1.00	0.00
17.06	21.39	2.00	0.00	1.00	0.00	17.11	24.82	2.00	0.00	1.00	0.00
17.18	27.81	2.00	0.00	1.00	0.00	17.24	27.68	2.00	0.00	1.00	0.00
17.30	23.65	2.00	0.00	1.00	0.00	17.37	19.09	2.00	0.00	1.00	0.00
17.43	16.20	2.00	0.00	1.00	0.00	17.51	14.19	2.00	0.00	1.00	0.00
17.64	13.35	2.00	0.00	1.00	0.00	17.68	13.34	2.00	0.00	1.00	0.00
17.75	17.48	2.00	0.00	1.00	0.00	17.82	19.22	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
17.88	19.10	2.00	0.00	1.00	0.00	17.94	18.48	2.00	0.00	1.00	0.00
17.99	18.46	2.00	0.00	1.00	0.00	18.08	20.57	2.00	0.00	1.00	0.00
18.12	24.62	2.00	0.00	1.00	0.00	18.21	31.00	2.00	0.00	1.00	0.00
18.26	101.50	0.23	3.16	1.00	0.02	18.32	111.11	0.26	2.88	1.00	0.02
18.39	109.37	0.25	2.93	1.00	0.02	18.44	107.67	0.24	2.98	1.00	0.02
18.52	106.43	0.24	3.01	1.00	0.03	18.57	107.18	0.24	2.99	1.00	0.02
18.62	108.53	0.25	2.95	1.00	0.02	18.64	105.72	0.24	3.03	1.00	0.01
18.74	103.46	0.23	3.10	1.00	0.04	18.78	99.55	0.22	3.23	1.00	0.02
18.88	91.80	0.20	3.50	1.00	0.04	18.92	87.95	0.20	3.66	1.00	0.02
19.05	81.45	0.18	3.94	1.00	0.06	19.15	74.45	0.17	4.29	1.00	0.05
19.22	15.21	2.00	0.00	1.00	0.00	19.27	12.38	2.00	0.00	1.00	0.00
19.34	10.42	2.00	0.00	1.00	0.00	19.40	8.95	2.00	0.00	1.00	0.00
19.46	8.07	2.00	0.00	1.00	0.00	19.53	7.19	2.00	0.00	1.00	0.00
19.59	7.56	2.00	0.00	1.00	0.00	19.66	7.66	2.00	0.00	1.00	0.00
19.71	7.07	2.00	0.00	1.00	0.00	19.79	6.87	2.00	0.00	1.00	0.00
19.84	6.87	2.00	0.00	1.00	0.00	19.91	6.66	2.00	0.00	1.00	0.00
19.98	7.23	2.00	0.00	1.00	0.00	20.03	7.62	2.00	0.00	1.00	0.00
20.11	8.00	2.00	0.00	1.00	0.00	20.21	8.28	2.00	0.00	1.00	0.00
20.28	8.66	2.00	0.00	1.00	0.00	20.34	9.04	2.00	0.00	1.00	0.00
20.40	9.51	2.00	0.00	1.00	0.00	20.46	10.07	2.00	0.00	1.00	0.00
20.52	11.03	2.00	0.00	1.00	0.00	20.58	11.96	2.00	0.00	1.00	0.00
20.64	13.66	2.00	0.00	1.00	0.00	20.69	15.73	2.00	0.00	1.00	0.00
20.76	17.59	2.00	0.00	1.00	0.00	20.81	19.26	2.00	0.00	1.00	0.00
20.88	21.01	2.00	0.00	1.00	0.00	20.94	23.05	2.00	0.00	1.00	0.00
21.05	31.05	2.00	0.00	1.00	0.00	21.17	105.87	0.23	3.03	1.00	0.04
21.23	112.53	0.25	2.84	1.00	0.02	21.30	116.08	0.26	2.75	1.00	0.02
21.35	119.20	0.28	2.67	1.00	0.02	21.43	117.81	0.27	2.71	1.00	0.02
21.48	115.02	0.26	2.78	1.00	0.02	21.53	119.31	0.28	2.67	1.00	0.02
21.61	125.14	0.30	2.54	1.00	0.02	21.65	127.16	0.31	2.49	1.00	0.01
21.71	126.14	0.31	2.52	1.00	0.02	21.72	118.46	0.27	2.69	1.00	0.00
21.83	121.10	0.28	2.63	1.00	0.04	21.91	120.01	0.28	2.65	1.00	0.02
21.96	120.83	0.28	2.64	1.00	0.02	22.01	122.26	0.29	2.60	1.00	0.02
22.09	124.79	0.30	2.55	1.00	0.02	22.14	126.09	0.31	2.52	1.00	0.01
22.21	127.24	0.31	2.49	1.00	0.02	22.27	125.56	0.30	2.53	1.00	0.02
22.34	120.55	0.28	2.64	1.00	0.02	22.40	115.34	0.26	2.77	1.00	0.02
22.46	110.97	0.25	2.88	1.00	0.02	22.53	106.26	0.23	3.02	1.00	0.02
22.58	101.24	0.22	3.17	1.00	0.02	22.71	100.35	0.22	3.20	1.00	0.05
22.76	101.55	0.22	3.16	1.00	0.02	22.89	100.77	0.22	3.19	1.00	0.05
22.95	103.87	0.22	3.09	1.00	0.02	23.02	111.65	0.25	2.87	1.00	0.03
23.07	115.93	0.26	2.75	1.00	0.02	23.16	118.24	0.27	2.70	1.00	0.03
23.21	117.89	0.27	2.71	1.00	0.02	23.28	116.28	0.26	2.75	1.00	0.02
23.34	112.76	0.25	2.84	1.00	0.02	23.42	106.74	0.23	3.00	1.00	0.03
23.46	99.49	0.21	3.23	1.00	0.02	23.53	92.59	0.20	3.47	1.00	0.03
23.59	27.15	2.00	0.00	1.00	0.00	23.68	23.91	2.00	0.00	1.00	0.00
23.73	20.76	2.00	0.00	1.00	0.00	23.79	17.36	2.00	0.00	1.00	0.00
23.86	14.74	2.00	0.00	1.00	0.00	23.91	13.47	2.00	0.00	1.00	0.00
23.99	13.37	2.00	0.00	1.00	0.00	24.05	12.99	2.00	0.00	1.00	0.00
24.10	12.54	2.00	0.00	1.00	0.00	24.17	11.54	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
24.24	10.99	2.00	0.00	1.00	0.00	24.30	10.53	2.00	0.00	1.00	0.00
24.36	10.26	2.00	0.00	1.00	0.00	24.44	9.89	2.00	0.00	1.00	0.00
24.51	9.34	2.00	0.00	1.00	0.00	24.56	8.97	2.00	0.00	1.00	0.00
24.62	8.79	2.00	0.00	1.00	0.00	24.69	8.88	2.00	0.00	1.00	0.00
24.74	9.05	2.00	0.00	1.00	0.00	24.82	9.48	2.00	0.00	1.00	0.00
24.87	9.74	2.00	0.00	1.00	0.00	24.95	9.91	2.00	0.00	1.00	0.00
25.01	9.99	2.00	0.00	1.00	0.00	25.08	10.24	2.00	0.00	1.00	0.00
25.14	10.76	2.00	0.00	1.00	0.00	25.20	10.85	2.00	0.00	1.00	0.00
25.27	10.48	2.00	0.00	1.00	0.00	25.32	10.03	2.00	0.00	1.00	0.00
25.40	10.29	2.00	0.00	1.00	0.00	25.45	10.98	2.00	0.00	1.00	0.00
25.53	12.82	2.00	0.00	1.00	0.00	25.58	14.91	2.00	0.00	1.00	0.00
25.60	12.28	2.00	0.00	1.00	0.00	25.67	85.24	0.18	3.77	1.00	0.03
25.74	90.68	0.19	3.55	1.00	0.03	25.82	99.34	0.21	3.23	1.00	0.03
25.87	104.02	0.22	3.09	1.00	0.02	25.94	104.57	0.22	3.07	1.00	0.03
26.01	94.24	0.20	3.41	1.00	0.03	26.05	94.80	0.20	3.39	1.00	0.02
26.12	96.32	0.20	3.34	1.00	0.03	26.18	97.95	0.21	3.28	1.00	0.02
26.28	103.31	0.22	3.11	1.00	0.03	26.31	105.45	0.22	3.04	1.00	0.01
26.40	109.29	0.23	2.93	1.00	0.03	26.48	109.74	0.24	2.92	1.00	0.03
26.53	108.64	0.23	2.95	1.00	0.02	26.59	107.68	0.23	2.98	1.00	0.02
26.66	106.63	0.23	3.01	1.00	0.03	26.78	104.54	0.22	3.07	1.00	0.04
26.83	105.30	0.22	3.05	1.00	0.02	26.90	106.02	0.23	3.03	1.00	0.03
26.98	104.20	0.22	3.08	1.00	0.03	27.03	105.63	0.22	3.04	1.00	0.02
27.10	106.68	0.23	3.01	1.00	0.02	27.15	106.19	0.23	3.02	1.00	0.02
27.22	104.47	0.22	3.07	1.00	0.03	27.28	102.22	0.22	3.14	1.00	0.02
27.33	97.79	0.20	3.29	1.00	0.02	27.42	92.98	0.19	3.46	1.00	0.03
27.46	27.82	2.00	0.00	1.00	0.00	27.55	22.19	2.00	0.00	1.00	0.00
27.60	18.27	2.00	0.00	1.00	0.00	27.67	15.36	2.00	0.00	1.00	0.00
27.73	13.05	2.00	0.00	1.00	0.00	27.85	10.22	2.00	0.00	1.00	0.00
27.91	9.37	2.00	0.00	1.00	0.00	27.99	8.94	2.00	0.00	1.00	0.00
28.04	8.75	2.00	0.00	1.00	0.00	28.10	8.75	2.00	0.00	1.00	0.00
28.17	8.58	2.00	0.00	1.00	0.00	28.24	8.06	2.00	0.00	1.00	0.00
28.30	7.80	2.00	0.00	1.00	0.00	28.37	7.63	2.00	0.00	1.00	0.00
28.43	7.62	2.00	0.00	1.00	0.00	28.45	7.66	2.00	0.00	1.00	0.00
28.50	7.69	2.00	0.00	1.00	0.00	28.55	7.94	2.00	0.00	1.00	0.00
28.63	8.02	2.00	0.00	1.00	0.00	28.68	8.27	2.00	0.00	1.00	0.00
28.78	8.76	2.00	0.00	1.00	0.00	28.84	8.84	2.00	0.00	1.00	0.00
28.89	9.00	2.00	0.00	1.00	0.00	28.94	9.25	2.00	0.00	1.00	0.00
29.03	9.49	2.00	0.00	1.00	0.00	29.10	9.39	2.00	0.00	1.00	0.00
29.14	9.31	2.00	0.00	1.00	0.00	29.20	9.13	2.00	0.00	1.00	0.00
29.30	8.95	2.00	0.00	1.00	0.00	29.40	8.69	2.00	0.00	1.00	0.00
29.46	8.52	2.00	0.00	1.00	0.00	29.52	8.76	2.00	0.00	1.00	0.00
29.56	8.76	2.00	0.00	1.00	0.00	29.61	8.92	2.00	0.00	1.00	0.00
29.67	9.32	2.00	0.00	1.00	0.00	29.73	9.98	2.00	0.00	1.00	0.00
29.83	10.80	2.00	0.00	1.00	0.00	29.88	11.54	2.00	0.00	1.00	0.00
30.01	12.51	2.00	0.00	1.00	0.00	30.05	12.75	2.00	0.00	1.00	0.00
30.09	12.99	2.00	0.00	1.00	0.00	30.14	13.06	2.00	0.00	1.00	0.00
30.21	12.64	2.00	0.00	1.00	0.00	30.27	12.62	2.00	0.00	1.00	0.00
30.36	12.61	2.00	0.00	1.00	0.00	30.42	12.60	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
30.47	12.83	2.00	0.00	1.00	0.00	30.53	13.16	2.00	0.00	1.00	0.00
30.58	13.15	2.00	0.00	1.00	0.00	30.67	12.64	2.00	0.00	1.00	0.00
30.74	12.13	2.00	0.00	1.00	0.00	30.79	11.95	2.00	0.00	1.00	0.00
30.85	11.70	2.00	0.00	1.00	0.00	30.91	11.28	2.00	0.00	1.00	0.00
30.98	10.62	2.00	0.00	1.00	0.00	31.10	9.71	2.00	0.00	1.00	0.00
31.23	8.96	2.00	0.00	1.00	0.00	31.28	8.63	2.00	0.00	1.00	0.00
31.34	8.38	2.00	0.00	1.00	0.00	31.37	8.37	2.00	0.00	1.00	0.00
31.37	8.37	2.00	0.00	1.00	0.00	31.46	8.36	2.00	0.00	1.00	0.00
31.51	8.12	2.00	0.00	1.00	0.00	31.60	7.86	2.00	0.00	1.00	0.00
31.65	8.03	2.00	0.00	1.00	0.00	31.74	8.02	2.00	0.00	1.00	0.00
31.82	8.01	2.00	0.00	1.00	0.00	31.86	8.01	2.00	0.00	1.00	0.00
31.91	7.84	2.00	0.00	1.00	0.00	31.99	7.83	2.00	0.00	1.00	0.00
32.04	8.07	2.00	0.00	1.00	0.00	32.16	7.81	2.00	0.00	1.00	0.00
32.18	7.57	2.00	0.00	1.00	0.00	32.23	7.81	2.00	0.00	1.00	0.00
32.31	7.80	2.00	0.00	1.00	0.00	32.35	7.72	2.00	0.00	1.00	0.00
32.44	7.55	2.00	0.00	1.00	0.00	32.53	7.54	2.00	0.00	1.00	0.00
32.57	7.62	2.00	0.00	1.00	0.00	32.62	7.46	2.00	0.00	1.00	0.00
32.69	7.69	2.00	0.00	1.00	0.00	32.75	8.00	2.00	0.00	1.00	0.00
32.83	8.71	2.00	0.00	1.00	0.00	32.92	9.82	2.00	0.00	1.00	0.00
32.97	10.29	2.00	0.00	1.00	0.00	33.01	10.53	2.00	0.00	1.00	0.00
33.10	10.84	2.00	0.00	1.00	0.00	33.14	11.07	2.00	0.00	1.00	0.00
33.23	10.26	2.00	0.00	1.00	0.00	33.28	9.78	2.00	0.00	1.00	0.00
33.34	9.29	2.00	0.00	1.00	0.00	33.43	9.21	2.00	0.00	1.00	0.00
33.50	9.20	2.00	0.00	1.00	0.00	33.54	9.51	2.00	0.00	1.00	0.00
33.64	10.29	2.00	0.00	1.00	0.00	33.70	10.28	2.00	0.00	1.00	0.00
33.76	10.43	2.00	0.00	1.00	0.00	33.80	10.59	2.00	0.00	1.00	0.00
33.86	10.90	2.00	0.00	1.00	0.00	33.98	10.88	2.00	0.00	1.00	0.00
34.04	9.85	2.00	0.00	1.00	0.00	34.08	11.66	2.00	0.00	1.00	0.00
34.17	10.14	2.00	0.00	1.00	0.00	34.21	8.88	2.00	0.00	1.00	0.00
34.26	8.88	2.00	0.00	1.00	0.00	34.39	8.86	2.00	0.00	1.00	0.00
34.43	8.86	2.00	0.00	1.00	0.00	34.48	9.01	2.00	0.00	1.00	0.00
34.53	8.85	2.00	0.00	1.00	0.00	34.58	8.69	2.00	0.00	1.00	0.00
34.65	8.83	2.00	0.00	1.00	0.00	34.74	9.13	2.00	0.00	1.00	0.00
34.78	9.36	2.00	0.00	1.00	0.00	34.87	9.90	2.00	0.00	1.00	0.00
34.92	9.90	2.00	0.00	1.00	0.00	35.00	10.59	2.00	0.00	1.00	0.00
35.05	11.13	2.00	0.00	1.00	0.00	35.12	12.14	2.00	0.00	1.00	0.00
35.18	12.98	2.00	0.00	1.00	0.00	35.27	14.61	2.00	0.00	1.00	0.00
35.31	15.46	2.00	0.00	1.00	0.00	35.40	15.99	2.00	0.00	1.00	0.00
35.44	16.05	2.00	0.00	1.00	0.00	35.58	17.19	2.00	0.00	1.00	0.00
35.62	18.04	2.00	0.00	1.00	0.00	35.72	19.73	2.00	0.00	1.00	0.00
35.76	20.58	2.00	0.00	1.00	0.00	35.81	21.27	2.00	0.00	1.00	0.00
35.84	22.34	2.00	0.00	1.00	0.00	35.90	23.26	2.00	0.00	1.00	0.00
35.98	24.95	2.00	0.00	1.00	0.00	36.04	25.39	2.00	0.00	1.00	0.00
36.09	25.61	2.00	0.00	1.00	0.00	36.24	25.64	2.00	0.00	1.00	0.00
36.28	26.01	2.00	0.00	1.00	0.00	36.33	27.78	2.00	0.00	1.00	0.00
36.39	31.41	2.00	0.00	1.00	0.00	36.46	37.05	2.00	0.00	1.00	0.00
36.51	43.11	2.00	0.00	1.00	0.00	36.57	46.36	2.00	0.00	1.00	0.00
36.64	47.34	2.00	0.00	1.00	0.00	36.68	47.31	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
36.76	48.29	2.00	0.00	1.00	0.00	36.81	52.80	2.00	0.00	1.00	0.00
36.99	138.91	0.37	2.26	1.00	0.05	37.07	148.14	0.46	2.10	1.00	0.02
37.13	145.32	0.43	2.15	1.00	0.01	37.18	144.61	0.42	2.16	1.00	0.01
37.21	144.50	0.42	2.16	1.00	0.01	37.32	151.33	0.50	2.05	1.00	0.03
37.39	157.60	0.59	1.87	1.00	0.02	37.44	161.86	0.68	1.62	1.00	0.01
37.48	165.79	0.77	1.31	1.00	0.01	37.57	172.11	0.96	0.83	1.00	0.01
37.61	175.56	1.10	0.62	1.00	0.00	37.67	179.85	1.32	0.39	1.00	0.00
37.75	182.99	1.52	0.24	1.00	0.00	37.81	183.31	1.54	0.23	1.00	0.00
37.88	182.57	1.49	0.26	1.00	0.00	37.94	180.48	1.36	0.36	1.00	0.00
38.02	178.11	1.23	0.48	1.00	0.00	38.07	176.50	1.15	0.57	1.00	0.00
38.14	175.30	1.09	0.63	1.00	0.01	38.23	175.29	1.09	0.64	1.00	0.01
38.28	175.90	1.12	0.60	1.00	0.00	38.34	178.49	1.25	0.46	1.00	0.00
38.39	185.18	1.68	0.15	1.00	0.00	38.45	193.16	2.00	0.00	1.00	0.00
38.52	200.34	2.00	0.00	1.00	0.00	38.59	206.16	2.00	0.00	1.00	0.00
38.67	209.39	2.00	0.00	1.00	0.00	38.72	209.46	2.00	0.00	1.00	0.00
38.81	210.19	2.00	0.00	1.00	0.00	38.85	210.59	2.00	0.00	1.00	0.00
38.97	215.89	2.00	0.00	1.00	0.00	39.03	219.04	2.00	0.00	1.00	0.00
39.11	222.46	2.00	0.00	1.00	0.00	39.16	224.84	2.00	0.00	1.00	0.00
39.23	226.74	2.00	0.00	1.00	0.00	39.29	227.94	2.00	0.00	1.00	0.00
39.36	228.87	2.00	0.00	1.00	0.00	39.42	229.16	2.00	0.00	1.00	0.00
39.47	228.82	2.00	0.00	1.00	0.00	39.55	226.80	2.00	0.00	1.00	0.00
39.60	223.70	2.00	0.00	1.00	0.00	39.64	202.56	2.00	0.00	1.00	0.00
39.71	207.78	2.00	0.00	1.00	0.00	39.81	203.83	2.00	0.00	1.00	0.00
39.86	200.69	2.00	0.00	1.00	0.00	39.90	199.22	2.00	0.00	1.00	0.00
39.99	193.97	2.00	0.00	1.00	0.00	40.03	192.65	2.00	0.00	1.00	0.00
40.12	189.03	2.00	0.00	1.00	0.00	40.16	186.93	1.83	0.07	1.00	0.00
40.25	182.20	1.47	0.28	1.00	0.00	40.29	180.93	1.39	0.34	1.00	0.00
40.39	177.01	1.17	0.53	1.00	0.01	40.45	176.99	1.17	0.54	1.00	0.00
40.52	177.36	1.19	0.52	1.00	0.00	40.56	178.24	1.24	0.47	1.00	0.00
40.66	180.94	1.39	0.34	1.00	0.00	40.70	182.00	1.46	0.29	1.00	0.00
40.78	184.50	1.63	0.17	1.00	0.00	40.83	186.26	1.77	0.10	1.00	0.00
40.89	188.16	1.93	0.03	1.00	0.00	40.96	189.17	2.00	0.00	1.00	0.00
41.05	189.02	2.00	0.00	1.00	0.00	41.09	189.02	2.00	0.00	1.00	0.00
41.16	189.38	2.00	0.00	1.00	0.00	41.22	189.28	2.00	0.00	1.00	0.00
41.29	190.28	2.00	0.00	1.00	0.00	41.34	191.49	2.00	0.00	1.00	0.00
41.44	193.26	2.00	0.00	1.00	0.00	41.49	193.82	2.00	0.00	1.00	0.00
41.58	193.94	2.00	0.00	1.00	0.00	41.63	194.02	2.00	0.00	1.00	0.00
41.69	193.84	2.00	0.00	1.00	0.00	41.74	193.91	2.00	0.00	1.00	0.00
41.91	187.75	1.90	0.04	1.00	0.00	41.96	183.09	1.53	0.23	1.00	0.00
42.02	177.26	1.19	0.52	1.00	0.00	42.07	172.86	1.00	0.77	1.00	0.01
42.13	169.20	0.87	1.02	1.00	0.01	42.19	167.28	0.82	1.17	1.00	0.01
42.25	166.95	0.81	1.19	1.00	0.01	42.33	167.78	0.83	1.13	1.00	0.01
42.43	171.52	0.95	0.86	1.00	0.01	42.47	170.62	0.92	0.92	1.00	0.00
42.56	169.79	0.89	0.97	1.00	0.01	42.60	169.58	0.89	0.99	1.00	0.00
42.66	167.75	0.83	1.13	1.00	0.01	42.73	164.39	0.74	1.42	1.00	0.01
42.81	162.85	0.71	1.57	1.00	0.01	42.86	161.50	0.68	1.64	1.00	0.01
42.95	162.47	0.70	1.59	1.00	0.02	42.99	166.20	0.79	1.25	1.00	0.01
43.08	176.38	1.15	0.56	1.00	0.01	43.17	185.31	1.70	0.14	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
43.22	188.75	1.99	0.00	1.00	0.00	43.26	191.41	2.00	0.00	1.00	0.00
43.34	183.52	1.56	0.21	1.00	0.00	43.39	183.72	1.58	0.20	1.00	0.00
43.48	182.59	1.50	0.26	1.00	0.00	43.51	183.80	1.58	0.20	1.00	0.00
43.59	184.53	1.64	0.17	1.00	0.00	43.65	186.58	1.80	0.08	1.00	0.00
43.72	190.64	2.00	0.00	1.00	0.00	43.79	192.86	2.00	0.00	1.00	0.00
43.88	193.56	2.00	0.00	1.00	0.00	43.91	192.64	2.00	0.00	1.00	0.00
44.00	189.42	2.00	0.00	1.00	0.00	44.04	186.30	1.78	0.09	1.00	0.00
44.14	178.42	1.25	0.45	1.00	0.01	44.18	174.96	1.09	0.64	1.00	0.00
44.23	171.17	0.94	0.87	1.00	0.01	44.32	167.06	0.81	1.17	1.00	0.01
44.36	165.94	0.78	1.27	1.00	0.01	44.45	165.80	0.78	1.28	1.00	0.01
44.52	161.61	0.68	1.63	1.00	0.01	44.58	165.46	0.77	1.31	1.00	0.01
44.63	167.51	0.83	1.14	1.00	0.01	44.70	167.40	0.82	1.15	1.00	0.01
44.76	166.84	0.81	1.19	1.00	0.01	44.85	155.75	0.57	1.99	1.00	0.02
44.89	165.88	0.78	1.27	1.00	0.00	44.98	161.82	0.69	1.62	1.00	0.02
45.03	167.44	0.83	1.14	1.00	0.01	45.11	177.73	1.22	0.49	1.00	0.00
45.15	181.93	1.46	0.28	1.00	0.00	45.26	194.65	2.00	0.00	1.00	0.00
45.31	198.06	2.00	0.00	1.00	0.00	45.35	199.75	2.00	0.00	1.00	0.00
45.41	199.81	2.00	0.00	1.00	0.00	45.47	197.14	2.00	0.00	1.00	0.00
45.55	193.21	2.00	0.00	1.00	0.00	45.64	188.68	1.99	0.00	1.00	0.00
45.68	187.02	1.85	0.06	1.00	0.00	45.74	184.25	1.62	0.18	1.00	0.00
45.83	180.04	1.35	0.37	1.00	0.00	45.87	177.14	1.19	0.52	1.00	0.00
45.95	172.31	0.99	0.79	1.00	0.01	46.08	158.96	0.63	1.79	1.00	0.03
46.13	156.38	0.59	1.95	1.00	0.01	46.18	153.87	0.55	2.02	1.00	0.01
46.22	154.76	0.56	2.00	1.00	0.01	46.27	155.23	0.57	2.00	1.00	0.01
46.34	154.98	0.56	2.00	1.00	0.02	46.43	150.76	0.50	2.06	1.00	0.02
46.52	140.05	0.39	2.24	1.00	0.02	46.57	124.94	0.30	2.54	1.00	0.01
46.64	108.85	0.24	2.94	1.00	0.03	46.70	34.41	2.00	0.00	1.00	0.00
46.77	27.98	2.00	0.00	1.00	0.00	46.83	26.86	2.00	0.00	1.00	0.00
46.90	28.09	2.00	0.00	1.00	0.00	46.94	25.66	2.00	0.00	1.00	0.00
47.01	30.90	2.00	0.00	1.00	0.00	47.05	31.66	2.00	0.00	1.00	0.00
47.14	31.70	2.00	0.00	1.00	0.00	47.19	28.91	2.00	0.00	1.00	0.00
47.27	26.81	2.00	0.00	1.00	0.00	47.33	28.97	2.00	0.00	1.00	0.00
47.41	28.29	2.00	0.00	1.00	0.00	47.44	29.04	2.00	0.00	1.00	0.00
47.54	30.53	2.00	0.00	1.00	0.00	47.58	30.80	2.00	0.00	1.00	0.00
47.68	31.61	2.00	0.00	1.00	0.00	47.74	33.18	2.00	0.00	1.00	0.00
47.77	34.84	2.00	0.00	1.00	0.00	47.84	38.23	2.00	0.00	1.00	0.00
47.91	40.66	2.00	0.00	1.00	0.00	47.98	39.63	2.00	0.00	1.00	0.00
48.05	39.43	2.00	0.00	1.00	0.00	48.11	39.41	2.00	0.00	1.00	0.00
48.19	39.21	2.00	0.00	1.00	0.00	48.24	44.41	2.00	0.00	1.00	0.00
48.30	55.76	2.00	0.00	1.00	0.00	48.38	132.59	0.34	2.38	1.00	0.02
48.46	136.00	0.37	2.32	1.00	0.02	48.52	139.45	0.39	2.25	1.00	0.02
48.60	142.96	0.42	2.19	1.00	0.02	48.64	139.33	0.39	2.26	1.00	0.01
48.71	126.44	0.31	2.51	1.00	0.02	48.77	132.19	0.34	2.39	1.00	0.02
48.90	145.04	0.44	2.16	1.00	0.03	48.95	151.22	0.52	2.06	1.00	0.01
48.96	146.02	0.45	2.14	1.00	0.00	49.02	168.60	0.87	1.03	1.00	0.01
49.08	186.58	1.82	0.08	1.00	0.00	49.16	193.66	2.00	0.00	1.00	0.00
49.22	193.20	2.00	0.00	1.00	0.00	49.33	187.00	1.86	0.06	1.00	0.00
49.36	182.82	1.53	0.23	1.00	0.00	49.46	170.44	0.93	0.90	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
49.51	164.49	0.76	1.36	1.00	0.01	49.55	160.49	0.67	1.70	1.00	0.01
49.62	149.94	0.50	2.08	1.00	0.02	49.69	143.36	0.43	2.18	1.00	0.02
49.81	143.82	0.43	2.18	1.00	0.03	49.86	146.27	0.46	2.14	1.00	0.01
49.90	149.89	0.50	2.08	1.00	0.01	49.94	151.07	0.52	2.06	1.00	0.01
50.01	93.37	2.00	0.00	1.00	0.00	50.08	87.77	2.00	0.00	1.00	0.00
50.17	78.12	2.00	0.00	1.00	0.00	50.21	72.28	2.00	0.00	1.00	0.00
50.30	63.35	2.00	0.00	1.00	0.00	50.35	56.57	2.00	0.00	1.00	0.00

Total estimated settlement: 5.13

Abbreviations

$Q_{tn,cs}$:	Equivalent clean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

:: Post-earthquake settlement due to soil liquefaction ::

Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)
5.07	102.84	0.53	2.28	1.00	0.02	5.15	102.74	0.53	2.29	1.00	0.02
5.18	102.57	0.52	2.29	1.00	0.01	5.29	102.02	0.51	2.30	1.00	0.03
5.34	101.39	0.50	2.31	1.00	0.01	5.42	100.52	0.49	2.33	1.00	0.02
5.46	100.68	0.49	2.32	1.00	0.01	5.54	98.94	0.48	2.36	1.00	0.02
5.58	97.70	0.46	2.38	1.00	0.01	5.66	96.10	0.45	2.41	1.00	0.02
5.73	97.08	0.45	2.39	1.00	0.02	5.78	98.78	0.46	2.36	1.00	0.01
5.87	98.15	0.46	2.37	1.00	0.02	5.91	98.05	0.45	2.37	1.00	0.01
6.00	100.65	0.47	2.32	1.00	0.02	6.04	101.34	0.47	2.31	1.00	0.01
6.13	103.64	2.00	0.00	1.00	0.00	6.21	102.89	2.00	0.00	1.00	0.00
6.28	99.93	0.45	2.34	1.00	0.02	6.31	97.87	0.44	2.38	1.00	0.01
6.39	93.32	0.41	2.47	1.00	0.03	6.44	91.40	0.39	2.52	1.00	0.01
6.57	79.42	0.33	2.82	1.00	0.04	6.62	76.22	0.31	2.92	1.00	0.02
6.65	77.46	0.32	2.88	1.00	0.01	6.70	78.93	0.32	2.84	1.00	0.02
6.79	79.76	0.32	2.81	1.00	0.03	6.83	81.39	0.33	2.77	1.00	0.01
6.92	84.43	0.34	2.68	1.00	0.03	6.96	83.76	0.34	2.70	1.00	0.01
7.05	79.57	0.32	2.82	1.00	0.03	7.12	75.50	0.30	2.94	1.00	0.02
7.19	68.61	0.27	3.18	1.00	0.02	7.29	65.03	0.26	3.33	1.00	0.04
7.41	71.49	0.28	3.08	1.00	0.04	7.47	70.85	0.28	3.10	1.00	0.02
7.49	73.72	2.00	0.00	1.00	0.00	7.58	71.27	0.27	3.08	1.00	0.03
7.66	78.95	0.30	2.84	1.00	0.03	7.71	83.58	2.00	0.00	1.00	0.00
7.75	87.69	2.00	0.00	1.00	0.00	7.83	94.87	2.00	0.00	1.00	0.00
7.88	98.68	2.00	0.00	1.00	0.00	7.97	103.27	0.43	2.28	1.00	0.02
8.02	104.68	0.44	2.25	1.00	0.01	8.11	111.56	0.49	2.14	1.00	0.02
8.16	115.93	0.53	2.07	1.00	0.01	8.26	119.80	0.56	2.02	1.00	0.02
8.30	120.85	0.57	2.00	1.00	0.01	8.36	120.94	0.57	2.00	1.00	0.02
8.41	121.04	0.57	2.00	1.00	0.01	8.50	120.98	0.56	2.00	1.00	0.02
8.55	121.02	0.56	2.00	1.00	0.01	8.65	115.49	0.51	2.08	1.00	0.03
8.69	112.83	0.49	2.12	1.00	0.01	8.75	103.86	0.42	2.27	1.00	0.02
8.81	91.42	0.34	2.52	1.00	0.02	8.90	76.29	2.00	0.00	1.00	0.00
8.94	69.27	2.00	0.00	1.00	0.00	9.03	59.63	2.00	0.00	1.00	0.00
9.09	58.19	2.00	0.00	1.00	0.00	9.15	57.81	2.00	0.00	1.00	0.00
9.19	57.40	2.00	0.00	1.00	0.00	9.25	57.62	2.00	0.00	1.00	0.00
9.34	58.38	2.00	0.00	1.00	0.00	9.41	61.36	2.00	0.00	1.00	0.00
9.51	71.41	2.00	0.00	1.00	0.00	9.57	75.84	2.00	0.00	1.00	0.00
9.70	83.25	2.00	0.00	1.00	0.00	9.74	84.02	2.00	0.00	1.00	0.00
9.81	84.66	2.00	0.00	1.00	0.00	9.87	84.85	2.00	0.00	1.00	0.00
9.93	85.50	2.00	0.00	1.00	0.00	9.99	86.42	2.00	0.00	1.00	0.00
10.05	86.74	2.00	0.00	1.00	0.00	10.13	86.80	2.00	0.00	1.00	0.00
10.18	85.74	2.00	0.00	1.00	0.00	10.31	83.16	2.00	0.00	1.00	0.00
10.36	80.93	2.00	0.00	1.00	0.00	10.42	69.30	0.24	3.16	1.00	0.02
10.49	73.88	2.00	0.00	1.00	0.00	10.55	78.18	2.00	0.00	1.00	0.00
10.62	82.54	0.28	2.73	1.00	0.02	10.69	87.66	2.00	0.00	1.00	0.00
10.70	85.35	0.29	2.66	1.00	0.00	10.76	88.89	0.31	2.57	1.00	0.02
10.86	92.40	0.32	2.49	1.00	0.03	10.91	92.70	0.32	2.49	1.00	0.02
10.96	91.83	0.32	2.51	1.00	0.02	11.03	90.34	0.31	2.54	1.00	0.02
11.12	91.81	0.32	2.51	1.00	0.03	11.17	89.83	0.31	2.55	1.00	0.02
11.25	92.52	0.32	2.49	1.00	0.02	11.30	94.70	0.33	2.44	1.00	0.01
11.42	95.28	0.33	2.43	1.00	0.04	11.47	93.36	0.32	2.47	1.00	0.02

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)
11.53	94.42	0.33	2.45	1.00	0.02	11.58	96.59	0.34	2.40	1.00	0.02
11.64	97.83	0.34	2.38	1.00	0.02	11.69	100.62	0.36	2.32	1.00	0.01
11.75	103.60	0.38	2.27	1.00	0.02	11.86	110.73	0.42	2.15	1.00	0.03
11.91	114.12	0.44	2.10	1.00	0.01	11.95	117.09	0.47	2.05	1.00	0.01
12.01	121.86	0.50	1.99	1.00	0.01	12.13	130.10	0.58	1.88	1.00	0.03
12.17	132.04	0.60	1.86	1.00	0.01	12.24	130.13	0.58	1.88	1.00	0.02
12.30	125.52	0.53	1.94	1.00	0.01	12.35	123.47	0.51	1.97	1.00	0.01
12.50	119.46	0.48	2.02	1.00	0.04	12.57	119.18	0.48	2.02	1.00	0.02
12.61	118.26	0.47	2.04	1.00	0.01	12.66	118.48	0.47	2.03	1.00	0.01
12.70	120.02	0.48	2.01	1.00	0.01	12.76	120.62	0.49	2.00	1.00	0.01
12.81	119.48	0.48	2.02	1.00	0.01	12.88	117.31	0.46	2.05	1.00	0.02
12.97	112.26	2.00	0.00	1.00	0.00	13.03	105.93	2.00	0.00	1.00	0.00
13.07	100.93	2.00	0.00	1.00	0.00	13.14	91.14	2.00	0.00	1.00	0.00
13.23	68.02	2.00	0.00	1.00	0.00	13.29	66.97	2.00	0.00	1.00	0.00
13.34	64.33	2.00	0.00	1.00	0.00	13.41	60.82	2.00	0.00	1.00	0.00
13.46	59.36	2.00	0.00	1.00	0.00	13.52	58.61	2.00	0.00	1.00	0.00
13.59	59.32	2.00	0.00	1.00	0.00	13.65	59.55	2.00	0.00	1.00	0.00
13.73	59.66	2.00	0.00	1.00	0.00	13.81	59.78	2.00	0.00	1.00	0.00
13.88	59.87	2.00	0.00	1.00	0.00	13.92	59.31	2.00	0.00	1.00	0.00
14.00	56.97	2.00	0.00	1.00	0.00	14.08	55.97	2.00	0.00	1.00	0.00
14.12	55.17	2.00	0.00	1.00	0.00	14.21	52.00	2.00	0.00	1.00	0.00
14.26	50.21	2.00	0.00	1.00	0.00	14.35	48.38	2.00	0.00	1.00	0.00
14.39	47.08	2.00	0.00	1.00	0.00	14.47	46.47	2.00	0.00	1.00	0.00
14.52	46.19	2.00	0.00	1.00	0.00	14.61	46.57	2.00	0.00	1.00	0.00
14.66	46.45	2.00	0.00	1.00	0.00	14.74	47.41	2.00	0.00	1.00	0.00
14.79	48.01	2.00	0.00	1.00	0.00	14.87	48.78	2.00	0.00	1.00	0.00
14.91	50.33	2.00	0.00	1.00	0.00	14.97	53.03	2.00	0.00	1.00	0.00
15.06	55.85	2.00	0.00	1.00	0.00	15.10	56.92	2.00	0.00	1.00	0.00
15.20	58.42	2.00	0.00	1.00	0.00	15.23	58.72	2.00	0.00	1.00	0.00
15.32	61.69	2.00	0.00	1.00	0.00	15.41	62.42	2.00	0.00	1.00	0.00
15.46	62.69	2.00	0.00	1.00	0.00	15.54	63.42	2.00	0.00	1.00	0.00
15.58	63.45	2.00	0.00	1.00	0.00	15.64	63.05	2.00	0.00	1.00	0.00
15.70	62.43	2.00	0.00	1.00	0.00	15.75	62.07	2.00	0.00	1.00	0.00
15.84	61.73	2.00	0.00	1.00	0.00	15.90	61.72	2.00	0.00	1.00	0.00
15.96	61.72	2.00	0.00	1.00	0.00	16.06	59.84	2.00	0.00	1.00	0.00
16.11	54.89	2.00	0.00	1.00	0.00	16.15	50.95	2.00	0.00	1.00	0.00
16.22	52.29	2.00	0.00	1.00	0.00	16.27	53.51	2.00	0.00	1.00	0.00
16.37	54.80	2.00	0.00	1.00	0.00	16.42	55.51	2.00	0.00	1.00	0.00
16.50	59.28	2.00	0.00	1.00	0.00	16.54	62.59	2.00	0.00	1.00	0.00
16.62	68.01	2.00	0.00	1.00	0.00	16.68	71.56	2.00	0.00	1.00	0.00
16.77	78.40	2.00	0.00	1.00	0.00	16.83	82.38	2.00	0.00	1.00	0.00
16.87	85.10	2.00	0.00	1.00	0.00	16.95	93.34	2.00	0.00	1.00	0.00
17.03	101.69	2.00	0.00	1.00	0.00	17.07	104.77	2.00	0.00	1.00	0.00
17.16	109.33	2.00	0.00	1.00	0.00	17.21	110.18	2.00	0.00	1.00	0.00
17.30	109.17	0.37	2.17	1.00	0.02	17.33	108.79	0.36	2.18	1.00	0.01
17.43	109.47	0.37	2.17	1.00	0.02	17.47	110.33	0.37	2.16	1.00	0.01
17.55	112.69	0.39	2.12	1.00	0.02	17.62	113.56	0.39	2.11	1.00	0.02
17.66	113.67	0.39	2.10	1.00	0.01	17.75	114.39	0.40	2.09	1.00	0.02

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)
17.79	115.59	0.40	2.07	1.00	0.01	17.87	118.69	0.43	2.03	1.00	0.02
17.95	120.55	0.44	2.00	1.00	0.02	18.00	120.57	0.44	2.00	1.00	0.01
18.09	119.75	0.43	2.02	1.00	0.02	18.13	117.09	0.41	2.05	1.00	0.01
18.18	114.65	0.40	2.09	1.00	0.01	18.26	108.66	0.36	2.18	1.00	0.02
18.31	106.47	0.35	2.22	1.00	0.01	18.40	105.29	0.34	2.24	1.00	0.02
18.44	104.97	0.34	2.25	1.00	0.01	18.53	106.10	0.34	2.23	1.00	0.02
18.57	106.90	0.35	2.21	1.00	0.01	18.66	108.75	0.36	2.18	1.00	0.02
18.70	110.13	0.37	2.16	1.00	0.01	18.80	113.29	0.39	2.11	1.00	0.02
18.84	114.97	0.40	2.08	1.00	0.01	18.90	116.25	0.40	2.07	1.00	0.02
19.01	118.58	0.42	2.03	1.00	0.03	19.06	120.09	0.43	2.01	1.00	0.01
19.11	122.40	0.45	1.98	1.00	0.01	19.20	109.44	0.36	2.17	1.00	0.02
19.31	114.90	0.39	2.09	1.00	0.03	19.37	117.92	0.41	2.04	1.00	0.01
19.41	120.31	0.43	2.01	1.00	0.01	19.46	120.42	0.43	2.01	1.00	0.01
19.51	122.37	0.45	1.98	1.00	0.01	19.55	122.70	0.45	1.98	1.00	0.01
19.65	127.51	0.49	1.91	1.00	0.02	19.69	129.13	0.50	1.89	1.00	0.01
19.78	132.92	0.53	1.85	1.00	0.02	19.82	134.69	0.55	1.83	1.00	0.01
19.91	137.03	0.57	1.80	1.00	0.02	19.96	139.45	0.59	1.78	1.00	0.01
20.04	142.19	0.62	1.75	1.00	0.02	20.09	143.88	0.63	1.73	1.00	0.01
20.17	144.11	0.64	1.73	1.00	0.02	20.22	143.72	0.63	1.74	1.00	0.01
20.30	142.33	0.62	1.75	1.00	0.02	20.37	141.00	0.60	1.76	1.00	0.02
20.44	139.88	0.59	1.77	1.00	0.02	20.49	139.01	0.58	1.78	1.00	0.01
20.57	138.56	0.58	1.79	1.00	0.02	20.61	137.96	0.57	1.79	1.00	0.01
20.70	136.28	0.56	1.81	1.00	0.02	20.74	135.19	0.55	1.82	1.00	0.01
20.83	132.22	0.52	1.86	1.00	0.02	20.90	130.03	0.50	1.88	1.00	0.01
20.95	128.84	0.49	1.90	1.00	0.01	21.03	126.69	0.47	1.92	1.00	0.02
21.08	125.95	0.47	1.93	1.00	0.01	21.16	125.77	0.47	1.94	1.00	0.02
21.20	123.54	0.45	1.96	1.00	0.01	21.29	118.29	0.41	2.04	1.00	0.02
21.35	114.09	0.38	2.10	1.00	0.01	21.40	108.65	0.35	2.18	1.00	0.01
21.49	107.44	0.34	2.20	1.00	0.02	21.54	108.10	0.35	2.19	1.00	0.01
21.59	110.01	0.36	2.16	1.00	0.01	21.66	112.76	0.38	2.12	1.00	0.02
21.76	118.49	0.41	2.03	1.00	0.02	21.82	121.72	0.44	1.99	1.00	0.01
21.89	108.92	0.35	2.18	1.00	0.02	21.95	108.53	0.35	2.19	1.00	0.02
22.03	112.66	0.37	2.12	1.00	0.02	22.08	120.36	2.00	0.00	1.00	0.00
22.15	128.28	2.00	0.00	1.00	0.00	22.20	131.02	0.51	1.87	1.00	0.01
22.26	134.85	0.54	1.83	1.00	0.01	22.32	137.62	0.57	1.80	1.00	0.01
22.39	138.94	0.58	1.78	1.00	0.01	22.45	138.04	0.57	1.79	1.00	0.01
22.52	134.47	0.54	1.83	1.00	0.01	22.61	127.32	0.48	1.92	1.00	0.02
22.65	124.12	0.45	1.96	1.00	0.01	22.74	118.10	2.00	0.00	1.00	0.00
22.79	114.37	2.00	0.00	1.00	0.00	22.88	108.60	2.00	0.00	1.00	0.00
22.92	106.14	2.00	0.00	1.00	0.00	23.02	98.20	2.00	0.00	1.00	0.00
23.08	95.23	2.00	0.00	1.00	0.00	23.13	93.02	2.00	0.00	1.00	0.00
23.19	94.15	2.00	0.00	1.00	0.00	23.24	95.76	2.00	0.00	1.00	0.00
23.31	102.27	2.00	0.00	1.00	0.00	23.36	105.79	2.00	0.00	1.00	0.00
23.46	108.88	2.00	0.00	1.00	0.00	23.58	117.84	2.00	0.00	1.00	0.00
23.63	120.53	2.00	0.00	1.00	0.00	23.71	124.73	2.00	0.00	1.00	0.00
23.77	127.37	2.00	0.00	1.00	0.00	23.85	130.32	2.00	0.00	1.00	0.00
23.90	129.86	0.49	1.89	1.00	0.01	24.02	129.89	0.49	1.89	1.00	0.03
24.10	127.00	0.47	1.92	1.00	0.02	24.15	123.19	0.44	1.97	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)
24.21	115.68	0.39	2.07	1.00	0.02	24.28	108.11	0.34	2.19	1.00	0.02
24.35	107.89	0.34	2.20	1.00	0.02	24.42	85.10	0.24	2.67	1.00	0.02
24.54	97.67	0.29	2.38	1.00	0.04	24.59	99.49	0.30	2.35	1.00	0.02
24.66	101.53	0.31	2.31	1.00	0.02	24.70	102.37	0.31	2.29	1.00	0.01
24.75	103.51	0.32	2.27	1.00	0.01	24.84	105.69	0.33	2.23	1.00	0.02
24.88	107.12	0.34	2.21	1.00	0.01	24.97	109.89	0.35	2.16	1.00	0.02
25.01	111.32	0.36	2.14	1.00	0.01	25.10	111.52	0.36	2.14	1.00	0.02
25.15	111.01	0.36	2.14	1.00	0.01	25.21	109.59	0.35	2.17	1.00	0.01
25.27	107.68	0.34	2.20	1.00	0.02	25.36	103.82	0.32	2.27	1.00	0.03
25.40	101.67	0.31	2.31	1.00	0.01	25.49	98.62	0.29	2.36	1.00	0.03
25.54	97.84	0.29	2.38	1.00	0.01	25.64	99.92	0.30	2.34	1.00	0.03
25.70	100.49	2.00	0.00	1.00	0.00	25.76	100.60	2.00	0.00	1.00	0.00
25.81	96.70	2.00	0.00	1.00	0.00	25.87	92.64	2.00	0.00	1.00	0.00
25.94	88.56	2.00	0.00	1.00	0.00	25.99	84.05	2.00	0.00	1.00	0.00
26.11	69.55	2.00	0.00	1.00	0.00	26.14	66.36	2.00	0.00	1.00	0.00
26.21	60.86	2.00	0.00	1.00	0.00	26.26	57.45	2.00	0.00	1.00	0.00
26.37	57.07	2.00	0.00	1.00	0.00	26.42	57.19	2.00	0.00	1.00	0.00
26.47	57.34	2.00	0.00	1.00	0.00	26.55	57.84	2.00	0.00	1.00	0.00
26.60	58.14	2.00	0.00	1.00	0.00	26.67	58.66	2.00	0.00	1.00	0.00
26.73	58.44	2.00	0.00	1.00	0.00	26.80	57.75	2.00	0.00	1.00	0.00
26.86	57.12	2.00	0.00	1.00	0.00	26.91	56.59	2.00	0.00	1.00	0.00
26.99	55.16	2.00	0.00	1.00	0.00	27.04	51.84	2.00	0.00	1.00	0.00
27.12	47.89	2.00	0.00	1.00	0.00	27.17	49.26	2.00	0.00	1.00	0.00
27.25	52.63	2.00	0.00	1.00	0.00	27.30	53.21	2.00	0.00	1.00	0.00
27.36	53.95	2.00	0.00	1.00	0.00	27.44	55.25	2.00	0.00	1.00	0.00
27.55	56.83	2.00	0.00	1.00	0.00	27.58	57.20	2.00	0.00	1.00	0.00
27.64	57.55	2.00	0.00	1.00	0.00	27.73	60.35	2.00	0.00	1.00	0.00
27.78	62.44	2.00	0.00	1.00	0.00	27.82	62.73	2.00	0.00	1.00	0.00
27.97	61.25	2.00	0.00	1.00	0.00	28.01	59.93	2.00	0.00	1.00	0.00
28.06	58.00	2.00	0.00	1.00	0.00	28.15	54.86	2.00	0.00	1.00	0.00
28.20	54.61	2.00	0.00	1.00	0.00	28.29	55.26	2.00	0.00	1.00	0.00
28.35	55.38	2.00	0.00	1.00	0.00	28.41	56.43	2.00	0.00	1.00	0.00
28.45	57.51	2.00	0.00	1.00	0.00	28.50	58.80	2.00	0.00	1.00	0.00
28.59	61.91	2.00	0.00	1.00	0.00	28.63	63.33	2.00	0.00	1.00	0.00
28.72	67.40	2.00	0.00	1.00	0.00	28.77	70.02	2.00	0.00	1.00	0.00
28.83	72.78	2.00	0.00	1.00	0.00	28.89	75.26	2.00	0.00	1.00	0.00
29.00	76.32	2.00	0.00	1.00	0.00	29.06	76.60	2.00	0.00	1.00	0.00
29.11	77.01	2.00	0.00	1.00	0.00	29.16	78.57	2.00	0.00	1.00	0.00
29.24	81.02	2.00	0.00	1.00	0.00	29.29	84.38	2.00	0.00	1.00	0.00
29.34	88.69	2.00	0.00	1.00	0.00	29.40	93.57	2.00	0.00	1.00	0.00
29.47	94.01	2.00	0.00	1.00	0.00	29.59	83.54	2.00	0.00	1.00	0.00
29.64	74.95	2.00	0.00	1.00	0.00	29.70	67.10	0.18	3.24	1.00	0.02
29.74	68.15	0.19	3.20	1.00	0.01	29.82	71.23	0.19	3.09	1.00	0.03
29.87	73.13	0.20	3.02	1.00	0.02	29.95	69.82	0.19	3.14	1.00	0.03
30.05	65.43	0.18	3.31	1.00	0.04	30.18	81.40	0.22	2.77	1.00	0.04
30.26	85.23	2.00	0.00	1.00	0.00	30.30	87.06	2.00	0.00	1.00	0.00
30.32	88.23	2.00	0.00	1.00	0.00	30.34	87.80	2.00	0.00	1.00	0.00
30.40	85.98	2.00	0.00	1.00	0.00	30.47	83.22	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)
30.52	81.72	2.00	0.00	1.00	0.00	30.60	78.83	2.00	0.00	1.00	0.00
30.66	75.96	2.00	0.00	1.00	0.00	30.73	72.94	2.00	0.00	1.00	0.00
30.82	72.28	2.00	0.00	1.00	0.00	30.87	69.28	2.00	0.00	1.00	0.00
30.92	68.45	2.00	0.00	1.00	0.00	31.04	68.42	2.00	0.00	1.00	0.00
31.09	69.09	2.00	0.00	1.00	0.00	31.17	68.94	2.00	0.00	1.00	0.00
31.22	68.90	2.00	0.00	1.00	0.00	31.29	68.59	2.00	0.00	1.00	0.00
31.35	68.24	2.00	0.00	1.00	0.00	31.40	68.30	2.00	0.00	1.00	0.00
31.48	68.60	2.00	0.00	1.00	0.00	31.53	68.58	2.00	0.00	1.00	0.00
31.58	68.82	2.00	0.00	1.00	0.00	31.74	72.41	2.00	0.00	1.00	0.00
31.80	74.24	2.00	0.00	1.00	0.00	31.86	74.99	2.00	0.00	1.00	0.00
31.92	75.07	2.00	0.00	1.00	0.00	31.98	74.91	2.00	0.00	1.00	0.00
32.04	75.64	2.00	0.00	1.00	0.00	32.10	77.67	2.00	0.00	1.00	0.00
32.16	80.17	2.00	0.00	1.00	0.00	32.23	82.86	2.00	0.00	1.00	0.00
32.29	87.56	2.00	0.00	1.00	0.00	32.36	93.11	2.00	0.00	1.00	0.00
32.42	95.65	2.00	0.00	1.00	0.00	32.49	97.87	2.00	0.00	1.00	0.00
32.62	100.23	2.00	0.00	1.00	0.00	32.68	101.92	2.00	0.00	1.00	0.00
32.74	101.45	2.00	0.00	1.00	0.00	32.81	99.64	2.00	0.00	1.00	0.00
32.87	98.90	2.00	0.00	1.00	0.00	32.93	99.41	2.00	0.00	1.00	0.00
32.98	102.43	2.00	0.00	1.00	0.00	33.05	107.87	2.00	0.00	1.00	0.00
33.12	92.80	2.00	0.00	1.00	0.00	33.19	87.25	2.00	0.00	1.00	0.00
33.25	93.52	2.00	0.00	1.00	0.00	33.30	98.86	2.00	0.00	1.00	0.00
33.38	104.33	2.00	0.00	1.00	0.00	33.43	107.83	2.00	0.00	1.00	0.00
33.50	113.35	2.00	0.00	1.00	0.00	33.55	116.68	2.00	0.00	1.00	0.00
33.61	120.58	2.00	0.00	1.00	0.00	33.68	122.87	2.00	0.00	1.00	0.00
33.75	122.66	2.00	0.00	1.00	0.00	33.81	123.03	2.00	0.00	1.00	0.00
33.89	119.61	2.00	0.00	1.00	0.00	33.94	116.06	2.00	0.00	1.00	0.00
34.07	130.81	2.00	0.00	1.00	0.00	34.12	131.94	2.00	0.00	1.00	0.00
34.18	131.52	2.00	0.00	1.00	0.00	34.29	127.24	2.00	0.00	1.00	0.00
34.38	123.06	2.00	0.00	1.00	0.00	34.43	122.15	0.43	1.98	1.00	0.01
34.55	132.39	0.51	1.86	1.00	0.03	34.61	138.39	0.56	1.79	1.00	0.01
34.69	147.55	2.00	0.00	1.00	0.00	34.75	153.81	2.00	0.00	1.00	0.00
34.82	157.42	2.00	0.00	1.00	0.00	34.88	156.37	2.00	0.00	1.00	0.00
34.95	148.25	2.00	0.00	1.00	0.00	35.07	136.84	2.00	0.00	1.00	0.00
35.14	138.40	2.00	0.00	1.00	0.00	35.20	142.52	2.00	0.00	1.00	0.00
35.26	142.51	2.00	0.00	1.00	0.00	35.33	143.86	2.00	0.00	1.00	0.00
35.39	142.29	2.00	0.00	1.00	0.00	35.46	140.24	2.00	0.00	1.00	0.00
35.53	138.90	0.57	1.78	1.00	0.01	35.57	137.07	0.55	1.80	1.00	0.01
35.64	136.13	0.54	1.81	1.00	0.02	35.70	133.71	0.52	1.84	1.00	0.01
35.77	130.90	0.50	1.87	1.00	0.02	35.83	130.07	0.49	1.88	1.00	0.01
35.89	124.26	0.45	1.96	1.00	0.01	35.97	125.14	0.45	1.94	1.00	0.02
36.01	126.86	0.47	1.92	1.00	0.01	36.14	129.27	0.49	1.89	1.00	0.03
36.19	125.48	0.46	1.94	1.00	0.01	36.23	125.30	0.45	1.94	1.00	0.01
36.30	125.80	0.46	1.94	1.00	0.02	36.36	126.62	0.46	1.93	1.00	0.01
36.45	127.54	0.47	1.91	1.00	0.02	36.50	131.76	0.51	1.86	1.00	0.01
36.62	135.38	0.54	1.82	1.00	0.03	36.67	137.81	0.56	1.80	1.00	0.01
36.72	139.74	0.58	1.78	1.00	0.01	36.80	141.29	0.59	1.76	1.00	0.02
36.84	143.84	0.62	1.73	1.00	0.01	36.91	146.47	0.64	1.71	1.00	0.01
36.97	151.14	0.69	1.37	1.00	0.01	37.02	156.93	0.76	1.05	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)
37.10	163.26	0.84	0.99	1.00	0.01	37.15	168.09	0.90	0.73	1.00	0.00
37.24	175.16	1.00	0.52	1.00	0.01	37.29	180.48	1.08	0.38	1.00	0.00
37.39	197.94	1.39	0.00	1.00	0.00	37.46	208.06	2.00	0.00	1.00	0.00
37.51	217.35	2.00	0.00	1.00	0.00	37.55	223.81	2.00	0.00	1.00	0.00
37.65	230.55	2.00	0.00	1.00	0.00	37.68	232.09	2.00	0.00	1.00	0.00
37.76	231.90	2.00	0.00	1.00	0.00	37.81	231.18	2.00	0.00	1.00	0.00
37.90	228.15	2.00	0.00	1.00	0.00	37.95	227.38	2.00	0.00	1.00	0.00
38.03	226.41	2.00	0.00	1.00	0.00	38.10	222.75	2.00	0.00	1.00	0.00
38.17	215.61	2.00	0.00	1.00	0.00	38.24	207.17	2.00	0.00	1.00	0.00
38.30	195.94	1.35	0.00	1.00	0.00	38.38	183.31	1.13	0.37	1.00	0.00
38.43	170.43	0.94	0.71	1.00	0.00	38.52	157.15	0.76	1.05	1.00	0.01
38.57	148.25	0.66	1.41	1.00	0.01	38.66	139.23	0.57	1.78	1.00	0.02
38.71	119.35	0.41	2.02	1.00	0.01	38.78	109.55	0.35	2.17	1.00	0.02
38.85	104.71	0.32	2.25	1.00	0.02	38.92	100.73	0.30	2.32	1.00	0.02
39.01	98.41	0.29	2.37	1.00	0.03	39.02	100.28	0.30	2.33	1.00	0.01
39.04	99.19	0.30	2.35	1.00	0.01	39.13	103.22	0.32	2.28	1.00	0.02
39.18	108.43	2.00	0.00	1.00	0.00	39.28	115.06	2.00	0.00	1.00	0.00
39.34	116.38	2.00	0.00	1.00	0.00	39.39	116.31	2.00	0.00	1.00	0.00
39.45	115.54	2.00	0.00	1.00	0.00	39.54	116.33	2.00	0.00	1.00	0.00
39.59	117.58	2.00	0.00	1.00	0.00	39.66	122.59	2.00	0.00	1.00	0.00
39.71	123.99	2.00	0.00	1.00	0.00	39.81	127.25	2.00	0.00	1.00	0.00
39.92	130.39	2.00	0.00	1.00	0.00	39.97	130.76	0.50	1.88	1.00	0.01
40.02	132.74	0.52	1.85	1.00	0.01	40.10	134.92	0.54	1.83	1.00	0.02
40.15	136.72	0.55	1.81	1.00	0.01	40.25	152.31	0.71	1.35	1.00	0.02
40.32	159.47	0.80	1.03	1.00	0.01	40.37	167.88	0.91	0.73	1.00	0.00
40.44	175.13	1.01	0.52	1.00	0.00	40.50	180.18	1.09	0.38	1.00	0.00
40.54	185.50	1.18	0.26	1.00	0.00	40.67	195.94	1.36	0.00	1.00	0.00
40.72	198.33	1.41	0.00	1.00	0.00	40.77	199.85	1.44	0.00	1.00	0.00
40.90	198.33	1.41	0.00	1.00	0.00	40.94	198.18	1.40	0.00	1.00	0.00
41.01	196.46	1.37	0.00	1.00	0.00	41.07	194.54	1.34	0.18	1.00	0.00
41.25	199.18	1.43	0.00	1.00	0.00	41.38	197.41	1.39	0.00	1.00	0.00
41.45	195.32	1.35	0.00	1.00	0.00	41.52	195.27	1.35	0.00	1.00	0.00
41.57	194.55	1.34	0.18	1.00	0.00	41.64	192.42	1.30	0.18	1.00	0.00
41.70	193.64	1.32	0.18	1.00	0.00	41.77	191.63	1.29	0.18	1.00	0.00
41.83	187.91	1.22	0.26	1.00	0.00	41.88	177.84	1.06	0.38	1.00	0.00
41.89	167.91	0.91	0.73	1.00	0.00	41.95	173.38	0.99	0.53	1.00	0.00
42.00	170.68	0.95	0.54	1.00	0.00	42.09	166.07	0.89	0.74	1.00	0.01
42.13	163.52	0.86	0.76	1.00	0.00	42.21	155.61	0.76	1.07	1.00	0.01
42.26	152.40	0.72	1.35	1.00	0.01	42.35	147.38	0.66	1.42	1.00	0.02
42.46	145.87	0.65	1.71	1.00	0.02	42.52	147.34	0.66	1.42	1.00	0.01
42.57	147.55	0.67	1.42	1.00	0.01	42.61	146.53	0.66	1.43	1.00	0.01
42.66	144.13	0.63	1.73	1.00	0.01	42.75	140.84	2.00	0.00	1.00	0.00
42.80	139.72	2.00	0.00	1.00	0.00	42.90	140.85	2.00	0.00	1.00	0.00
43.01	139.22	2.00	0.00	1.00	0.00	43.06	133.01	0.53	1.85	1.00	0.01
43.10	127.16	0.48	1.92	1.00	0.01	43.15	126.62	0.47	1.93	1.00	0.01
43.25	131.88	0.52	1.86	1.00	0.02	43.32	134.01	0.54	1.84	1.00	0.01
43.36	136.61	0.56	1.81	1.00	0.01	43.41	139.13	0.58	1.78	1.00	0.01
43.47	142.44	0.62	1.75	1.00	0.01	43.51	144.68	0.64	1.73	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)
43.68	147.78	0.67	1.41	1.00	0.03	43.72	147.47	0.67	1.42	1.00	0.01
43.78	147.16	0.67	1.42	1.00	0.01	43.81	146.71	0.66	1.43	1.00	0.01
43.89	147.07	0.67	1.42	1.00	0.01	43.94	147.69	0.67	1.41	1.00	0.01
43.98	148.20	0.68	1.41	1.00	0.01	44.04	149.27	0.69	1.39	1.00	0.01
44.11	151.06	0.71	1.37	1.00	0.01	44.20	155.87	0.77	1.06	1.00	0.01
44.25	160.06	0.82	1.02	1.00	0.01	44.31	165.37	0.89	0.74	1.00	0.00
44.38	173.27	1.00	0.53	1.00	0.00	44.43	182.60	1.15	0.37	1.00	0.00
44.51	192.18	1.32	0.18	1.00	0.00	44.56	196.62	1.40	0.00	1.00	0.00
44.64	194.42	1.36	0.00	1.00	0.00	44.69	194.39	1.36	0.00	1.00	0.00
44.77	192.48	1.33	0.18	1.00	0.00	44.86	188.80	1.26	0.18	1.00	0.00
44.90	187.32	1.23	0.26	1.00	0.00	44.95	186.08	1.21	0.26	1.00	0.00
45.03	183.01	1.16	0.27	1.00	0.00	45.12	174.32	1.02	0.53	1.00	0.01
45.17	163.01	0.86	0.76	1.00	0.00	45.23	152.05	0.73	1.36	1.00	0.01
45.35	138.86	0.59	1.79	1.00	0.02	45.43	134.08	0.54	1.84	1.00	0.02
45.49	131.61	0.52	1.87	1.00	0.01	45.56	137.82	2.00	0.00	1.00	0.00
45.61	140.07	2.00	0.00	1.00	0.00	45.69	135.55	2.00	0.00	1.00	0.00
45.74	137.30	2.00	0.00	1.00	0.00	45.87	142.57	2.00	0.00	1.00	0.00
45.93	142.53	2.00	0.00	1.00	0.00	46.05	143.35	2.00	0.00	1.00	0.00
46.18	145.67	2.00	0.00	1.00	0.00	46.23	146.34	2.00	0.00	1.00	0.00
46.31	148.60	2.00	0.00	1.00	0.00	46.37	150.09	2.00	0.00	1.00	0.00
46.49	156.18	2.00	0.00	1.00	0.00	46.58	162.62	2.00	0.00	1.00	0.00
46.62	166.29	2.00	0.00	1.00	0.00	46.68	170.78	2.00	0.00	1.00	0.00
46.76	179.42	2.00	0.00	1.00	0.00	46.81	159.00	2.00	0.00	1.00	0.00
46.89	138.18	0.59	1.79	1.00	0.02	46.94	143.37	0.64	1.74	1.00	0.01
47.02	148.52	0.70	1.40	1.00	0.01	47.08	151.79	0.73	1.36	1.00	0.01
47.12	153.96	0.76	1.08	1.00	0.00	47.21	161.21	0.85	0.77	1.00	0.01
47.25	162.90	0.87	0.76	1.00	0.00	47.32	164.79	0.90	0.75	1.00	0.01
47.39	164.72	0.90	0.75	1.00	0.01	47.46	164.02	0.89	0.75	1.00	0.01
47.53	165.05	0.91	0.75	1.00	0.01	47.61	164.34	0.90	0.75	1.00	0.01
47.66	162.95	0.88	0.76	1.00	0.00	47.75	156.22	0.79	1.06	1.00	0.01
47.78	153.15	0.75	1.09	1.00	0.00	47.88	148.06	0.70	1.41	1.00	0.02
47.92	145.36	0.67	1.45	1.00	0.01	47.97	140.65	0.62	1.77	1.00	0.01
48.05	133.32	0.55	1.85	1.00	0.02	48.11	122.41	0.46	1.98	1.00	0.01
48.19	122.84	0.46	1.97	1.00	0.02	48.24	122.75	0.46	1.98	1.00	0.01
48.32	120.87	0.45	2.00	1.00	0.02	48.36	119.70	2.00	0.00	1.00	0.00
48.45	119.83	2.00	0.00	1.00	0.00	48.53	120.06	2.00	0.00	1.00	0.00
48.58	126.64	2.00	0.00	1.00	0.00	48.71	139.13	2.00	0.00	1.00	0.00
48.76	142.56	2.00	0.00	1.00	0.00	48.80	145.53	2.00	0.00	1.00	0.00
48.85	147.84	2.00	0.00	1.00	0.00	48.89	149.67	2.00	0.00	1.00	0.00
48.96	150.80	2.00	0.00	1.00	0.00	49.05	151.12	2.00	0.00	1.00	0.00
49.08	150.69	2.00	0.00	1.00	0.00	49.16	147.72	0.70	1.41	1.00	0.01
49.24	141.61	0.63	1.76	1.00	0.02	49.28	138.75	0.61	1.79	1.00	0.01
49.38	135.50	0.57	1.82	1.00	0.02	49.42	135.08	0.57	1.83	1.00	0.01
49.49	135.78	0.58	1.82	1.00	0.02	49.57	141.25	0.63	1.76	1.00	0.02
49.62	144.41	0.67	1.46	1.00	0.01	49.69	150.21	0.73	1.38	1.00	0.01
49.77	-1.00	2.00	0.00	1.00	0.00	49.82	-1.00	2.00	0.00	1.00	0.00
49.90	-1.00	2.00	0.00	1.00	0.00	49.95	-1.00	2.00	0.00	1.00	0.00
50.00	-1.00	2.00	0.00	1.00	0.00	50.10	-1.00	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)

Total estimated settlement: 5.08

Abbreviations

$Q_{tn,cs}$:	Equivalent clean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

APPENDIX E

REFERENCE NO. 3 EXCERPTS

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-8

JOB NO.: 21G201-2
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 8/3/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 7 feet
CAVE DEPTH: 9 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic concrete; 4± inches Aggregate base							
		11			FILL: Gray Brown Silty fine Sand, mottled, loose-damp to moist	109	10					
		23				112	7					
5		13			ALLUVIUM: Light Gray fine Sand, trace medium to coarse Sand, loose to medium dense-damp	99	2					
		26				92	9					
		16				96	25					
10					Gray Silty Clay, stiff-wet							
					Gray Brown Silty fine Sand, loose-wet							
		8				97	24					
15					Dark Gray Brown Silty Clay, trace Iron oxide staining, medium stiff-wet							
					Gray Brown fine Sandy Silt, trace Clay, little Iron oxide staining, medium dense-wet							
		17	1.5			98	29					
20												
		12	2.5			100	24					
25												
					Gray fine Sandy Silt, little to some Clay, loose-wet							
		6	1.5			103	22					
30					Boring Terminated @ 30'							

TBL 21G201-2.GPJ SOCALGEO.GDT 10/5/21

TEST BORING LOG **PLATE B-4**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-9

JOB NO.: 21G201-2
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 8/3/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 7 feet
CAVE DEPTH: 9 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					4± inches Asphaltic concrete; 5± inches Aggregate base							
		7			FILL: Gray Brown Silty fine Sand, loose-moist		9					
		12			FILL: Gray Brown to Light Gray Brown fine Sand, mottled, medium dense-damp		4					
5												
		7			ALLUVIUM: Light Gray fine Sand, trace medium Sand, loose-wet		30					
		9	1.0		Gray Brown fine Sandy Silt, little to some Clay, trace Calcareous nodules, loose-wet		32					
10												
					Gray Brown Silty Clay, little Calcareous nodules, trace Iron oxide staining, soft to medium stiff-wet							
		4	1.5				36					
15												
					Gray Brown Silty fine Sand, trace medium to coarse Sand, medium dense-wet							
		15					27					
20												
					Boring Terminated @ 20'							

TBL 21G201-2.GPJ SOCALGEO.GDT 10/5/21

TEST BORING LOG

PLATE B-5

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-10

JOB NO.: 21G201-2
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 8/3/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 8.5 feet
CAVE DEPTH: 26 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic concrete; 5± inches Aggregate base							
		7			FILL: Gray Brown Silty fine Sand, mottled, loose-moist		18					
			4.0		FILL: Dark Gray Clayey fine Sand, mottled, loose-moist		14					
		6			FILL: Gray Brown Silty fine Sand, slightly mottled, loose-damp		9					
5												
		18			ALLUVIUM: Gray Brown fine Sand, trace Silt, 2-inch fine Sand lense, medium dense-damp		7					
		11			Gray Brown Silty fine Sand, trace Iron oxide staining, medium dense-wet		25					
10												
					Gray fine Sand, little Silt, very loose to loose-wet							
		4					26					
15												
					Gray Brown fine Sandy Silt, little Clay, loose-wet							
		8	2.0				27					
20												
					Gray to Gray Brown Interbedded fine Sand and Silty fine Sand, loose-wet							
		8					27					
25												
					Dark Gray Silty Clay, trace Calcareous nodules, stiff-wet							
		10	2.0				26					
30												
					Boring Terminated @ 30'							

TBL 21G201-2.GPJ SOCALGEO.GDT 10/5/21

TEST BORING LOG

PLATE B-6

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-11

JOB NO.: 21G201-2
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 8/3/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 7 feet
CAVE DEPTH: 14 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					4± inches Asphaltic concrete; 5± inches Aggregate base							
		22			FILL: Gray Brown Silty fine Sand, mottled, medium dense-moist	116	12					
		22				108	13					
5		28			ALLUVIUM: Light Gray fine Sand, medium dense-damp	95	4					
		7			Gray Brown fine Sandy Silt, little Iron oxide staining, loose-very moist to wet	92	32					
		13			Gray Brown fine Sand, trace Silt, loose-wet	103	23					
10												
					Gray Brown Silty Clay, trace Calcareous nodules, loose-wet							
		8	2.5			98	27					
15												
					Gray Brown Silty fine Sand, little Iron oxide staining, medium dense-wet							
		18				109	20					
20												
					Boring Terminated @ 20'							

TBL 21G201-2.GPJ SOCALGEO.GDT 10/5/21

TEST BORING LOG

PLATE B-7

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-12

JOB NO.: 21G201-2
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 8/4/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 9 feet
CAVE DEPTH: 16 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					5½± inches Portland cement concrete							
		29	4.5		FILL: Gray Brown to Gray Silty fine Sand, trace Clay nodules, slightly mottled, medium dense-moist	112	14					
		19	4.5			113	12					
5		23	1.5			101	10					
		25			ALLUVIUM: Light Gray fine Sand, medium dense-moist	98	5					
		9			Gray Brown Silty fine Sand, loose-wet	100	23					
10												
					Gray Brown Silty Clay, little fine Sand, little Iron oxide staining, medium stiff-wet							
		11				96	25					
15												
		9	1.0			96	29					
20					Boring Terminated @ 20'							

TBL 21G201-2.GPJ SOCALGEO.GDT 10/5/21

TEST BORING LOG

PLATE B-8

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-13

JOB NO.: 21G201-2 | DRILLING DATE: 8/4/21 | WATER DEPTH: 8.5 feet
PROJECT: Proposed C/I Development | DRILLING METHOD: Hollow Stem Auger | CAVE DEPTH: 17 feet
LOCATION: Cypress, California | LOGGED BY: Jamie Hayward | READING TAKEN: At Completion

DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					6± inches Portland cement concrete							
		15	3.0		FILL: Gray Brown Silty fine Sand, trace medium Sand, trace fine Gravel, 2-inch fine Sand lense, medium dense-moist		14					
		13	2.0				11					
5												
		17	3.0		FILL: Gray Brown Silty Clay, trace fine Sand, mottled, very stiff-very moist		29					
		16			ALLUVIUM: Gray Silty fine Sand, medium dense-wet ▽		22					
10												
					Gray fine Sandy Silt, loose-wet							
		5					30					
15												
					Gray Silty Clay, little Calcareous nodules, trace Iron oxide staining, medium stiff-wet							
		7	1.5				36					
20												
					Boring Terminated @ 20'							

TBL 21G201-2.GPJ SOCALGEO.GDT 10/5/21

TEST BORING LOG **PLATE B-9**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-14

JOB NO.: 21G201-2 | DRILLING DATE: 8/3/21 | WATER DEPTH: 5 feet
PROJECT: Proposed C/I Development | DRILLING METHOD: Hollow Stem Auger | CAVE DEPTH: 14 feet
LOCATION: Cypress, California | LOGGED BY: Jamie Hayward | READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic concrete; 5± inches Aggregate base							
		24	4.5		FILL: Gray Brown fine Sandy Clay, little Silt, medium dense-moist	104	19					
		12			ALLUVIUM: Gray Brown Silty fine Sand, loose-moist	102	21					
5		11				95	28					
		8				100	23					
		13			@ 9 feet, wet	97	23					
10												
		11				95	23					
15												
		18	3.0		@ 19 feet, little Clay	97	27					
20												
					Gray Brown fine Sand, little Silt, little Iron oxide staining, medium dense-wet							
		26				108	19					
25												
					Gray Silty Clay, trace Iron oxide staining, medium stiff to stiff-wet							
		12	1.5			99	25					
30												
					Boring Terminated @ 30'							

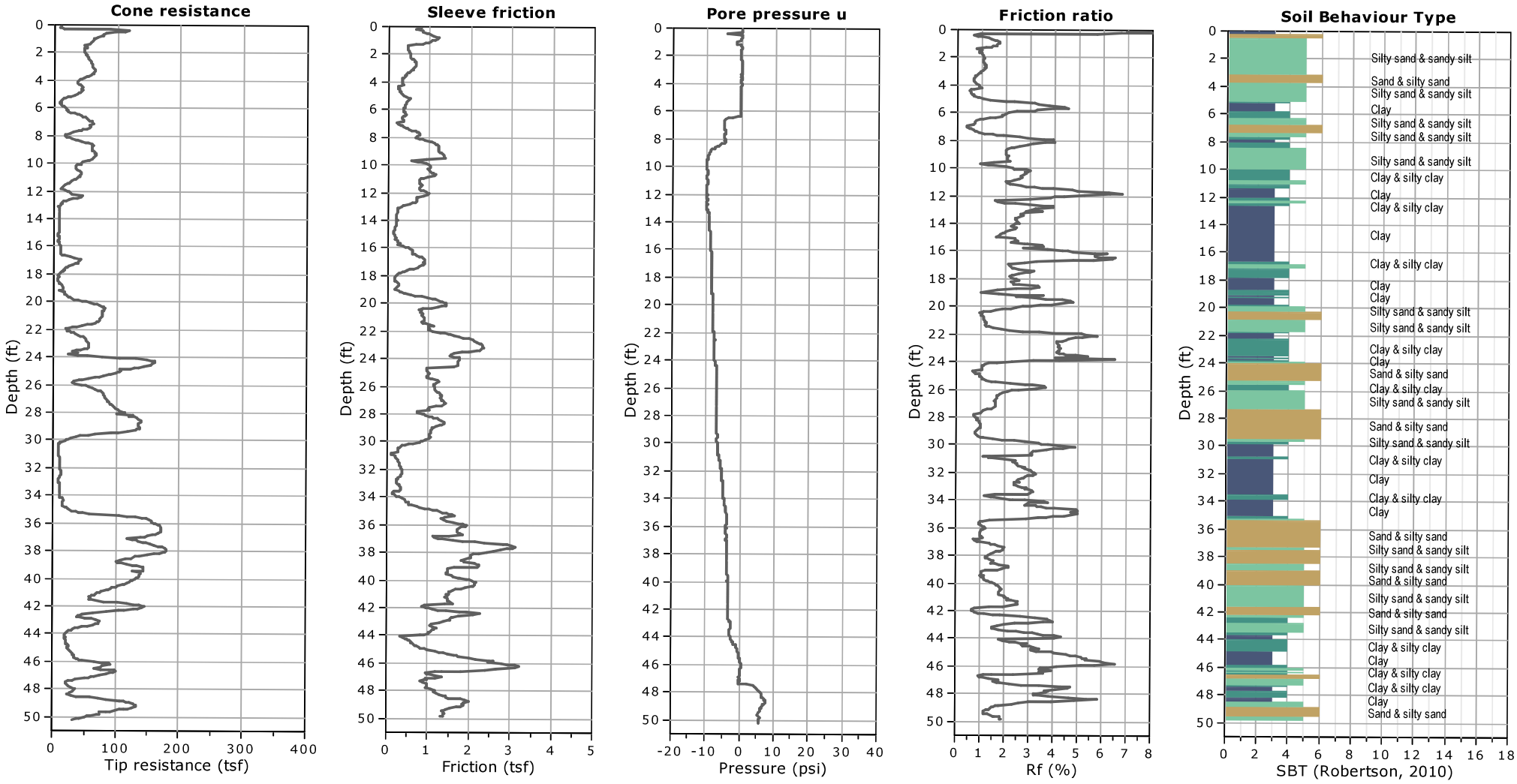
TBL 21G201-2.GPJ SOCALGEO.GDT 10/5/21

TEST BORING LOG **PLATE B-10**

Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

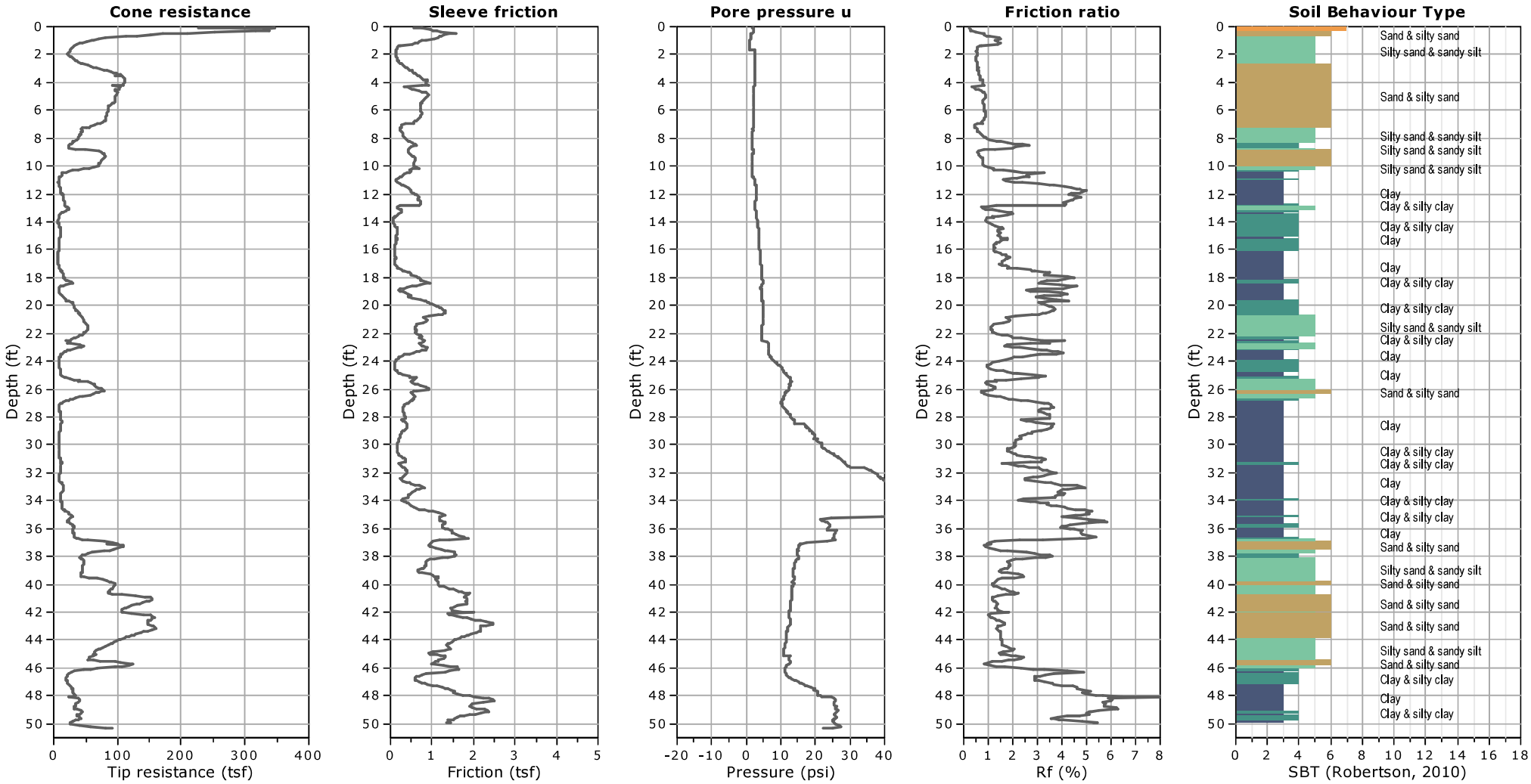
Project: Southern California Geotechnical
Location: 5665 Plaza Dr, Cypress, CA

CPT-1
Total depth: 50.22 ft, Date: 4/2/2021



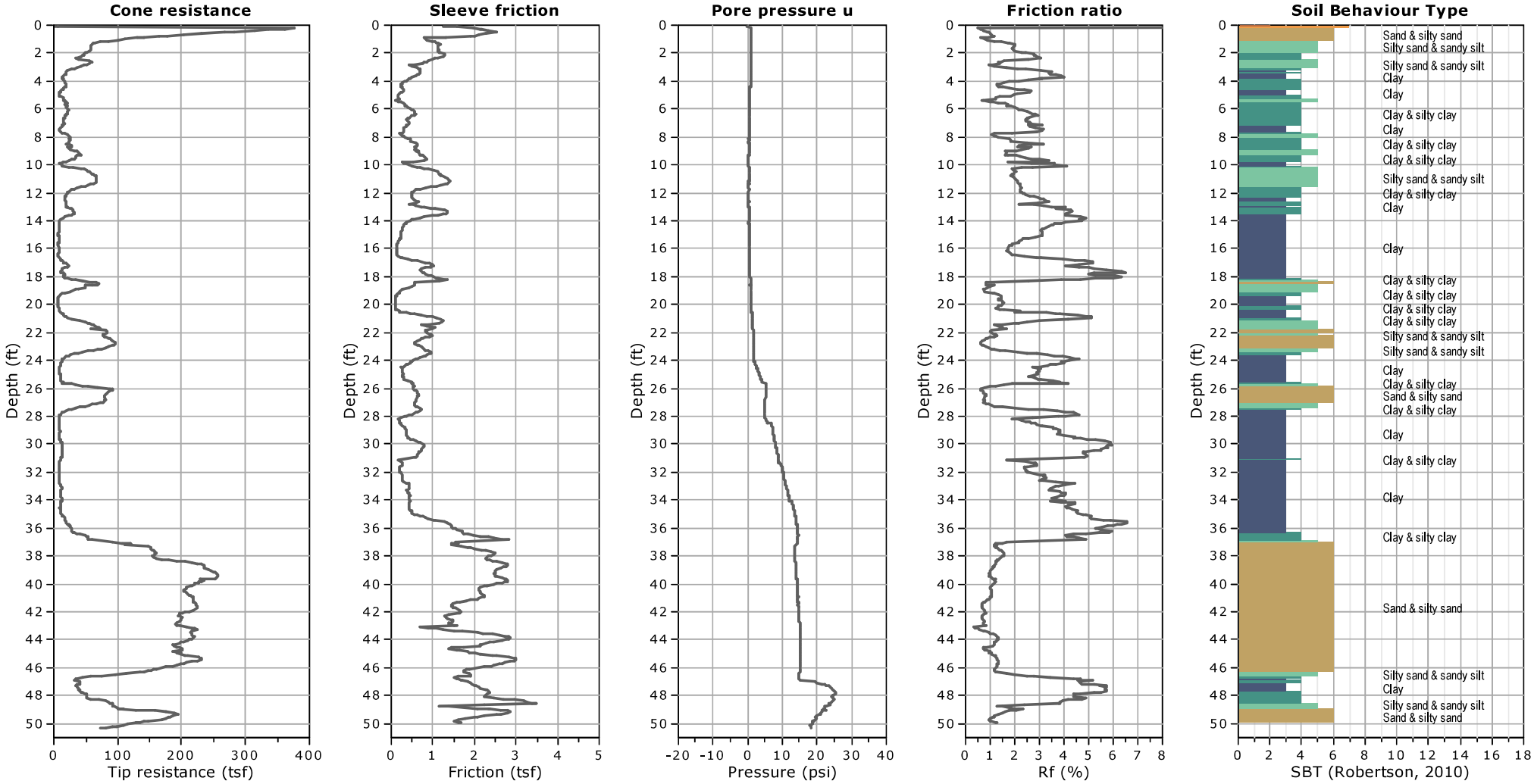
Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: **Southern California Geotechnical** **CPT-2**
Location: **5665 Plaza Dr, Cypress, CA** Total depth: 50.33 ft, Date: 4/2/2021



Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

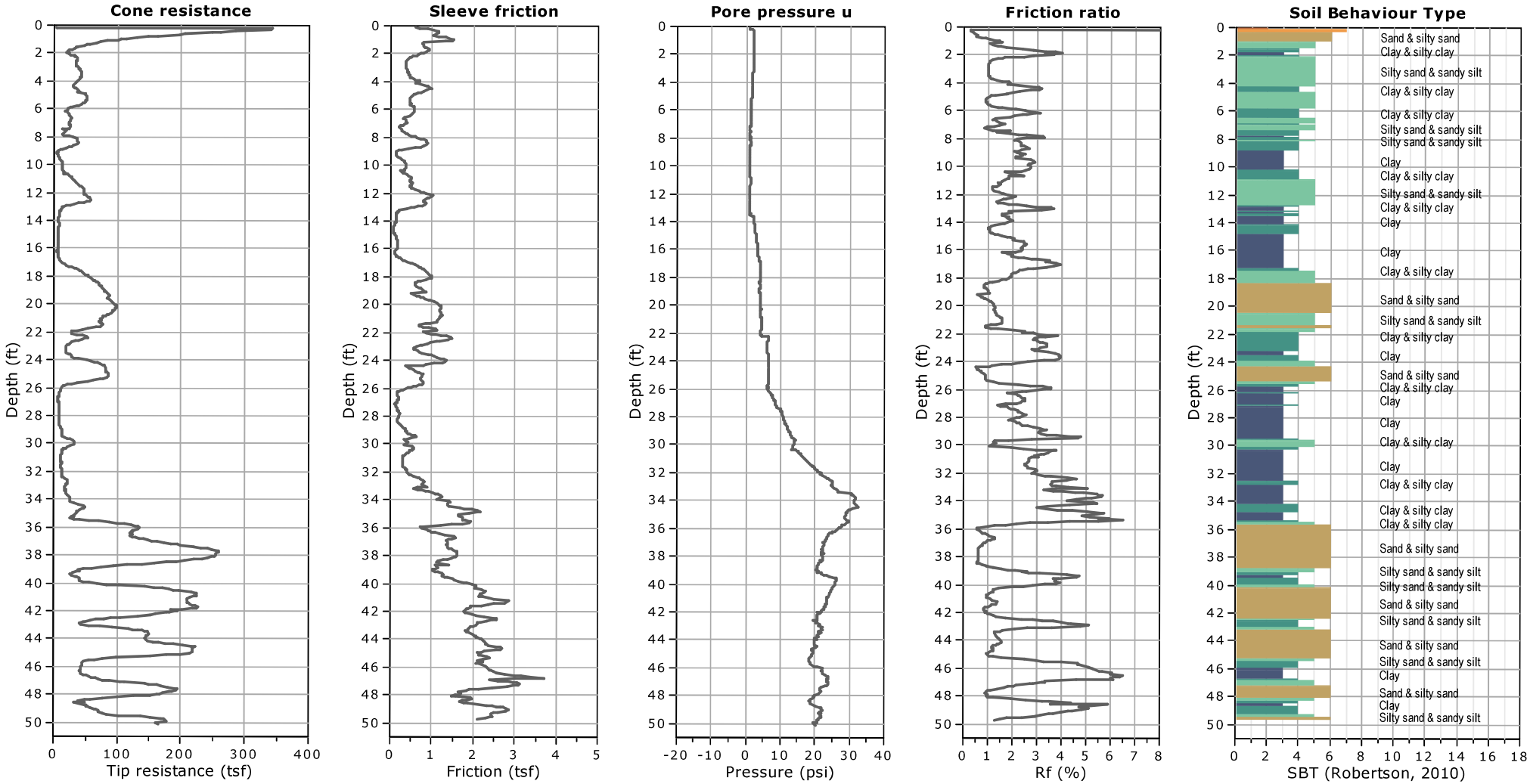
Project: **Southern California Geotechnical** **CPT-3**
Location: **5665 Plaza Dr, Cypress, CA** Total depth: 50.35 ft, Date: 4/2/2021



Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: Southern California Geotechnical
Location: 5665 Plaza Dr, Cypress, CA

CPT-4
Total depth: 50.10 ft, Date: 4/2/2021



:: Post-earthquake settlement due to soil liquefaction ::

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
5.08	14.32	2.00	0.00	1.00	0.00	5.13	18.64	2.00	0.00	1.00	0.00
5.21	78.23	2.00	0.00	1.00	0.00	5.26	79.99	2.00	0.00	1.00	0.00
5.34	77.33	2.00	0.00	1.00	0.00	5.39	78.83	0.29	4.07	1.00	0.02
5.47	82.91	0.30	3.87	1.00	0.04	5.52	86.73	0.30	3.71	1.00	0.02
5.60	90.42	0.31	3.56	1.00	0.03	5.63	86.99	0.30	3.70	1.00	0.01
5.66	86.26	0.30	3.73	1.00	0.02	5.74	89.96	0.31	3.57	1.00	0.03
5.78	89.37	0.30	3.60	1.00	0.02	5.85	90.24	0.31	3.56	1.00	0.03
5.94	92.72	0.31	3.47	1.00	0.04	6.00	94.94	0.32	3.39	1.00	0.02
6.06	96.33	0.32	3.34	1.00	0.02	6.10	96.73	2.00	0.00	1.00	0.00
6.20	95.72	2.00	0.00	1.00	0.00	6.26	94.21	2.00	0.00	1.00	0.00
6.32	93.48	2.00	0.00	1.00	0.00	6.37	92.62	2.00	0.00	1.00	0.00
6.46	30.03	2.00	0.00	1.00	0.00	6.51	28.92	2.00	0.00	1.00	0.00
6.63	27.10	2.00	0.00	1.00	0.00	6.69	25.03	2.00	0.00	1.00	0.00
6.76	25.03	2.00	0.00	1.00	0.00	6.81	25.03	2.00	0.00	1.00	0.00
6.86	25.02	2.00	0.00	1.00	0.00	6.94	25.12	2.00	0.00	1.00	0.00
7.00	25.65	2.00	0.00	1.00	0.00	7.08	25.53	2.00	0.00	1.00	0.00
7.11	20.81	2.00	0.00	1.00	0.00	7.18	22.94	2.00	0.00	1.00	0.00
7.22	21.07	2.00	0.00	1.00	0.00	7.34	16.86	2.00	0.00	1.00	0.00
7.40	14.70	2.00	0.00	1.00	0.00	7.46	14.24	2.00	0.00	1.00	0.00
7.52	14.44	2.00	0.00	1.00	0.00	7.58	14.26	2.00	0.00	1.00	0.00
7.65	16.27	2.00	0.00	1.00	0.00	7.71	20.70	2.00	0.00	1.00	0.00
7.78	82.19	2.00	0.00	1.00	0.00	7.82	85.67	2.00	0.00	1.00	0.00
7.90	87.69	0.26	3.67	1.00	0.03	7.96	89.17	0.26	3.61	1.00	0.03
8.02	90.93	0.27	3.54	1.00	0.03	8.10	90.57	0.27	3.55	1.00	0.03
8.16	93.38	0.27	3.44	1.00	0.02	8.24	93.09	0.27	3.45	1.00	0.04
8.30	92.01	0.27	3.50	1.00	0.03	8.38	91.63	0.26	3.51	1.00	0.03
8.42	93.07	0.27	3.46	1.00	0.02	8.49	28.41	2.00	0.00	1.00	0.00
8.55	92.70	0.27	3.47	1.00	0.02	8.61	97.42	0.28	3.30	1.00	0.02
8.68	95.52	0.27	3.37	1.00	0.03	8.73	89.95	2.00	0.00	1.00	0.00
8.81	90.81	2.00	0.00	1.00	0.00	8.86	92.94	2.00	0.00	1.00	0.00
8.99	101.32	2.00	0.00	1.00	0.00	9.04	104.31	2.00	0.00	1.00	0.00
9.12	107.93	0.31	2.97	1.00	0.03	9.26	110.49	2.00	0.00	1.00	0.00
9.30	110.83	2.00	0.00	1.00	0.00	9.34	106.11	2.00	0.00	1.00	0.00
9.39	105.16	2.00	0.00	1.00	0.00	9.48	103.56	2.00	0.00	1.00	0.00
9.55	102.12	2.00	0.00	1.00	0.00	9.60	98.25	2.00	0.00	1.00	0.00
9.68	91.59	2.00	0.00	1.00	0.00	9.74	25.76	2.00	0.00	1.00	0.00
9.79	77.04	0.22	4.16	1.00	0.03	9.87	16.20	2.00	0.00	1.00	0.00
9.92	13.25	2.00	0.00	1.00	0.00	10.00	16.48	2.00	0.00	1.00	0.00
10.06	16.79	2.00	0.00	1.00	0.00	10.14	89.39	2.00	0.00	1.00	0.00
10.18	97.85	2.00	0.00	1.00	0.00	10.26	111.15	2.00	0.00	1.00	0.00
10.31	117.03	2.00	0.00	1.00	0.00	10.37	122.45	2.00	0.00	1.00	0.00
10.47	125.88	0.38	2.52	1.00	0.03	10.51	127.16	0.38	2.49	1.00	0.01
10.62	129.94	0.40	2.44	1.00	0.03	10.67	132.38	0.42	2.39	1.00	0.01
10.75	134.57	0.44	2.34	1.00	0.02	10.80	135.98	0.45	2.32	1.00	0.01
10.87	137.42	0.46	2.29	1.00	0.02	10.93	138.30	0.47	2.27	1.00	0.02
11.02	138.91	0.47	2.26	1.00	0.02	11.07	139.13	0.47	2.26	1.00	0.01
11.14	139.18	0.47	2.26	1.00	0.02	11.20	139.11	0.47	2.26	1.00	0.02
11.25	137.96	0.46	2.28	1.00	0.01	11.32	135.28	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
11.38	131.13	2.00	0.00	1.00	0.00	11.45	125.66	2.00	0.00	1.00	0.00
11.51	119.90	2.00	0.00	1.00	0.00	11.57	112.76	2.00	0.00	1.00	0.00
11.64	104.75	2.00	0.00	1.00	0.00	11.71	97.93	2.00	0.00	1.00	0.00
11.77	92.80	2.00	0.00	1.00	0.00	11.90	87.07	2.00	0.00	1.00	0.00
11.95	86.15	2.00	0.00	1.00	0.00	12.03	85.71	0.22	3.75	1.00	0.03
12.09	85.07	0.22	3.78	1.00	0.03	12.16	83.90	0.21	3.83	1.00	0.03
12.21	24.43	2.00	0.00	1.00	0.00	12.28	23.21	2.00	0.00	1.00	0.00
12.34	22.10	2.00	0.00	1.00	0.00	12.42	21.74	2.00	0.00	1.00	0.00
12.47	21.71	2.00	0.00	1.00	0.00	12.54	22.53	2.00	0.00	1.00	0.00
12.60	23.45	2.00	0.00	1.00	0.00	12.67	24.37	2.00	0.00	1.00	0.00
12.74	25.09	2.00	0.00	1.00	0.00	12.80	82.25	0.21	3.90	1.00	0.03
12.87	24.18	2.00	0.00	1.00	0.00	12.92	24.24	2.00	0.00	1.00	0.00
12.99	26.20	2.00	0.00	1.00	0.00	13.02	24.48	2.00	0.00	1.00	0.00
13.09	30.99	2.00	0.00	1.00	0.00	13.13	95.94	0.24	3.35	1.00	0.02
13.23	36.90	2.00	0.00	1.00	0.00	13.26	36.87	2.00	0.00	1.00	0.00
13.36	37.89	2.00	0.00	1.00	0.00	13.40	100.99	0.25	3.18	1.00	0.02
13.49	100.85	0.25	3.19	1.00	0.03	13.54	98.88	0.24	3.25	1.00	0.02
13.60	34.10	2.00	0.00	1.00	0.00	13.65	29.88	2.00	0.00	1.00	0.00
13.75	21.25	2.00	0.00	1.00	0.00	13.79	18.00	2.00	0.00	1.00	0.00
13.89	14.07	2.00	0.00	1.00	0.00	13.93	13.32	2.00	0.00	1.00	0.00
13.98	11.93	2.00	0.00	1.00	0.00	14.11	11.38	2.00	0.00	1.00	0.00
14.15	11.15	2.00	0.00	1.00	0.00	14.20	11.04	2.00	0.00	1.00	0.00
14.27	10.48	2.00	0.00	1.00	0.00	14.33	10.47	2.00	0.00	1.00	0.00
14.38	10.46	2.00	0.00	1.00	0.00	14.46	10.40	2.00	0.00	1.00	0.00
14.54	10.33	2.00	0.00	1.00	0.00	14.59	10.21	2.00	0.00	1.00	0.00
14.66	10.09	2.00	0.00	1.00	0.00	14.78	9.34	2.00	0.00	1.00	0.00
14.85	9.22	2.00	0.00	1.00	0.00	14.91	9.11	2.00	0.00	1.00	0.00
14.99	9.10	2.00	0.00	1.00	0.00	15.04	9.09	2.00	0.00	1.00	0.00
15.12	9.39	2.00	0.00	1.00	0.00	15.17	9.90	2.00	0.00	1.00	0.00
15.23	10.52	2.00	0.00	1.00	0.00	15.30	10.92	2.00	0.00	1.00	0.00
15.34	10.91	2.00	0.00	1.00	0.00	15.48	10.06	2.00	0.00	1.00	0.00
15.54	9.53	2.00	0.00	1.00	0.00	15.61	9.09	2.00	0.00	1.00	0.00
15.66	8.77	2.00	0.00	1.00	0.00	15.73	8.67	2.00	0.00	1.00	0.00
15.78	8.97	2.00	0.00	1.00	0.00	15.97	10.09	2.00	0.00	1.00	0.00
16.02	10.08	2.00	0.00	1.00	0.00	16.03	10.08	2.00	0.00	1.00	0.00
16.11	10.07	2.00	0.00	1.00	0.00	16.14	10.26	2.00	0.00	1.00	0.00
16.29	9.10	2.00	0.00	1.00	0.00	16.33	8.79	2.00	0.00	1.00	0.00
16.45	8.77	2.00	0.00	1.00	0.00	16.49	8.76	2.00	0.00	1.00	0.00
16.56	8.75	2.00	0.00	1.00	0.00	16.63	9.36	2.00	0.00	1.00	0.00
16.67	10.37	2.00	0.00	1.00	0.00	16.75	11.58	2.00	0.00	1.00	0.00
16.80	13.19	2.00	0.00	1.00	0.00	16.87	14.97	2.00	0.00	1.00	0.00
16.93	16.56	2.00	0.00	1.00	0.00	16.99	18.44	2.00	0.00	1.00	0.00
17.06	21.39	2.00	0.00	1.00	0.00	17.11	24.82	2.00	0.00	1.00	0.00
17.18	27.81	2.00	0.00	1.00	0.00	17.24	27.68	2.00	0.00	1.00	0.00
17.30	23.65	2.00	0.00	1.00	0.00	17.37	19.09	2.00	0.00	1.00	0.00
17.43	16.20	2.00	0.00	1.00	0.00	17.51	14.19	2.00	0.00	1.00	0.00
17.64	13.35	2.00	0.00	1.00	0.00	17.68	13.34	2.00	0.00	1.00	0.00
17.75	17.48	2.00	0.00	1.00	0.00	17.82	19.22	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
17.88	19.10	2.00	0.00	1.00	0.00	17.94	18.48	2.00	0.00	1.00	0.00
17.99	18.46	2.00	0.00	1.00	0.00	18.08	20.57	2.00	0.00	1.00	0.00
18.12	24.62	2.00	0.00	1.00	0.00	18.21	31.00	2.00	0.00	1.00	0.00
18.26	101.50	2.00	0.00	1.00	0.00	18.32	111.11	2.00	0.00	1.00	0.00
18.39	109.37	2.00	0.00	1.00	0.00	18.44	107.67	2.00	0.00	1.00	0.00
18.52	106.43	2.00	0.00	1.00	0.00	18.57	107.18	0.24	2.99	1.00	0.02
18.62	108.53	0.25	2.95	1.00	0.02	18.64	105.72	0.24	3.03	1.00	0.01
18.74	103.46	0.23	3.10	1.00	0.04	18.78	99.55	2.00	0.00	1.00	0.00
18.88	91.80	2.00	0.00	1.00	0.00	18.92	87.95	2.00	0.00	1.00	0.00
19.05	81.45	2.00	0.00	1.00	0.00	19.15	74.45	2.00	0.00	1.00	0.00
19.22	15.21	2.00	0.00	1.00	0.00	19.27	12.38	2.00	0.00	1.00	0.00
19.34	10.42	2.00	0.00	1.00	0.00	19.40	8.95	2.00	0.00	1.00	0.00
19.46	8.07	2.00	0.00	1.00	0.00	19.53	7.19	2.00	0.00	1.00	0.00
19.59	7.56	2.00	0.00	1.00	0.00	19.66	7.66	2.00	0.00	1.00	0.00
19.71	7.07	2.00	0.00	1.00	0.00	19.79	6.87	2.00	0.00	1.00	0.00
19.84	6.87	2.00	0.00	1.00	0.00	19.91	6.66	2.00	0.00	1.00	0.00
19.98	7.23	2.00	0.00	1.00	0.00	20.03	7.62	2.00	0.00	1.00	0.00
20.11	8.00	2.00	0.00	1.00	0.00	20.21	8.28	2.00	0.00	1.00	0.00
20.28	8.66	2.00	0.00	1.00	0.00	20.34	9.04	2.00	0.00	1.00	0.00
20.40	9.51	2.00	0.00	1.00	0.00	20.46	10.07	2.00	0.00	1.00	0.00
20.52	11.03	2.00	0.00	1.00	0.00	20.58	11.96	2.00	0.00	1.00	0.00
20.64	13.66	2.00	0.00	1.00	0.00	20.69	15.73	2.00	0.00	1.00	0.00
20.76	17.59	2.00	0.00	1.00	0.00	20.81	19.26	2.00	0.00	1.00	0.00
20.88	21.01	2.00	0.00	1.00	0.00	20.94	23.05	2.00	0.00	1.00	0.00
21.05	31.05	2.00	0.00	1.00	0.00	21.17	105.87	2.00	0.00	1.00	0.00
21.23	112.53	2.00	0.00	1.00	0.00	21.30	116.08	2.00	0.00	1.00	0.00
21.35	119.20	2.00	0.00	1.00	0.00	21.43	117.81	2.00	0.00	1.00	0.00
21.48	115.02	2.00	0.00	1.00	0.00	21.53	119.31	0.28	2.67	1.00	0.02
21.61	125.14	0.30	2.54	1.00	0.02	21.65	127.16	0.31	2.49	1.00	0.01
21.71	126.14	0.31	2.52	1.00	0.02	21.72	118.46	0.27	2.69	1.00	0.00
21.83	121.10	0.28	2.63	1.00	0.04	21.91	120.01	0.28	2.65	1.00	0.02
21.96	120.83	0.28	2.64	1.00	0.02	22.01	122.26	0.29	2.60	1.00	0.02
22.09	124.79	0.30	2.55	1.00	0.02	22.14	126.09	0.31	2.52	1.00	0.01
22.21	127.24	0.31	2.49	1.00	0.02	22.27	125.56	0.30	2.53	1.00	0.02
22.34	120.55	0.28	2.64	1.00	0.02	22.40	115.34	0.26	2.77	1.00	0.02
22.46	110.97	0.25	2.88	1.00	0.02	22.53	106.26	0.23	3.02	1.00	0.02
22.58	101.24	0.22	3.17	1.00	0.02	22.71	100.35	0.22	3.20	1.00	0.05
22.76	101.55	0.22	3.16	1.00	0.02	22.89	100.77	2.00	0.00	1.00	0.00
22.95	103.87	2.00	0.00	1.00	0.00	23.02	111.65	2.00	0.00	1.00	0.00
23.07	115.93	2.00	0.00	1.00	0.00	23.16	118.24	2.00	0.00	1.00	0.00
23.21	117.89	2.00	0.00	1.00	0.00	23.28	116.28	2.00	0.00	1.00	0.00
23.34	112.76	2.00	0.00	1.00	0.00	23.42	106.74	2.00	0.00	1.00	0.00
23.46	99.49	2.00	0.00	1.00	0.00	23.53	92.59	2.00	0.00	1.00	0.00
23.59	27.15	2.00	0.00	1.00	0.00	23.68	23.91	2.00	0.00	1.00	0.00
23.73	20.76	2.00	0.00	1.00	0.00	23.79	17.36	2.00	0.00	1.00	0.00
23.86	14.74	2.00	0.00	1.00	0.00	23.91	13.47	2.00	0.00	1.00	0.00
23.99	13.37	2.00	0.00	1.00	0.00	24.05	12.99	2.00	0.00	1.00	0.00
24.10	12.54	2.00	0.00	1.00	0.00	24.17	11.54	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
24.24	10.99	2.00	0.00	1.00	0.00	24.30	10.53	2.00	0.00	1.00	0.00
24.36	10.26	2.00	0.00	1.00	0.00	24.44	9.89	2.00	0.00	1.00	0.00
24.51	9.34	2.00	0.00	1.00	0.00	24.56	8.97	2.00	0.00	1.00	0.00
24.62	8.79	2.00	0.00	1.00	0.00	24.69	8.88	2.00	0.00	1.00	0.00
24.74	9.05	2.00	0.00	1.00	0.00	24.82	9.48	2.00	0.00	1.00	0.00
24.87	9.74	2.00	0.00	1.00	0.00	24.95	9.91	2.00	0.00	1.00	0.00
25.01	9.99	2.00	0.00	1.00	0.00	25.08	10.24	2.00	0.00	1.00	0.00
25.14	10.76	2.00	0.00	1.00	0.00	25.20	10.85	2.00	0.00	1.00	0.00
25.27	10.48	2.00	0.00	1.00	0.00	25.32	10.03	2.00	0.00	1.00	0.00
25.40	10.29	2.00	0.00	1.00	0.00	25.45	10.98	2.00	0.00	1.00	0.00
25.53	12.82	2.00	0.00	1.00	0.00	25.58	14.91	2.00	0.00	1.00	0.00
25.60	12.28	2.00	0.00	1.00	0.00	25.67	85.24	2.00	0.00	1.00	0.00
25.74	90.68	2.00	0.00	1.00	0.00	25.82	99.34	2.00	0.00	1.00	0.00
25.87	104.02	2.00	0.00	1.00	0.00	25.94	104.57	2.00	0.00	1.00	0.00
26.01	94.24	2.00	0.00	1.00	0.00	26.05	94.80	2.00	0.00	1.00	0.00
26.12	96.32	0.20	3.34	1.00	0.03	26.18	97.95	0.21	3.28	1.00	0.02
26.28	103.31	0.22	3.11	1.00	0.03	26.31	105.45	0.22	3.04	1.00	0.01
26.40	109.29	0.23	2.93	1.00	0.03	26.48	109.74	0.24	2.92	1.00	0.03
26.53	108.64	0.23	2.95	1.00	0.02	26.59	107.68	0.23	2.98	1.00	0.02
26.66	106.63	0.23	3.01	1.00	0.03	26.78	104.54	0.22	3.07	1.00	0.04
26.83	105.30	0.22	3.05	1.00	0.02	26.90	106.02	0.23	3.03	1.00	0.03
26.98	104.20	2.00	0.00	1.00	0.00	27.03	105.63	2.00	0.00	1.00	0.00
27.10	106.68	2.00	0.00	1.00	0.00	27.15	106.19	2.00	0.00	1.00	0.00
27.22	104.47	2.00	0.00	1.00	0.00	27.28	102.22	2.00	0.00	1.00	0.00
27.33	97.79	2.00	0.00	1.00	0.00	27.42	92.98	2.00	0.00	1.00	0.00
27.46	27.82	2.00	0.00	1.00	0.00	27.55	22.19	2.00	0.00	1.00	0.00
27.60	18.27	2.00	0.00	1.00	0.00	27.67	15.36	2.00	0.00	1.00	0.00
27.73	13.05	2.00	0.00	1.00	0.00	27.85	10.22	2.00	0.00	1.00	0.00
27.91	9.37	2.00	0.00	1.00	0.00	27.99	8.94	2.00	0.00	1.00	0.00
28.04	8.75	2.00	0.00	1.00	0.00	28.10	8.75	2.00	0.00	1.00	0.00
28.17	8.58	2.00	0.00	1.00	0.00	28.24	8.06	2.00	0.00	1.00	0.00
28.30	7.80	2.00	0.00	1.00	0.00	28.37	7.63	2.00	0.00	1.00	0.00
28.43	7.62	2.00	0.00	1.00	0.00	28.45	7.66	2.00	0.00	1.00	0.00
28.50	7.69	2.00	0.00	1.00	0.00	28.55	7.94	2.00	0.00	1.00	0.00
28.63	8.02	2.00	0.00	1.00	0.00	28.68	8.27	2.00	0.00	1.00	0.00
28.78	8.76	2.00	0.00	1.00	0.00	28.84	8.84	2.00	0.00	1.00	0.00
28.89	9.00	2.00	0.00	1.00	0.00	28.94	9.25	2.00	0.00	1.00	0.00
29.03	9.49	2.00	0.00	1.00	0.00	29.10	9.39	2.00	0.00	1.00	0.00
29.14	9.31	2.00	0.00	1.00	0.00	29.20	9.13	2.00	0.00	1.00	0.00
29.30	8.95	2.00	0.00	1.00	0.00	29.40	8.69	2.00	0.00	1.00	0.00
29.46	8.52	2.00	0.00	1.00	0.00	29.52	8.76	2.00	0.00	1.00	0.00
29.56	8.76	2.00	0.00	1.00	0.00	29.61	8.92	2.00	0.00	1.00	0.00
29.67	9.32	2.00	0.00	1.00	0.00	29.73	9.98	2.00	0.00	1.00	0.00
29.83	10.80	2.00	0.00	1.00	0.00	29.88	11.54	2.00	0.00	1.00	0.00
30.01	12.51	2.00	0.00	1.00	0.00	30.05	12.75	2.00	0.00	1.00	0.00
30.09	12.99	2.00	0.00	1.00	0.00	30.14	13.06	2.00	0.00	1.00	0.00
30.21	12.64	2.00	0.00	1.00	0.00	30.27	12.62	2.00	0.00	1.00	0.00
30.36	12.61	2.00	0.00	1.00	0.00	30.42	12.60	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
30.47	12.83	2.00	0.00	1.00	0.00	30.53	13.16	2.00	0.00	1.00	0.00
30.58	13.15	2.00	0.00	1.00	0.00	30.67	12.64	2.00	0.00	1.00	0.00
30.74	12.13	2.00	0.00	1.00	0.00	30.79	11.95	2.00	0.00	1.00	0.00
30.85	11.70	2.00	0.00	1.00	0.00	30.91	11.28	2.00	0.00	1.00	0.00
30.98	10.62	2.00	0.00	1.00	0.00	31.10	9.71	2.00	0.00	1.00	0.00
31.23	8.96	2.00	0.00	1.00	0.00	31.28	8.63	2.00	0.00	1.00	0.00
31.34	8.38	2.00	0.00	1.00	0.00	31.37	8.37	2.00	0.00	1.00	0.00
31.37	8.37	2.00	0.00	1.00	0.00	31.46	8.36	2.00	0.00	1.00	0.00
31.51	8.12	2.00	0.00	1.00	0.00	31.60	7.86	2.00	0.00	1.00	0.00
31.65	8.03	2.00	0.00	1.00	0.00	31.74	8.02	2.00	0.00	1.00	0.00
31.82	8.01	2.00	0.00	1.00	0.00	31.86	8.01	2.00	0.00	1.00	0.00
31.91	7.84	2.00	0.00	1.00	0.00	31.99	7.83	2.00	0.00	1.00	0.00
32.04	8.07	2.00	0.00	1.00	0.00	32.16	7.81	2.00	0.00	1.00	0.00
32.18	7.57	2.00	0.00	1.00	0.00	32.23	7.81	2.00	0.00	1.00	0.00
32.31	7.80	2.00	0.00	1.00	0.00	32.35	7.72	2.00	0.00	1.00	0.00
32.44	7.55	2.00	0.00	1.00	0.00	32.53	7.54	2.00	0.00	1.00	0.00
32.57	7.62	2.00	0.00	1.00	0.00	32.62	7.46	2.00	0.00	1.00	0.00
32.69	7.69	2.00	0.00	1.00	0.00	32.75	8.00	2.00	0.00	1.00	0.00
32.83	8.71	2.00	0.00	1.00	0.00	32.92	9.82	2.00	0.00	1.00	0.00
32.97	10.29	2.00	0.00	1.00	0.00	33.01	10.53	2.00	0.00	1.00	0.00
33.10	10.84	2.00	0.00	1.00	0.00	33.14	11.07	2.00	0.00	1.00	0.00
33.23	10.26	2.00	0.00	1.00	0.00	33.28	9.78	2.00	0.00	1.00	0.00
33.34	9.29	2.00	0.00	1.00	0.00	33.43	9.21	2.00	0.00	1.00	0.00
33.50	9.20	2.00	0.00	1.00	0.00	33.54	9.51	2.00	0.00	1.00	0.00
33.64	10.29	2.00	0.00	1.00	0.00	33.70	10.28	2.00	0.00	1.00	0.00
33.76	10.43	2.00	0.00	1.00	0.00	33.80	10.59	2.00	0.00	1.00	0.00
33.86	10.90	2.00	0.00	1.00	0.00	33.98	10.88	2.00	0.00	1.00	0.00
34.04	9.85	2.00	0.00	1.00	0.00	34.08	11.66	2.00	0.00	1.00	0.00
34.17	10.14	2.00	0.00	1.00	0.00	34.21	8.88	2.00	0.00	1.00	0.00
34.26	8.88	2.00	0.00	1.00	0.00	34.39	8.86	2.00	0.00	1.00	0.00
34.43	8.86	2.00	0.00	1.00	0.00	34.48	9.01	2.00	0.00	1.00	0.00
34.53	8.85	2.00	0.00	1.00	0.00	34.58	8.69	2.00	0.00	1.00	0.00
34.65	8.83	2.00	0.00	1.00	0.00	34.74	9.13	2.00	0.00	1.00	0.00
34.78	9.36	2.00	0.00	1.00	0.00	34.87	9.90	2.00	0.00	1.00	0.00
34.92	9.90	2.00	0.00	1.00	0.00	35.00	10.59	2.00	0.00	1.00	0.00
35.05	11.13	2.00	0.00	1.00	0.00	35.12	12.14	2.00	0.00	1.00	0.00
35.18	12.98	2.00	0.00	1.00	0.00	35.27	14.61	2.00	0.00	1.00	0.00
35.31	15.46	2.00	0.00	1.00	0.00	35.40	15.99	2.00	0.00	1.00	0.00
35.44	16.05	2.00	0.00	1.00	0.00	35.58	17.19	2.00	0.00	1.00	0.00
35.62	18.04	2.00	0.00	1.00	0.00	35.72	19.73	2.00	0.00	1.00	0.00
35.76	20.58	2.00	0.00	1.00	0.00	35.81	21.27	2.00	0.00	1.00	0.00
35.84	22.34	2.00	0.00	1.00	0.00	35.90	23.26	2.00	0.00	1.00	0.00
35.98	24.95	2.00	0.00	1.00	0.00	36.04	25.39	2.00	0.00	1.00	0.00
36.09	25.61	2.00	0.00	1.00	0.00	36.24	25.64	2.00	0.00	1.00	0.00
36.28	26.01	2.00	0.00	1.00	0.00	36.33	27.78	2.00	0.00	1.00	0.00
36.39	31.41	2.00	0.00	1.00	0.00	36.46	37.05	2.00	0.00	1.00	0.00
36.51	43.11	2.00	0.00	1.00	0.00	36.57	46.36	2.00	0.00	1.00	0.00
36.64	47.34	2.00	0.00	1.00	0.00	36.68	47.31	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
36.76	48.29	2.00	0.00	1.00	0.00	36.81	52.80	2.00	0.00	1.00	0.00
36.99	138.91	2.00	0.00	1.00	0.00	37.07	148.14	2.00	0.00	1.00	0.00
37.13	145.32	2.00	0.00	1.00	0.00	37.18	144.61	2.00	0.00	1.00	0.00
37.21	144.50	0.42	2.16	1.00	0.01	37.32	151.33	0.50	2.05	1.00	0.03
37.39	157.60	0.59	1.87	1.00	0.02	37.44	161.86	0.68	1.62	1.00	0.01
37.48	165.79	0.77	1.31	1.00	0.01	37.57	172.11	0.96	0.83	1.00	0.01
37.61	175.56	1.10	0.62	1.00	0.00	37.67	179.85	1.32	0.39	1.00	0.00
37.75	182.99	1.52	0.24	1.00	0.00	37.81	183.31	1.54	0.23	1.00	0.00
37.88	182.57	1.49	0.26	1.00	0.00	37.94	180.48	1.36	0.36	1.00	0.00
38.02	178.11	1.23	0.48	1.00	0.00	38.07	176.50	1.15	0.57	1.00	0.00
38.14	175.30	1.09	0.63	1.00	0.01	38.23	175.29	1.09	0.64	1.00	0.01
38.28	175.90	1.12	0.60	1.00	0.00	38.34	178.49	1.25	0.46	1.00	0.00
38.39	185.18	1.68	0.15	1.00	0.00	38.45	193.16	2.00	0.00	1.00	0.00
38.52	200.34	2.00	0.00	1.00	0.00	38.59	206.16	2.00	0.00	1.00	0.00
38.67	209.39	2.00	0.00	1.00	0.00	38.72	209.46	2.00	0.00	1.00	0.00
38.81	210.19	2.00	0.00	1.00	0.00	38.85	210.59	2.00	0.00	1.00	0.00
38.97	215.89	2.00	0.00	1.00	0.00	39.03	219.04	2.00	0.00	1.00	0.00
39.11	222.46	2.00	0.00	1.00	0.00	39.16	224.84	2.00	0.00	1.00	0.00
39.23	226.74	2.00	0.00	1.00	0.00	39.29	227.94	2.00	0.00	1.00	0.00
39.36	228.87	2.00	0.00	1.00	0.00	39.42	229.16	2.00	0.00	1.00	0.00
39.47	228.82	2.00	0.00	1.00	0.00	39.55	226.80	2.00	0.00	1.00	0.00
39.60	223.70	2.00	0.00	1.00	0.00	39.64	202.56	2.00	0.00	1.00	0.00
39.71	207.78	2.00	0.00	1.00	0.00	39.81	203.83	2.00	0.00	1.00	0.00
39.86	200.69	2.00	0.00	1.00	0.00	39.90	199.22	2.00	0.00	1.00	0.00
39.99	193.97	2.00	0.00	1.00	0.00	40.03	192.65	2.00	0.00	1.00	0.00
40.12	189.03	2.00	0.00	1.00	0.00	40.16	186.93	1.83	0.07	1.00	0.00
40.25	182.20	1.47	0.28	1.00	0.00	40.29	180.93	1.39	0.34	1.00	0.00
40.39	177.01	1.17	0.53	1.00	0.01	40.45	176.99	1.17	0.54	1.00	0.00
40.52	177.36	1.19	0.52	1.00	0.00	40.56	178.24	1.24	0.47	1.00	0.00
40.66	180.94	1.39	0.34	1.00	0.00	40.70	182.00	1.46	0.29	1.00	0.00
40.78	184.50	1.63	0.17	1.00	0.00	40.83	186.26	1.77	0.10	1.00	0.00
40.89	188.16	1.93	0.03	1.00	0.00	40.96	189.17	2.00	0.00	1.00	0.00
41.05	189.02	2.00	0.00	1.00	0.00	41.09	189.02	2.00	0.00	1.00	0.00
41.16	189.38	2.00	0.00	1.00	0.00	41.22	189.28	2.00	0.00	1.00	0.00
41.29	190.28	2.00	0.00	1.00	0.00	41.34	191.49	2.00	0.00	1.00	0.00
41.44	193.26	2.00	0.00	1.00	0.00	41.49	193.82	2.00	0.00	1.00	0.00
41.58	193.94	2.00	0.00	1.00	0.00	41.63	194.02	2.00	0.00	1.00	0.00
41.69	193.84	2.00	0.00	1.00	0.00	41.74	193.91	2.00	0.00	1.00	0.00
41.91	187.75	1.90	0.04	1.00	0.00	41.96	183.09	1.53	0.23	1.00	0.00
42.02	177.26	1.19	0.52	1.00	0.00	42.07	172.86	1.00	0.77	1.00	0.01
42.13	169.20	0.87	1.02	1.00	0.01	42.19	167.28	0.82	1.17	1.00	0.01
42.25	166.95	0.81	1.19	1.00	0.01	42.33	167.78	0.83	1.13	1.00	0.01
42.43	171.52	0.95	0.86	1.00	0.01	42.47	170.62	0.92	0.92	1.00	0.00
42.56	169.79	0.89	0.97	1.00	0.01	42.60	169.58	0.89	0.99	1.00	0.00
42.66	167.75	0.83	1.13	1.00	0.01	42.73	164.39	0.74	1.42	1.00	0.01
42.81	162.85	0.71	1.57	1.00	0.01	42.86	161.50	0.68	1.64	1.00	0.01
42.95	162.47	0.70	1.59	1.00	0.02	42.99	166.20	0.79	1.25	1.00	0.01
43.08	176.38	1.15	0.56	1.00	0.01	43.17	185.31	1.70	0.14	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
43.22	188.75	1.99	0.00	1.00	0.00	43.26	191.41	2.00	0.00	1.00	0.00
43.34	183.52	1.56	0.21	1.00	0.00	43.39	183.72	1.58	0.20	1.00	0.00
43.48	182.59	1.50	0.26	1.00	0.00	43.51	183.80	1.58	0.20	1.00	0.00
43.59	184.53	1.64	0.17	1.00	0.00	43.65	186.58	1.80	0.08	1.00	0.00
43.72	190.64	2.00	0.00	1.00	0.00	43.79	192.86	2.00	0.00	1.00	0.00
43.88	193.56	2.00	0.00	1.00	0.00	43.91	192.64	2.00	0.00	1.00	0.00
44.00	189.42	2.00	0.00	1.00	0.00	44.04	186.30	1.78	0.09	1.00	0.00
44.14	178.42	1.25	0.45	1.00	0.01	44.18	174.96	1.09	0.64	1.00	0.00
44.23	171.17	0.94	0.87	1.00	0.01	44.32	167.06	0.81	1.17	1.00	0.01
44.36	165.94	0.78	1.27	1.00	0.01	44.45	165.80	0.78	1.28	1.00	0.01
44.52	161.61	0.68	1.63	1.00	0.01	44.58	165.46	0.77	1.31	1.00	0.01
44.63	167.51	0.83	1.14	1.00	0.01	44.70	167.40	0.82	1.15	1.00	0.01
44.76	166.84	0.81	1.19	1.00	0.01	44.85	155.75	0.57	1.99	1.00	0.02
44.89	165.88	0.78	1.27	1.00	0.00	44.98	161.82	0.69	1.62	1.00	0.02
45.03	167.44	0.83	1.14	1.00	0.01	45.11	177.73	1.22	0.49	1.00	0.00
45.15	181.93	1.46	0.28	1.00	0.00	45.26	194.65	2.00	0.00	1.00	0.00
45.31	198.06	2.00	0.00	1.00	0.00	45.35	199.75	2.00	0.00	1.00	0.00
45.41	199.81	2.00	0.00	1.00	0.00	45.47	197.14	2.00	0.00	1.00	0.00
45.55	193.21	2.00	0.00	1.00	0.00	45.64	188.68	1.99	0.00	1.00	0.00
45.68	187.02	1.85	0.06	1.00	0.00	45.74	184.25	1.62	0.18	1.00	0.00
45.83	180.04	1.35	0.37	1.00	0.00	45.87	177.14	1.19	0.52	1.00	0.00
45.95	172.31	0.99	0.79	1.00	0.01	46.08	158.96	0.63	1.79	1.00	0.03
46.13	156.38	0.59	1.95	1.00	0.01	46.18	153.87	2.00	0.00	1.00	0.00
46.22	154.76	2.00	0.00	1.00	0.00	46.27	155.23	2.00	0.00	1.00	0.00
46.34	154.98	2.00	0.00	1.00	0.00	46.43	150.76	2.00	0.00	1.00	0.00
46.52	140.05	2.00	0.00	1.00	0.00	46.57	124.94	2.00	0.00	1.00	0.00
46.64	108.85	2.00	0.00	1.00	0.00	46.70	34.41	2.00	0.00	1.00	0.00
46.77	27.98	2.00	0.00	1.00	0.00	46.83	26.86	2.00	0.00	1.00	0.00
46.90	28.09	2.00	0.00	1.00	0.00	46.94	25.66	2.00	0.00	1.00	0.00
47.01	30.90	2.00	0.00	1.00	0.00	47.05	31.66	2.00	0.00	1.00	0.00
47.14	31.70	2.00	0.00	1.00	0.00	47.19	28.91	2.00	0.00	1.00	0.00
47.27	26.81	2.00	0.00	1.00	0.00	47.33	28.97	2.00	0.00	1.00	0.00
47.41	28.29	2.00	0.00	1.00	0.00	47.44	29.04	2.00	0.00	1.00	0.00
47.54	30.53	2.00	0.00	1.00	0.00	47.58	30.80	2.00	0.00	1.00	0.00
47.68	31.61	2.00	0.00	1.00	0.00	47.74	33.18	2.00	0.00	1.00	0.00
47.77	34.84	2.00	0.00	1.00	0.00	47.84	38.23	2.00	0.00	1.00	0.00
47.91	40.66	2.00	0.00	1.00	0.00	47.98	39.63	2.00	0.00	1.00	0.00
48.05	39.43	2.00	0.00	1.00	0.00	48.11	39.41	2.00	0.00	1.00	0.00
48.19	39.21	2.00	0.00	1.00	0.00	48.24	44.41	2.00	0.00	1.00	0.00
48.30	55.76	2.00	0.00	1.00	0.00	48.38	132.59	0.34	2.38	1.00	0.02
48.46	136.00	0.37	2.32	1.00	0.02	48.52	139.45	0.39	2.25	1.00	0.02
48.60	142.96	0.42	2.19	1.00	0.02	48.64	139.33	0.39	2.26	1.00	0.01
48.71	126.44	0.31	2.51	1.00	0.02	48.77	132.19	0.34	2.39	1.00	0.02
48.90	145.04	0.44	2.16	1.00	0.03	48.95	151.22	0.52	2.06	1.00	0.01
48.96	146.02	0.45	2.14	1.00	0.00	49.02	168.60	0.87	1.03	1.00	0.01
49.08	186.58	1.82	0.08	1.00	0.00	49.16	193.66	2.00	0.00	1.00	0.00
49.22	193.20	2.00	0.00	1.00	0.00	49.33	187.00	1.86	0.06	1.00	0.00
49.36	182.82	1.53	0.23	1.00	0.00	49.46	170.44	0.93	0.90	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
49.51	164.49	0.76	1.36	1.00	0.01	49.55	160.49	0.67	1.70	1.00	0.01
49.62	149.94	0.50	2.08	1.00	0.02	49.69	143.36	0.43	2.18	1.00	0.02
49.81	143.82	0.43	2.18	1.00	0.03	49.86	146.27	0.46	2.14	1.00	0.01
49.90	149.89	0.50	2.08	1.00	0.01	49.94	151.07	0.52	2.06	1.00	0.01
50.01	93.37	2.00	0.00	1.00	0.00	50.08	87.77	2.00	0.00	1.00	0.00
50.17	78.12	2.00	0.00	1.00	0.00	50.21	72.28	2.00	0.00	1.00	0.00
50.30	63.35	2.00	0.00	1.00	0.00	50.35	56.57	2.00	0.00	1.00	0.00

Total estimated settlement: 2.80

Abbreviations

$Q_{tn,cs}$:	Equivalent dean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

:: Post-earthquake settlement due to soil liquefaction ::

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
5.07	117.97	0.45	2.70	1.00	0.03	5.15	115.74	0.44	2.76	1.00	0.02
5.18	114.95	0.43	2.78	1.00	0.01	5.29	114.43	0.42	2.79	1.00	0.04
5.34	114.80	0.42	2.78	1.00	0.02	5.42	116.08	0.43	2.75	1.00	0.03
5.46	116.83	0.43	2.73	1.00	0.01	5.54	117.51	0.43	2.72	1.00	0.03
5.58	116.89	2.00	0.00	1.00	0.00	5.66	116.39	2.00	0.00	1.00	0.00
5.73	115.80	2.00	0.00	1.00	0.00	5.78	113.79	2.00	0.00	1.00	0.00
5.87	104.57	2.00	0.00	1.00	0.00	5.91	100.24	2.00	0.00	1.00	0.00
6.00	95.30	2.00	0.00	1.00	0.00	6.04	92.83	2.00	0.00	1.00	0.00
6.13	28.92	2.00	0.00	1.00	0.00	6.21	30.86	2.00	0.00	1.00	0.00
6.28	93.56	2.00	0.00	1.00	0.00	6.31	94.61	2.00	0.00	1.00	0.00
6.39	96.75	2.00	0.00	1.00	0.00	6.44	97.74	2.00	0.00	1.00	0.00
6.57	97.94	2.00	0.00	1.00	0.00	6.62	97.43	2.00	0.00	1.00	0.00
6.65	97.99	0.31	3.28	1.00	0.01	6.70	98.25	0.31	3.27	1.00	0.02
6.79	96.98	0.31	3.31	1.00	0.04	6.83	96.55	0.30	3.33	1.00	0.01
6.92	95.24	0.30	3.38	1.00	0.04	6.96	94.65	0.29	3.40	1.00	0.02
7.05	94.78	0.29	3.39	1.00	0.04	7.12	94.40	0.29	3.41	1.00	0.03
7.19	92.57	0.28	3.47	1.00	0.03	7.29	90.56	2.00	0.00	1.00	0.00
7.41	91.53	2.00	0.00	1.00	0.00	7.47	89.63	2.00	0.00	1.00	0.00
7.49	21.96	2.00	0.00	1.00	0.00	7.58	87.20	2.00	0.00	1.00	0.00
7.66	84.89	2.00	0.00	1.00	0.00	7.71	25.45	2.00	0.00	1.00	0.00
7.75	23.91	2.00	0.00	1.00	0.00	7.83	22.11	2.00	0.00	1.00	0.00
7.88	23.49	2.00	0.00	1.00	0.00	7.97	95.70	2.00	0.00	1.00	0.00
8.02	103.58	2.00	0.00	1.00	0.00	8.11	112.15	2.00	0.00	1.00	0.00
8.16	114.44	0.35	2.79	1.00	0.02	8.26	115.26	0.35	2.77	1.00	0.03
8.30	115.25	0.35	2.77	1.00	0.01	8.36	115.44	0.35	2.77	1.00	0.02
8.41	115.76	0.35	2.76	1.00	0.02	8.50	114.79	2.00	0.00	1.00	0.00
8.55	113.18	2.00	0.00	1.00	0.00	8.65	106.02	2.00	0.00	1.00	0.00
8.69	100.80	2.00	0.00	1.00	0.00	8.75	94.04	2.00	0.00	1.00	0.00
8.81	87.73	2.00	0.00	1.00	0.00	8.90	19.49	2.00	0.00	1.00	0.00
8.94	16.07	2.00	0.00	1.00	0.00	9.03	10.28	2.00	0.00	1.00	0.00
9.09	8.48	2.00	0.00	1.00	0.00	9.15	9.05	2.00	0.00	1.00	0.00
9.19	8.48	2.00	0.00	1.00	0.00	9.25	8.90	2.00	0.00	1.00	0.00
9.34	9.96	2.00	0.00	1.00	0.00	9.41	11.41	2.00	0.00	1.00	0.00
9.51	12.56	2.00	0.00	1.00	0.00	9.57	14.11	2.00	0.00	1.00	0.00
9.70	17.17	2.00	0.00	1.00	0.00	9.74	18.80	2.00	0.00	1.00	0.00
9.81	19.78	2.00	0.00	1.00	0.00	9.87	20.26	2.00	0.00	1.00	0.00
9.93	20.22	2.00	0.00	1.00	0.00	9.99	20.19	2.00	0.00	1.00	0.00
10.05	20.16	2.00	0.00	1.00	0.00	10.13	20.11	2.00	0.00	1.00	0.00
10.18	20.09	2.00	0.00	1.00	0.00	10.31	20.27	2.00	0.00	1.00	0.00
10.36	20.38	2.00	0.00	1.00	0.00	10.42	77.28	0.21	4.14	1.00	0.03
10.49	21.09	2.00	0.00	1.00	0.00	10.55	22.27	2.00	0.00	1.00	0.00
10.62	82.04	0.22	3.91	1.00	0.03	10.69	23.39	2.00	0.00	1.00	0.00
10.70	88.44	2.00	0.00	1.00	0.00	10.76	91.99	2.00	0.00	1.00	0.00
10.86	95.20	2.00	0.00	1.00	0.00	10.91	96.31	2.00	0.00	1.00	0.00
10.96	97.25	2.00	0.00	1.00	0.00	11.03	98.01	2.00	0.00	1.00	0.00
11.12	99.98	2.00	0.00	1.00	0.00	11.17	100.08	2.00	0.00	1.00	0.00
11.25	101.48	0.26	3.17	1.00	0.03	11.30	102.88	0.27	3.12	1.00	0.02
11.42	104.71	0.27	3.06	1.00	0.05	11.47	104.27	0.27	3.08	1.00	0.02

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
11.53	104.92	0.27	3.06	1.00	0.02	11.58	106.48	0.28	3.01	1.00	0.02
11.64	107.43	0.28	2.98	1.00	0.02	11.69	109.32	0.29	2.93	1.00	0.02
11.75	111.25	0.29	2.88	1.00	0.02	11.86	114.97	0.31	2.78	1.00	0.04
11.91	116.46	0.31	2.74	1.00	0.02	11.95	117.72	0.32	2.71	1.00	0.01
12.01	119.40	0.33	2.67	1.00	0.02	12.13	121.46	0.33	2.62	1.00	0.04
12.17	122.54	0.34	2.60	1.00	0.01	12.24	123.31	0.34	2.58	1.00	0.02
12.30	123.89	0.35	2.57	1.00	0.02	12.35	123.95	0.35	2.56	1.00	0.02
12.50	122.58	0.34	2.59	1.00	0.05	12.57	122.45	2.00	0.00	1.00	0.00
12.61	121.70	2.00	0.00	1.00	0.00	12.66	120.23	2.00	0.00	1.00	0.00
12.70	117.27	2.00	0.00	1.00	0.00	12.76	111.01	2.00	0.00	1.00	0.00
12.81	103.19	2.00	0.00	1.00	0.00	12.88	95.46	2.00	0.00	1.00	0.00
12.97	25.33	2.00	0.00	1.00	0.00	13.03	21.86	2.00	0.00	1.00	0.00
13.07	18.95	2.00	0.00	1.00	0.00	13.14	17.31	2.00	0.00	1.00	0.00
13.23	15.55	2.00	0.00	1.00	0.00	13.29	13.99	2.00	0.00	1.00	0.00
13.34	12.80	2.00	0.00	1.00	0.00	13.41	12.66	2.00	0.00	1.00	0.00
13.46	12.65	2.00	0.00	1.00	0.00	13.52	12.40	2.00	0.00	1.00	0.00
13.59	10.60	2.00	0.00	1.00	0.00	13.65	11.30	2.00	0.00	1.00	0.00
13.73	10.92	2.00	0.00	1.00	0.00	13.81	10.42	2.00	0.00	1.00	0.00
13.88	9.94	2.00	0.00	1.00	0.00	13.92	9.81	2.00	0.00	1.00	0.00
14.00	9.80	2.00	0.00	1.00	0.00	14.08	9.78	2.00	0.00	1.00	0.00
14.12	9.78	2.00	0.00	1.00	0.00	14.21	10.71	2.00	0.00	1.00	0.00
14.26	11.06	2.00	0.00	1.00	0.00	14.35	10.92	2.00	0.00	1.00	0.00
14.39	10.69	2.00	0.00	1.00	0.00	14.47	9.85	2.00	0.00	1.00	0.00
14.52	9.24	2.00	0.00	1.00	0.00	14.61	9.23	2.00	0.00	1.00	0.00
14.66	9.22	2.00	0.00	1.00	0.00	14.74	9.21	2.00	0.00	1.00	0.00
14.79	9.20	2.00	0.00	1.00	0.00	14.87	8.72	2.00	0.00	1.00	0.00
14.91	8.71	2.00	0.00	1.00	0.00	14.97	9.05	2.00	0.00	1.00	0.00
15.06	8.91	2.00	0.00	1.00	0.00	15.10	8.78	2.00	0.00	1.00	0.00
15.20	8.76	2.00	0.00	1.00	0.00	15.23	9.11	2.00	0.00	1.00	0.00
15.32	8.74	2.00	0.00	1.00	0.00	15.41	8.73	2.00	0.00	1.00	0.00
15.46	8.67	2.00	0.00	1.00	0.00	15.54	8.60	2.00	0.00	1.00	0.00
15.58	8.59	2.00	0.00	1.00	0.00	15.64	8.58	2.00	0.00	1.00	0.00
15.70	8.68	2.00	0.00	1.00	0.00	15.75	8.67	2.00	0.00	1.00	0.00
15.84	8.65	2.00	0.00	1.00	0.00	15.90	8.54	2.00	0.00	1.00	0.00
15.96	8.53	2.00	0.00	1.00	0.00	16.06	8.05	2.00	0.00	1.00	0.00
16.11	7.13	2.00	0.00	1.00	0.00	16.15	7.81	2.00	0.00	1.00	0.00
16.22	7.12	2.00	0.00	1.00	0.00	16.27	7.85	2.00	0.00	1.00	0.00
16.37	7.44	2.00	0.00	1.00	0.00	16.42	7.88	2.00	0.00	1.00	0.00
16.50	8.21	2.00	0.00	1.00	0.00	16.54	8.54	2.00	0.00	1.00	0.00
16.62	9.21	2.00	0.00	1.00	0.00	16.68	9.65	2.00	0.00	1.00	0.00
16.77	10.19	2.00	0.00	1.00	0.00	16.83	11.97	2.00	0.00	1.00	0.00
16.87	12.51	2.00	0.00	1.00	0.00	16.95	14.04	2.00	0.00	1.00	0.00
17.03	16.31	2.00	0.00	1.00	0.00	17.07	17.38	2.00	0.00	1.00	0.00
17.16	21.25	2.00	0.00	1.00	0.00	17.21	24.13	2.00	0.00	1.00	0.00
17.30	89.60	2.00	0.00	1.00	0.00	17.33	92.80	2.00	0.00	1.00	0.00
17.43	98.61	2.00	0.00	1.00	0.00	17.47	100.96	2.00	0.00	1.00	0.00
17.55	105.65	2.00	0.00	1.00	0.00	17.62	108.97	2.00	0.00	1.00	0.00
17.66	110.22	2.00	0.00	1.00	0.00	17.75	112.86	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
17.79	114.76	2.00	0.00	1.00	0.00	17.87	116.96	0.28	2.73	1.00	0.03
17.95	120.28	0.29	2.65	1.00	0.03	18.00	121.31	0.30	2.62	1.00	0.01
18.09	123.15	0.30	2.58	1.00	0.03	18.13	122.96	0.30	2.59	1.00	0.01
18.18	122.35	0.30	2.60	1.00	0.01	18.26	118.42	0.28	2.69	1.00	0.03
18.31	115.62	0.27	2.76	1.00	0.02	18.40	111.76	0.26	2.86	1.00	0.03
18.44	109.52	0.25	2.92	1.00	0.01	18.53	108.31	0.24	2.96	1.00	0.03
18.57	108.34	0.24	2.96	1.00	0.02	18.66	109.16	0.25	2.93	1.00	0.03
18.70	110.33	0.25	2.90	1.00	0.02	18.80	114.38	0.26	2.79	1.00	0.03
18.84	116.48	0.27	2.74	1.00	0.01	18.90	117.79	0.28	2.71	1.00	0.02
19.01	119.93	0.29	2.66	1.00	0.04	19.06	121.17	0.29	2.63	1.00	0.01
19.11	123.30	0.30	2.58	1.00	0.01	19.20	100.05	0.22	3.21	1.00	0.04
19.31	103.23	0.23	3.11	1.00	0.04	19.37	105.62	0.23	3.04	1.00	0.02
19.41	108.06	0.24	2.97	1.00	0.02	19.46	112.06	0.25	2.86	1.00	0.02
19.51	115.41	0.27	2.77	1.00	0.01	19.55	119.76	0.28	2.66	1.00	0.01
19.65	125.23	0.31	2.54	1.00	0.03	19.69	127.49	0.32	2.49	1.00	0.01
19.78	132.21	0.35	2.39	1.00	0.03	19.82	133.27	0.36	2.37	1.00	0.01
19.91	135.61	0.37	2.32	1.00	0.03	19.96	137.04	0.38	2.30	1.00	0.01
20.04	139.24	0.40	2.26	1.00	0.02	20.09	140.35	0.41	2.24	1.00	0.01
20.17	140.26	0.41	2.24	1.00	0.02	20.22	139.93	0.41	2.24	1.00	0.01
20.30	138.98	0.40	2.26	1.00	0.02	20.37	139.06	0.40	2.26	1.00	0.02
20.44	139.37	0.40	2.25	1.00	0.02	20.49	139.26	0.40	2.26	1.00	0.01
20.57	140.15	0.41	2.24	1.00	0.02	20.61	140.43	0.41	2.24	1.00	0.01
20.70	140.51	0.41	2.23	1.00	0.02	20.74	139.96	0.41	2.24	1.00	0.01
20.83	138.04	0.39	2.28	1.00	0.02	20.90	136.39	0.38	2.31	1.00	0.02
20.95	135.46	0.37	2.33	1.00	0.02	21.03	133.77	0.36	2.36	1.00	0.02
21.08	133.13	0.35	2.37	1.00	0.01	21.16	133.24	0.35	2.37	1.00	0.02
21.20	131.39	0.34	2.41	1.00	0.01	21.29	127.97	0.32	2.48	1.00	0.03
21.35	123.11	0.29	2.58	1.00	0.02	21.40	114.01	0.26	2.80	1.00	0.02
21.49	112.57	2.00	0.00	1.00	0.00	21.54	116.08	2.00	0.00	1.00	0.00
21.59	120.87	2.00	0.00	1.00	0.00	21.66	124.12	2.00	0.00	1.00	0.00
21.76	118.32	2.00	0.00	1.00	0.00	21.82	111.35	2.00	0.00	1.00	0.00
21.89	100.63	2.00	0.00	1.00	0.00	21.95	92.11	2.00	0.00	1.00	0.00
22.03	92.41	0.20	3.48	1.00	0.03	22.08	32.42	2.00	0.00	1.00	0.00
22.15	32.41	2.00	0.00	1.00	0.00	22.20	102.64	2.00	0.00	1.00	0.00
22.26	111.63	2.00	0.00	1.00	0.00	22.32	118.46	2.00	0.00	1.00	0.00
22.39	120.61	2.00	0.00	1.00	0.00	22.45	116.22	2.00	0.00	1.00	0.00
22.52	112.52	2.00	0.00	1.00	0.00	22.61	103.45	2.00	0.00	1.00	0.00
22.65	99.33	2.00	0.00	1.00	0.00	22.74	31.49	2.00	0.00	1.00	0.00
22.79	28.82	2.00	0.00	1.00	0.00	22.88	25.37	2.00	0.00	1.00	0.00
22.92	24.11	2.00	0.00	1.00	0.00	23.02	21.98	2.00	0.00	1.00	0.00
23.08	20.92	2.00	0.00	1.00	0.00	23.13	21.94	2.00	0.00	1.00	0.00
23.19	21.54	2.00	0.00	1.00	0.00	23.24	21.90	2.00	0.00	1.00	0.00
23.31	21.30	2.00	0.00	1.00	0.00	23.36	20.80	2.00	0.00	1.00	0.00
23.46	21.52	2.00	0.00	1.00	0.00	23.58	25.42	2.00	0.00	1.00	0.00
23.63	27.83	2.00	0.00	1.00	0.00	23.71	29.47	2.00	0.00	1.00	0.00
23.77	31.47	2.00	0.00	1.00	0.00	23.85	35.51	2.00	0.00	1.00	0.00
23.90	103.74	2.00	0.00	1.00	0.00	24.02	117.38	2.00	0.00	1.00	0.00
24.10	123.32	2.00	0.00	1.00	0.00	24.15	126.86	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
24.21	126.93	2.00	0.00	1.00	0.00	24.28	121.95	2.00	0.00	1.00	0.00
24.35	120.10	2.00	0.00	1.00	0.00	24.42	86.36	2.00	0.00	1.00	0.00
24.54	90.36	0.19	3.56	1.00	0.05	24.59	93.44	0.20	3.44	1.00	0.02
24.66	98.14	0.21	3.28	1.00	0.03	24.70	100.48	0.21	3.20	1.00	0.01
24.75	103.69	0.22	3.10	1.00	0.02	24.84	109.54	0.24	2.92	1.00	0.03
24.88	111.19	0.24	2.88	1.00	0.01	24.97	114.55	0.25	2.79	1.00	0.03
25.01	116.30	0.26	2.75	1.00	0.01	25.10	115.54	0.26	2.76	1.00	0.03
25.15	115.21	0.26	2.77	1.00	0.02	25.21	114.31	0.25	2.80	1.00	0.02
25.27	113.43	2.00	0.00	1.00	0.00	25.36	115.23	2.00	0.00	1.00	0.00
25.40	115.86	2.00	0.00	1.00	0.00	25.49	115.48	2.00	0.00	1.00	0.00
25.54	111.65	2.00	0.00	1.00	0.00	25.64	96.66	2.00	0.00	1.00	0.00
25.70	29.29	2.00	0.00	1.00	0.00	25.76	23.17	2.00	0.00	1.00	0.00
25.81	19.14	2.00	0.00	1.00	0.00	25.87	16.39	2.00	0.00	1.00	0.00
25.94	14.72	2.00	0.00	1.00	0.00	25.99	13.88	2.00	0.00	1.00	0.00
26.11	11.66	2.00	0.00	1.00	0.00	26.14	11.02	2.00	0.00	1.00	0.00
26.21	10.91	2.00	0.00	1.00	0.00	26.26	10.35	2.00	0.00	1.00	0.00
26.37	8.50	2.00	0.00	1.00	0.00	26.42	8.22	2.00	0.00	1.00	0.00
26.47	8.22	2.00	0.00	1.00	0.00	26.55	8.21	2.00	0.00	1.00	0.00
26.60	8.02	2.00	0.00	1.00	0.00	26.67	7.92	2.00	0.00	1.00	0.00
26.73	7.91	2.00	0.00	1.00	0.00	26.80	7.63	2.00	0.00	1.00	0.00
26.86	7.72	2.00	0.00	1.00	0.00	26.91	7.81	2.00	0.00	1.00	0.00
26.99	7.80	2.00	0.00	1.00	0.00	27.04	8.15	2.00	0.00	1.00	0.00
27.12	8.24	2.00	0.00	1.00	0.00	27.17	8.23	2.00	0.00	1.00	0.00
27.25	8.23	2.00	0.00	1.00	0.00	27.30	8.22	2.00	0.00	1.00	0.00
27.36	8.17	2.00	0.00	1.00	0.00	27.44	8.21	2.00	0.00	1.00	0.00
27.55	8.19	2.00	0.00	1.00	0.00	27.58	8.27	2.00	0.00	1.00	0.00
27.64	8.27	2.00	0.00	1.00	0.00	27.73	8.80	2.00	0.00	1.00	0.00
27.78	9.16	2.00	0.00	1.00	0.00	27.82	9.25	2.00	0.00	1.00	0.00
27.97	9.67	2.00	0.00	1.00	0.00	28.01	9.67	2.00	0.00	1.00	0.00
28.06	9.49	2.00	0.00	1.00	0.00	28.15	8.94	2.00	0.00	1.00	0.00
28.20	8.47	2.00	0.00	1.00	0.00	28.29	8.02	2.00	0.00	1.00	0.00
28.35	8.01	2.00	0.00	1.00	0.00	28.41	8.01	2.00	0.00	1.00	0.00
28.45	8.18	2.00	0.00	1.00	0.00	28.50	8.53	2.00	0.00	1.00	0.00
28.59	9.42	2.00	0.00	1.00	0.00	28.63	9.32	2.00	0.00	1.00	0.00
28.72	9.85	2.00	0.00	1.00	0.00	28.77	10.01	2.00	0.00	1.00	0.00
28.83	10.36	2.00	0.00	1.00	0.00	28.89	10.80	2.00	0.00	1.00	0.00
29.00	12.11	2.00	0.00	1.00	0.00	29.06	12.63	2.00	0.00	1.00	0.00
29.11	12.79	2.00	0.00	1.00	0.00	29.16	12.87	2.00	0.00	1.00	0.00
29.24	12.86	2.00	0.00	1.00	0.00	29.29	12.68	2.00	0.00	1.00	0.00
29.34	12.40	2.00	0.00	1.00	0.00	29.40	12.74	2.00	0.00	1.00	0.00
29.47	13.25	2.00	0.00	1.00	0.00	29.59	17.52	2.00	0.00	1.00	0.00
29.64	22.14	2.00	0.00	1.00	0.00	29.70	83.00	2.00	0.00	1.00	0.00
29.74	85.77	2.00	0.00	1.00	0.00	29.82	87.67	0.18	3.67	1.00	0.04
29.87	88.65	0.19	3.63	1.00	0.02	29.95	88.14	0.18	3.65	1.00	0.03
30.05	86.44	2.00	0.00	1.00	0.00	30.18	84.50	2.00	0.00	1.00	0.00
30.26	22.46	2.00	0.00	1.00	0.00	30.30	18.37	2.00	0.00	1.00	0.00
30.32	14.29	2.00	0.00	1.00	0.00	30.34	14.42	2.00	0.00	1.00	0.00
30.40	14.54	2.00	0.00	1.00	0.00	30.47	13.57	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
30.52	13.21	2.00	0.00	1.00	0.00	30.60	12.60	2.00	0.00	1.00	0.00
30.66	12.07	2.00	0.00	1.00	0.00	30.73	11.97	2.00	0.00	1.00	0.00
30.82	11.17	2.00	0.00	1.00	0.00	30.87	11.00	2.00	0.00	1.00	0.00
30.92	11.08	2.00	0.00	1.00	0.00	31.04	11.06	2.00	0.00	1.00	0.00
31.09	11.31	2.00	0.00	1.00	0.00	31.17	11.47	2.00	0.00	1.00	0.00
31.22	11.46	2.00	0.00	1.00	0.00	31.29	11.62	2.00	0.00	1.00	0.00
31.35	11.79	2.00	0.00	1.00	0.00	31.40	11.86	2.00	0.00	1.00	0.00
31.48	11.59	2.00	0.00	1.00	0.00	31.53	11.58	2.00	0.00	1.00	0.00
31.58	11.57	2.00	0.00	1.00	0.00	31.74	11.55	2.00	0.00	1.00	0.00
31.80	12.14	2.00	0.00	1.00	0.00	31.86	12.64	2.00	0.00	1.00	0.00
31.92	13.05	2.00	0.00	1.00	0.00	31.98	13.30	2.00	0.00	1.00	0.00
32.04	13.20	2.00	0.00	1.00	0.00	32.10	13.36	2.00	0.00	1.00	0.00
32.16	13.10	2.00	0.00	1.00	0.00	32.23	13.34	2.00	0.00	1.00	0.00
32.29	12.64	2.00	0.00	1.00	0.00	32.36	13.31	2.00	0.00	1.00	0.00
32.42	14.74	2.00	0.00	1.00	0.00	32.49	16.41	2.00	0.00	1.00	0.00
32.62	20.83	2.00	0.00	1.00	0.00	32.68	21.74	2.00	0.00	1.00	0.00
32.74	21.47	2.00	0.00	1.00	0.00	32.81	20.94	2.00	0.00	1.00	0.00
32.87	20.17	2.00	0.00	1.00	0.00	32.93	19.23	2.00	0.00	1.00	0.00
32.98	18.12	2.00	0.00	1.00	0.00	33.05	16.94	2.00	0.00	1.00	0.00
33.12	16.33	2.00	0.00	1.00	0.00	33.19	16.65	2.00	0.00	1.00	0.00
33.25	17.23	2.00	0.00	1.00	0.00	33.30	17.72	2.00	0.00	1.00	0.00
33.38	17.52	2.00	0.00	1.00	0.00	33.43	17.64	2.00	0.00	1.00	0.00
33.50	17.58	2.00	0.00	1.00	0.00	33.55	18.56	2.00	0.00	1.00	0.00
33.61	19.37	2.00	0.00	1.00	0.00	33.68	20.43	2.00	0.00	1.00	0.00
33.75	22.07	2.00	0.00	1.00	0.00	33.81	23.37	2.00	0.00	1.00	0.00
33.89	24.17	2.00	0.00	1.00	0.00	33.94	24.81	2.00	0.00	1.00	0.00
34.07	25.26	2.00	0.00	1.00	0.00	34.12	24.83	2.00	0.00	1.00	0.00
34.18	24.81	2.00	0.00	1.00	0.00	34.29	30.35	2.00	0.00	1.00	0.00
34.38	37.54	2.00	0.00	1.00	0.00	34.43	106.29	0.22	3.02	1.00	0.02
34.55	109.03	0.23	2.94	1.00	0.04	34.61	107.30	0.23	2.99	1.00	0.02
34.69	41.54	2.00	0.00	1.00	0.00	34.75	38.64	2.00	0.00	1.00	0.00
34.82	35.99	2.00	0.00	1.00	0.00	34.88	34.50	2.00	0.00	1.00	0.00
34.95	33.56	2.00	0.00	1.00	0.00	35.07	31.63	2.00	0.00	1.00	0.00
35.14	29.65	2.00	0.00	1.00	0.00	35.20	27.02	2.00	0.00	1.00	0.00
35.26	29.67	2.00	0.00	1.00	0.00	35.33	24.94	2.00	0.00	1.00	0.00
35.39	29.70	2.00	0.00	1.00	0.00	35.46	38.83	2.00	0.00	1.00	0.00
35.53	115.38	2.00	0.00	1.00	0.00	35.57	130.09	2.00	0.00	1.00	0.00
35.64	143.73	2.00	0.00	1.00	0.00	35.70	150.06	2.00	0.00	1.00	0.00
35.77	146.33	2.00	0.00	1.00	0.00	35.83	133.11	2.00	0.00	1.00	0.00
35.89	119.21	2.00	0.00	1.00	0.00	35.97	123.01	0.28	2.59	1.00	0.02
36.01	124.40	0.29	2.55	1.00	0.01	36.14	123.48	0.28	2.57	1.00	0.04
36.19	117.24	0.26	2.72	1.00	0.01	36.23	116.87	0.26	2.73	1.00	0.01
36.30	118.25	0.26	2.70	1.00	0.02	36.36	122.44	0.28	2.60	1.00	0.02
36.45	131.08	0.32	2.41	1.00	0.03	36.50	136.91	0.36	2.30	1.00	0.01
36.62	148.93	0.47	2.09	1.00	0.03	36.67	150.54	0.49	2.07	1.00	0.01
36.72	149.70	0.48	2.08	1.00	0.01	36.80	144.07	0.42	2.17	1.00	0.02
36.84	139.00	0.37	2.26	1.00	0.01	36.91	136.99	0.36	2.30	1.00	0.02
36.97	142.24	0.40	2.20	1.00	0.02	37.02	150.55	0.49	2.07	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
37.10	160.47	0.65	1.70	1.00	0.02	37.15	168.81	0.86	1.06	1.00	0.01
37.24	178.62	1.26	0.45	1.00	0.00	37.29	184.15	1.60	0.19	1.00	0.00
37.39	202.26	2.00	0.00	1.00	0.00	37.46	212.81	2.00	0.00	1.00	0.00
37.51	222.51	2.00	0.00	1.00	0.00	37.55	229.28	2.00	0.00	1.00	0.00
37.65	236.44	2.00	0.00	1.00	0.00	37.68	238.10	2.00	0.00	1.00	0.00
37.76	238.02	2.00	0.00	1.00	0.00	37.81	237.35	2.00	0.00	1.00	0.00
37.90	234.32	2.00	0.00	1.00	0.00	37.95	233.57	2.00	0.00	1.00	0.00
38.03	232.68	2.00	0.00	1.00	0.00	38.10	228.95	2.00	0.00	1.00	0.00
38.17	221.56	2.00	0.00	1.00	0.00	38.24	212.80	2.00	0.00	1.00	0.00
38.30	201.12	2.00	0.00	1.00	0.00	38.38	187.98	1.92	0.03	1.00	0.00
38.43	174.61	1.07	0.67	1.00	0.00	38.52	161.38	0.67	1.65	1.00	0.02
38.57	143.90	2.00	0.00	1.00	0.00	38.66	138.90	2.00	0.00	1.00	0.00
38.71	126.90	2.00	0.00	1.00	0.00	38.78	131.58	2.00	0.00	1.00	0.00
38.85	124.28	2.00	0.00	1.00	0.00	38.92	113.02	2.00	0.00	1.00	0.00
39.01	103.07	2.00	0.00	1.00	0.00	39.02	94.68	2.00	0.00	1.00	0.00
39.04	97.34	0.20	3.30	1.00	0.01	39.13	96.19	0.20	3.34	1.00	0.03
39.18	32.78	2.00	0.00	1.00	0.00	39.28	26.18	2.00	0.00	1.00	0.00
39.34	24.22	2.00	0.00	1.00	0.00	39.39	23.44	2.00	0.00	1.00	0.00
39.45	23.89	2.00	0.00	1.00	0.00	39.54	29.71	2.00	0.00	1.00	0.00
39.59	33.01	2.00	0.00	1.00	0.00	39.66	35.30	2.00	0.00	1.00	0.00
39.71	36.83	2.00	0.00	1.00	0.00	39.81	36.55	2.00	0.00	1.00	0.00
39.92	40.98	2.00	0.00	1.00	0.00	39.97	112.72	2.00	0.00	1.00	0.00
40.02	125.63	2.00	0.00	1.00	0.00	40.10	139.00	2.00	0.00	1.00	0.00
40.15	153.03	2.00	0.00	1.00	0.00	40.25	168.17	2.00	0.00	1.00	0.00
40.32	166.43	2.00	0.00	1.00	0.00	40.37	165.38	2.00	0.00	1.00	0.00
40.44	169.31	0.87	1.02	1.00	0.01	40.50	172.68	0.99	0.79	1.00	0.01
40.54	176.90	1.17	0.54	1.00	0.00	40.67	192.64	2.00	0.00	1.00	0.00
40.72	198.52	2.00	0.00	1.00	0.00	40.77	201.44	2.00	0.00	1.00	0.00
40.90	200.14	2.00	0.00	1.00	0.00	40.94	197.71	2.00	0.00	1.00	0.00
41.01	191.68	2.00	0.00	1.00	0.00	41.07	186.68	1.81	0.08	1.00	0.00
41.25	194.05	2.00	0.00	1.00	0.00	41.38	191.20	2.00	0.00	1.00	0.00
41.45	188.28	1.95	0.02	1.00	0.00	41.52	190.59	2.00	0.00	1.00	0.00
41.57	193.96	2.00	0.00	1.00	0.00	41.64	197.54	2.00	0.00	1.00	0.00
41.70	200.59	2.00	0.00	1.00	0.00	41.77	198.44	2.00	0.00	1.00	0.00
41.83	193.18	2.00	0.00	1.00	0.00	41.88	177.71	1.21	0.49	1.00	0.00
41.89	162.37	0.69	1.59	1.00	0.00	41.95	171.75	0.96	0.84	1.00	0.01
42.00	167.73	2.00	0.00	1.00	0.00	42.09	159.71	2.00	0.00	1.00	0.00
42.13	156.95	2.00	0.00	1.00	0.00	42.21	162.32	2.00	0.00	1.00	0.00
42.26	167.92	2.00	0.00	1.00	0.00	42.35	170.24	2.00	0.00	1.00	0.00
42.46	157.10	2.00	0.00	1.00	0.00	42.52	145.19	2.00	0.00	1.00	0.00
42.57	134.73	2.00	0.00	1.00	0.00	42.61	123.16	2.00	0.00	1.00	0.00
42.66	114.72	2.00	0.00	1.00	0.00	42.75	42.68	2.00	0.00	1.00	0.00
42.80	40.92	2.00	0.00	1.00	0.00	42.90	34.36	2.00	0.00	1.00	0.00
43.01	36.62	2.00	0.00	1.00	0.00	43.06	111.19	2.00	0.00	1.00	0.00
43.10	126.95	2.00	0.00	1.00	0.00	43.15	141.13	2.00	0.00	1.00	0.00
43.25	156.07	2.00	0.00	1.00	0.00	43.32	158.21	2.00	0.00	1.00	0.00
43.36	158.77	2.00	0.00	1.00	0.00	43.41	158.55	2.00	0.00	1.00	0.00
43.47	159.84	2.00	0.00	1.00	0.00	43.51	160.68	0.66	1.69	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
43.68	165.85	0.78	1.28	1.00	0.03	43.72	166.89	0.81	1.19	1.00	0.01
43.78	167.75	0.83	1.12	1.00	0.01	43.81	167.95	0.84	1.10	1.00	0.00
43.89	169.28	0.88	1.00	1.00	0.01	43.94	170.60	0.92	0.91	1.00	0.01
43.98	171.46	0.95	0.85	1.00	0.00	44.04	172.78	1.00	0.77	1.00	0.01
44.11	174.15	1.06	0.69	1.00	0.01	44.20	176.41	1.15	0.56	1.00	0.01
44.25	176.71	1.17	0.54	1.00	0.00	44.31	175.68	1.12	0.60	1.00	0.00
44.38	173.80	1.04	0.71	1.00	0.01	44.43	178.04	1.24	0.47	1.00	0.00
44.51	187.89	1.92	0.03	1.00	0.00	44.56	192.71	2.00	0.00	1.00	0.00
44.64	190.47	2.00	0.00	1.00	0.00	44.69	190.40	2.00	0.00	1.00	0.00
44.77	188.76	2.00	0.00	1.00	0.00	44.86	188.59	1.98	0.01	1.00	0.00
44.90	188.12	1.94	0.02	1.00	0.00	44.95	188.04	1.93	0.03	1.00	0.00
45.03	182.90	2.00	0.00	1.00	0.00	45.12	170.03	2.00	0.00	1.00	0.00
45.17	168.20	2.00	0.00	1.00	0.00	45.23	176.70	2.00	0.00	1.00	0.00
45.35	148.00	2.00	0.00	1.00	0.00	45.43	129.48	2.00	0.00	1.00	0.00
45.49	117.34	2.00	0.00	1.00	0.00	45.56	45.90	2.00	0.00	1.00	0.00
45.61	39.12	2.00	0.00	1.00	0.00	45.69	36.60	2.00	0.00	1.00	0.00
45.74	36.80	2.00	0.00	1.00	0.00	45.87	36.75	2.00	0.00	1.00	0.00
45.93	36.80	2.00	0.00	1.00	0.00	46.05	35.60	2.00	0.00	1.00	0.00
46.18	35.11	2.00	0.00	1.00	0.00	46.23	34.44	2.00	0.00	1.00	0.00
46.31	33.32	2.00	0.00	1.00	0.00	46.37	34.28	2.00	0.00	1.00	0.00
46.49	34.13	2.00	0.00	1.00	0.00	46.58	38.14	2.00	0.00	1.00	0.00
46.62	41.98	2.00	0.00	1.00	0.00	46.68	45.53	2.00	0.00	1.00	0.00
46.76	49.60	2.00	0.00	1.00	0.00	46.81	53.66	2.00	0.00	1.00	0.00
46.89	124.26	2.00	0.00	1.00	0.00	46.94	130.50	2.00	0.00	1.00	0.00
47.02	140.59	2.00	0.00	1.00	0.00	47.08	155.27	2.00	0.00	1.00	0.00
47.12	161.46	2.00	0.00	1.00	0.00	47.21	185.55	2.00	0.00	1.00	0.00
47.25	189.78	2.00	0.00	1.00	0.00	47.32	193.70	2.00	0.00	1.00	0.00
47.39	192.23	2.00	0.00	1.00	0.00	47.46	181.57	2.00	0.00	1.00	0.00
47.53	165.19	2.00	0.00	1.00	0.00	47.61	162.05	2.00	0.00	1.00	0.00
47.66	161.05	0.68	1.67	1.00	0.01	47.75	154.36	0.56	2.01	1.00	0.02
47.78	150.19	0.50	2.07	1.00	0.01	47.88	148.30	0.48	2.10	1.00	0.02
47.92	146.29	0.46	2.14	1.00	0.01	47.97	142.40	2.00	0.00	1.00	0.00
48.05	141.06	2.00	0.00	1.00	0.00	48.11	149.00	2.00	0.00	1.00	0.00
48.19	144.40	2.00	0.00	1.00	0.00	48.24	126.33	2.00	0.00	1.00	0.00
48.32	109.23	2.00	0.00	1.00	0.00	48.36	39.38	2.00	0.00	1.00	0.00
48.45	30.30	2.00	0.00	1.00	0.00	48.53	39.18	2.00	0.00	1.00	0.00
48.58	25.01	2.00	0.00	1.00	0.00	48.71	38.99	2.00	0.00	1.00	0.00
48.76	40.90	2.00	0.00	1.00	0.00	48.80	41.74	2.00	0.00	1.00	0.00
48.85	41.66	2.00	0.00	1.00	0.00	48.89	42.36	2.00	0.00	1.00	0.00
48.96	45.83	2.00	0.00	1.00	0.00	49.05	51.04	2.00	0.00	1.00	0.00
49.08	53.48	2.00	0.00	1.00	0.00	49.16	123.80	0.30	2.57	1.00	0.02
49.24	123.20	2.00	0.00	1.00	0.00	49.28	123.09	2.00	0.00	1.00	0.00
49.38	127.94	2.00	0.00	1.00	0.00	49.42	133.48	2.00	0.00	1.00	0.00
49.49	150.02	2.00	0.00	1.00	0.00	49.57	170.91	2.00	0.00	1.00	0.00
49.62	174.02	2.00	0.00	1.00	0.00	49.69	168.75	2.00	0.00	1.00	0.00
49.77	148.66	2.00	0.00	1.00	0.00	49.82	149.62	2.00	0.00	1.00	0.00
49.90	151.03	2.00	0.00	1.00	0.00	49.95	150.53	2.00	0.00	1.00	0.00
50.00	135.68	2.00	0.00	1.00	0.00	50.10	139.63	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)

Total estimated settlement: 3.29

Abbreviations

$Q_{tn,cs}$:	Equivalent clean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

:: Post-earthquake settlement due to soil liquefaction ::

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
5.05	166.78	1.39	0.35	1.00	0.00	5.11	167.53	1.42	0.33	1.00	0.00
5.18	168.23	1.44	0.31	1.00	0.00	5.24	168.43	1.45	0.30	1.00	0.00
5.32	167.57	1.39	0.35	1.00	0.00	5.46	166.26	1.31	0.42	1.00	0.01
5.52	167.06	1.34	0.39	1.00	0.00	5.59	168.15	1.39	0.35	1.00	0.00
5.65	168.91	1.42	0.33	1.00	0.00	5.73	168.89	1.41	0.33	1.00	0.00
5.79	166.00	1.27	0.47	1.00	0.00	5.86	164.57	1.20	0.54	1.00	0.00
5.93	164.88	1.21	0.53	1.00	0.00	6.00	163.98	1.16	0.58	1.00	0.00
6.13	161.48	1.06	0.73	1.00	0.01	6.21	159.75	1.00	0.84	1.00	0.01
6.26	157.76	0.94	0.98	1.00	0.01	6.35	156.18	0.89	1.10	1.00	0.01
6.40	154.70	0.85	1.23	1.00	0.01	6.54	148.25	0.71	1.95	1.00	0.03
6.62	143.35	0.63	2.18	1.00	0.02	6.68	138.91	0.57	2.26	1.00	0.02
6.75	134.17	0.52	2.35	1.00	0.02	6.79	129.70	0.48	2.44	1.00	0.01
6.88	123.09	0.42	2.58	1.00	0.03	6.99	107.78	0.34	2.97	1.00	0.04
7.11	90.84	0.28	3.54	1.00	0.05	7.14	95.03	0.29	3.38	1.00	0.01
7.17	99.71	0.31	3.22	1.00	0.01	7.24	100.53	0.31	3.20	1.00	0.03
7.29	102.18	0.31	3.14	1.00	0.02	7.37	104.11	0.32	3.08	1.00	0.03
7.44	105.03	0.32	3.05	1.00	0.03	7.51	105.64	0.32	3.04	1.00	0.02
7.55	106.03	0.32	3.03	1.00	0.02	7.64	107.96	0.33	2.97	1.00	0.03
7.68	108.47	0.33	2.95	1.00	0.01	7.92	109.94	0.33	2.91	1.00	0.08
7.99	111.40	0.34	2.87	1.00	0.02	8.05	112.48	0.34	2.84	1.00	0.02
8.19	116.23	0.36	2.75	1.00	0.05	8.25	117.23	0.36	2.72	1.00	0.02
8.32	117.99	0.36	2.70	1.00	0.02	8.52	113.84	0.34	2.81	1.00	0.07
8.66	109.33	0.32	2.93	1.00	0.05	8.72	107.16	0.31	2.99	1.00	0.02
8.79	105.37	0.30	3.04	1.00	0.02	8.92	105.32	0.30	3.05	1.00	0.05
8.98	106.56	0.30	3.01	1.00	0.02	9.05	107.71	0.31	2.98	1.00	0.02
9.14	109.27	0.31	2.93	1.00	0.03	9.19	109.79	0.31	2.92	1.00	0.02
9.27	109.53	0.31	2.92	1.00	0.03	9.34	108.83	0.31	2.94	1.00	0.02
9.41	106.92	0.30	3.00	1.00	0.03	9.46	104.04	0.29	3.09	1.00	0.02
9.54	102.85	0.29	3.12	1.00	0.03	9.60	104.48	0.29	3.07	1.00	0.02
9.67	91.59	0.25	3.51	1.00	0.03	9.76	93.00	0.25	3.46	1.00	0.04
9.81	93.70	0.26	3.43	1.00	0.02	9.89	94.09	0.26	3.42	1.00	0.03
9.95	89.99	0.24	3.57	1.00	0.02	9.96	90.24	0.25	3.56	1.00	0.01
9.99	90.13	0.24	3.57	1.00	0.01	10.08	90.22	0.24	3.56	1.00	0.04
10.14	88.74	2.00	0.00	1.00	0.00	10.18	88.81	2.00	0.00	1.00	0.00
10.27	101.45	2.00	0.00	1.00	0.00	10.33	105.74	2.00	0.00	1.00	0.00
10.38	107.43	2.00	0.00	1.00	0.00	10.47	102.26	2.00	0.00	1.00	0.00
10.55	96.24	2.00	0.00	1.00	0.00	10.61	90.10	2.00	0.00	1.00	0.00
10.69	25.80	2.00	0.00	1.00	0.00	10.75	21.21	2.00	0.00	1.00	0.00
10.82	18.12	2.00	0.00	1.00	0.00	10.87	15.00	2.00	0.00	1.00	0.00
10.96	12.76	2.00	0.00	1.00	0.00	11.09	11.81	2.00	0.00	1.00	0.00
11.16	11.28	2.00	0.00	1.00	0.00	11.23	11.00	2.00	0.00	1.00	0.00
11.29	10.59	2.00	0.00	1.00	0.00	11.36	10.32	2.00	0.00	1.00	0.00
11.44	9.77	2.00	0.00	1.00	0.00	11.57	9.09	2.00	0.00	1.00	0.00
11.64	9.08	2.00	0.00	1.00	0.00	11.71	8.80	2.00	0.00	1.00	0.00
11.78	9.31	2.00	0.00	1.00	0.00	11.84	11.23	2.00	0.00	1.00	0.00
11.91	13.91	2.00	0.00	1.00	0.00	11.98	15.68	2.00	0.00	1.00	0.00
12.06	15.77	2.00	0.00	1.00	0.00	12.12	14.85	2.00	0.00	1.00	0.00
12.20	14.70	2.00	0.00	1.00	0.00	12.33	14.66	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
12.39	14.51	2.00	0.00	1.00	0.00	12.46	17.13	2.00	0.00	1.00	0.00
12.55	19.43	2.00	0.00	1.00	0.00	12.57	17.56	2.00	0.00	1.00	0.00
12.60	17.54	2.00	0.00	1.00	0.00	12.72	26.23	2.00	0.00	1.00	0.00
12.77	29.55	2.00	0.00	1.00	0.00	12.85	90.10	0.22	3.57	1.00	0.03
12.91	29.34	2.00	0.00	1.00	0.00	12.99	27.85	2.00	0.00	1.00	0.00
13.04	27.82	2.00	0.00	1.00	0.00	13.12	27.78	2.00	0.00	1.00	0.00
13.19	27.75	2.00	0.00	1.00	0.00	13.25	90.92	2.00	0.00	1.00	0.00
13.30	96.07	2.00	0.00	1.00	0.00	13.39	101.32	2.00	0.00	1.00	0.00
13.45	101.41	2.00	0.00	1.00	0.00	13.52	101.55	2.00	0.00	1.00	0.00
13.58	96.67	2.00	0.00	1.00	0.00	13.65	89.92	2.00	0.00	1.00	0.00
13.74	25.29	2.00	0.00	1.00	0.00	13.79	21.83	2.00	0.00	1.00	0.00
13.87	19.17	2.00	0.00	1.00	0.00	13.92	16.86	2.00	0.00	1.00	0.00
14.01	16.00	2.00	0.00	1.00	0.00	14.05	15.74	2.00	0.00	1.00	0.00
14.14	15.62	2.00	0.00	1.00	0.00	14.22	15.11	2.00	0.00	1.00	0.00
14.28	14.26	2.00	0.00	1.00	0.00	14.40	13.25	2.00	0.00	1.00	0.00
14.49	13.23	2.00	0.00	1.00	0.00	14.55	13.22	2.00	0.00	1.00	0.00
14.63	13.44	2.00	0.00	1.00	0.00	14.69	13.67	2.00	0.00	1.00	0.00
14.82	13.88	2.00	0.00	1.00	0.00	14.89	14.09	2.00	0.00	1.00	0.00
14.95	14.67	2.00	0.00	1.00	0.00	15.03	16.18	2.00	0.00	1.00	0.00
15.12	17.46	2.00	0.00	1.00	0.00	15.19	18.01	2.00	0.00	1.00	0.00
15.25	17.99	2.00	0.00	1.00	0.00	15.33	17.72	2.00	0.00	1.00	0.00
15.38	17.35	2.00	0.00	1.00	0.00	15.47	17.22	2.00	0.00	1.00	0.00
15.52	17.43	2.00	0.00	1.00	0.00	15.60	16.81	2.00	0.00	1.00	0.00
15.67	16.08	2.00	0.00	1.00	0.00	15.73	15.47	2.00	0.00	1.00	0.00
15.75	15.18	2.00	0.00	1.00	0.00	15.76	13.46	2.00	0.00	1.00	0.00
15.85	14.84	2.00	0.00	1.00	0.00	15.89	14.83	2.00	0.00	1.00	0.00
15.98	14.22	2.00	0.00	1.00	0.00	16.08	14.08	2.00	0.00	1.00	0.00
16.14	14.06	2.00	0.00	1.00	0.00	16.20	14.05	2.00	0.00	1.00	0.00
16.26	13.56	2.00	0.00	1.00	0.00	16.34	13.66	2.00	0.00	1.00	0.00
16.39	13.52	2.00	0.00	1.00	0.00	16.47	12.68	2.00	0.00	1.00	0.00
16.54	11.97	2.00	0.00	1.00	0.00	16.60	11.96	2.00	0.00	1.00	0.00
16.67	11.59	2.00	0.00	1.00	0.00	16.74	11.35	2.00	0.00	1.00	0.00
16.82	11.33	2.00	0.00	1.00	0.00	16.87	11.32	2.00	0.00	1.00	0.00
16.95	11.30	2.00	0.00	1.00	0.00	17.01	11.63	2.00	0.00	1.00	0.00
17.08	11.96	2.00	0.00	1.00	0.00	17.22	12.73	2.00	0.00	1.00	0.00
17.27	13.05	2.00	0.00	1.00	0.00	17.36	13.72	2.00	0.00	1.00	0.00
17.49	15.04	2.00	0.00	1.00	0.00	17.56	15.58	2.00	0.00	1.00	0.00
17.62	16.58	2.00	0.00	1.00	0.00	17.68	17.45	2.00	0.00	1.00	0.00
17.75	18.43	2.00	0.00	1.00	0.00	17.80	19.62	2.00	0.00	1.00	0.00
17.88	21.80	2.00	0.00	1.00	0.00	17.96	24.51	2.00	0.00	1.00	0.00
18.02	26.45	2.00	0.00	1.00	0.00	18.10	27.71	2.00	0.00	1.00	0.00
18.24	31.10	2.00	0.00	1.00	0.00	18.30	92.59	2.00	0.00	1.00	0.00
18.37	93.50	2.00	0.00	1.00	0.00	18.43	91.77	2.00	0.00	1.00	0.00
18.58	95.09	2.00	0.00	1.00	0.00	18.64	98.77	0.22	3.25	1.00	0.02
18.66	96.52	0.21	3.33	1.00	0.01	18.72	101.96	0.23	3.15	1.00	0.02
18.80	101.91	0.23	3.15	1.00	0.03	18.85	101.87	0.23	3.15	1.00	0.02
18.94	102.38	0.23	3.14	1.00	0.03	18.98	102.55	0.23	3.13	1.00	0.02
19.07	101.78	0.23	3.16	1.00	0.03	19.14	101.65	0.23	3.16	1.00	0.02

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
19.20	101.86	0.23	3.15	1.00	0.02	19.25	102.09	0.23	3.15	1.00	0.02
19.30	103.38	0.23	3.11	1.00	0.02	19.38	106.19	0.24	3.02	1.00	0.03
19.46	107.24	0.24	2.99	1.00	0.03	19.52	106.86	0.24	3.00	1.00	0.02
19.60	108.32	0.24	2.96	1.00	0.03	19.73	111.12	0.25	2.88	1.00	0.04
19.79	111.55	0.25	2.87	1.00	0.02	19.87	113.13	0.26	2.83	1.00	0.03
20.00	117.41	0.27	2.72	1.00	0.04	20.05	119.86	0.28	2.66	1.00	0.02
20.13	122.67	0.30	2.59	1.00	0.02	20.19	124.14	0.30	2.56	1.00	0.02
20.26	125.59	0.31	2.53	1.00	0.02	20.39	128.08	0.32	2.47	1.00	0.04
20.45	129.02	0.33	2.45	1.00	0.02	20.53	130.17	0.34	2.43	1.00	0.02
20.59	130.62	0.34	2.42	1.00	0.02	20.72	131.94	0.35	2.40	1.00	0.04
20.80	132.30	0.35	2.39	1.00	0.02	20.85	132.57	0.35	2.38	1.00	0.01
20.93	132.11	0.35	2.39	1.00	0.02	21.00	130.09	0.33	2.43	1.00	0.02
21.06	128.09	0.32	2.47	1.00	0.02	21.20	118.25	0.28	2.70	1.00	0.04
21.28	116.98	0.27	2.73	1.00	0.03	21.34	117.07	0.27	2.73	1.00	0.02
21.41	118.40	0.28	2.69	1.00	0.02	21.48	123.80	0.30	2.57	1.00	0.02
21.55	120.07	0.28	2.65	1.00	0.02	21.62	114.26	0.26	2.80	1.00	0.02
21.68	118.58	0.28	2.69	1.00	0.02	21.76	122.32	0.29	2.60	1.00	0.03
21.82	123.47	0.30	2.57	1.00	0.02	21.84	119.25	0.28	2.67	1.00	0.01
21.85	117.80	0.27	2.71	1.00	0.00	21.94	122.96	0.29	2.59	1.00	0.03
21.99	122.64	0.29	2.59	1.00	0.01	22.06	121.39	0.29	2.62	1.00	0.02
22.14	120.16	0.28	2.65	1.00	0.03	22.21	120.24	0.28	2.65	1.00	0.02
22.31	119.84	0.28	2.66	1.00	0.03	22.39	119.50	0.28	2.67	1.00	0.03
22.45	118.42	0.27	2.69	1.00	0.02	22.50	116.23	0.27	2.75	1.00	0.02
22.54	112.94	0.25	2.83	1.00	0.01	22.60	107.44	2.00	0.00	1.00	0.00
22.65	106.30	2.00	0.00	1.00	0.00	22.73	108.95	2.00	0.00	1.00	0.00
22.79	106.87	2.00	0.00	1.00	0.00	22.87	98.79	2.00	0.00	1.00	0.00
22.93	30.07	2.00	0.00	1.00	0.00	23.00	23.72	2.00	0.00	1.00	0.00
23.07	19.35	2.00	0.00	1.00	0.00	23.14	17.02	2.00	0.00	1.00	0.00
23.22	17.79	2.00	0.00	1.00	0.00	23.27	20.60	2.00	0.00	1.00	0.00
23.35	24.97	2.00	0.00	1.00	0.00	23.41	30.39	2.00	0.00	1.00	0.00
23.49	34.80	2.00	0.00	1.00	0.00	23.56	98.43	0.21	3.27	1.00	0.03
23.62	97.97	0.21	3.28	1.00	0.02	23.68	95.55	0.20	3.36	1.00	0.02
23.76	93.18	0.20	3.45	1.00	0.03	23.84	91.22	0.20	3.53	1.00	0.03
23.91	27.81	2.00	0.00	1.00	0.00	23.98	23.73	2.00	0.00	1.00	0.00
24.11	16.63	2.00	0.00	1.00	0.00	24.18	14.32	2.00	0.00	1.00	0.00
24.24	13.00	2.00	0.00	1.00	0.00	24.36	14.18	2.00	0.00	1.00	0.00
24.42	12.77	2.00	0.00	1.00	0.00	24.48	14.05	2.00	0.00	1.00	0.00
24.52	14.44	2.00	0.00	1.00	0.00	24.56	9.35	2.00	0.00	1.00	0.00
24.64	23.38	2.00	0.00	1.00	0.00	24.68	24.54	2.00	0.00	1.00	0.00
24.78	26.07	2.00	0.00	1.00	0.00	24.81	27.42	2.00	0.00	1.00	0.00
24.90	31.95	2.00	0.00	1.00	0.00	24.97	101.12	2.00	0.00	1.00	0.00
25.02	105.60	2.00	0.00	1.00	0.00	25.09	110.38	2.00	0.00	1.00	0.00
25.18	108.48	2.00	0.00	1.00	0.00	25.22	107.41	2.00	0.00	1.00	0.00
25.26	107.16	2.00	0.00	1.00	0.00	25.39	108.06	0.23	2.97	1.00	0.05
25.44	108.62	0.24	2.95	1.00	0.02	25.48	109.63	0.24	2.92	1.00	0.01
25.57	111.34	0.24	2.87	1.00	0.03	25.61	112.38	0.25	2.85	1.00	0.02
25.70	114.91	0.26	2.78	1.00	0.03	25.74	116.08	0.26	2.75	1.00	0.01
25.79	116.72	0.26	2.73	1.00	0.01	25.88	116.27	0.26	2.75	1.00	0.03

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
25.94	114.86	0.26	2.78	1.00	0.02	26.01	113.27	0.25	2.82	1.00	0.02
26.06	112.82	0.25	2.83	1.00	0.02	26.12	113.01	0.25	2.83	1.00	0.02
26.19	113.12	2.00	0.00	1.00	0.00	26.30	113.96	2.00	0.00	1.00	0.00
26.36	113.56	2.00	0.00	1.00	0.00	26.42	110.03	2.00	0.00	1.00	0.00
26.48	104.02	2.00	0.00	1.00	0.00	26.55	95.28	2.00	0.00	1.00	0.00
26.60	27.40	2.00	0.00	1.00	0.00	26.67	20.79	2.00	0.00	1.00	0.00
26.72	16.19	2.00	0.00	1.00	0.00	26.78	13.22	2.00	0.00	1.00	0.00
26.85	11.58	2.00	0.00	1.00	0.00	26.97	9.26	2.00	0.00	1.00	0.00
27.03	8.48	2.00	0.00	1.00	0.00	27.08	7.99	2.00	0.00	1.00	0.00
27.12	6.55	2.00	0.00	1.00	0.00	27.20	7.13	2.00	0.00	1.00	0.00
27.24	7.12	2.00	0.00	1.00	0.00	27.30	7.02	2.00	0.00	1.00	0.00
27.43	6.92	2.00	0.00	1.00	0.00	27.48	7.01	2.00	0.00	1.00	0.00
27.52	6.81	2.00	0.00	1.00	0.00	27.61	7.00	2.00	0.00	1.00	0.00
27.65	7.19	2.00	0.00	1.00	0.00	27.70	7.47	2.00	0.00	1.00	0.00
27.80	7.75	2.00	0.00	1.00	0.00	27.85	7.74	2.00	0.00	1.00	0.00
27.90	7.84	2.00	0.00	1.00	0.00	28.05	7.72	2.00	0.00	1.00	0.00
28.10	7.91	2.00	0.00	1.00	0.00	28.14	8.10	2.00	0.00	1.00	0.00
28.18	8.00	2.00	0.00	1.00	0.00	28.29	7.80	2.00	0.00	1.00	0.00
28.36	7.70	2.00	0.00	1.00	0.00	28.41	7.60	2.00	0.00	1.00	0.00
28.50	7.12	2.00	0.00	1.00	0.00	28.57	6.73	2.00	0.00	1.00	0.00
28.62	6.73	2.00	0.00	1.00	0.00	28.68	6.83	2.00	0.00	1.00	0.00
28.73	6.82	2.00	0.00	1.00	0.00	28.84	7.95	2.00	0.00	1.00	0.00
28.89	8.60	2.00	0.00	1.00	0.00	28.96	9.16	2.00	0.00	1.00	0.00
29.02	9.72	2.00	0.00	1.00	0.00	29.07	9.06	2.00	0.00	1.00	0.00
29.15	8.95	2.00	0.00	1.00	0.00	29.23	9.41	2.00	0.00	1.00	0.00
29.29	9.21	2.00	0.00	1.00	0.00	29.38	9.68	2.00	0.00	1.00	0.00
29.42	10.70	2.00	0.00	1.00	0.00	29.46	12.19	2.00	0.00	1.00	0.00
29.56	16.08	2.00	0.00	1.00	0.00	29.62	17.37	2.00	0.00	1.00	0.00
29.68	18.36	2.00	0.00	1.00	0.00	29.73	19.29	2.00	0.00	1.00	0.00
29.86	21.37	2.00	0.00	1.00	0.00	29.99	24.00	2.00	0.00	1.00	0.00
30.05	23.89	2.00	0.00	1.00	0.00	30.13	22.57	2.00	0.00	1.00	0.00
30.17	20.43	2.00	0.00	1.00	0.00	30.26	17.84	2.00	0.00	1.00	0.00
30.32	16.07	2.00	0.00	1.00	0.00	30.39	15.87	2.00	0.00	1.00	0.00
30.47	17.14	2.00	0.00	1.00	0.00	30.53	18.68	2.00	0.00	1.00	0.00
30.60	20.21	2.00	0.00	1.00	0.00	30.66	21.75	2.00	0.00	1.00	0.00
30.75	22.36	2.00	0.00	1.00	0.00	30.81	22.07	2.00	0.00	1.00	0.00
30.88	20.95	2.00	0.00	1.00	0.00	30.93	19.47	2.00	0.00	1.00	0.00
31.02	17.36	2.00	0.00	1.00	0.00	31.06	15.25	2.00	0.00	1.00	0.00
31.28	11.30	2.00	0.00	1.00	0.00	31.35	10.57	2.00	0.00	1.00	0.00
31.38	8.38	2.00	0.00	1.00	0.00	31.44	9.73	2.00	0.00	1.00	0.00
31.51	9.91	2.00	0.00	1.00	0.00	31.59	10.26	2.00	0.00	1.00	0.00
31.64	10.26	2.00	0.00	1.00	0.00	31.74	10.15	2.00	0.00	1.00	0.00
31.79	9.96	2.00	0.00	1.00	0.00	31.83	9.69	2.00	0.00	1.00	0.00
31.90	9.59	2.00	0.00	1.00	0.00	31.99	9.31	2.00	0.00	1.00	0.00
32.04	9.31	2.00	0.00	1.00	0.00	32.20	9.37	2.00	0.00	1.00	0.00
32.25	9.28	2.00	0.00	1.00	0.00	32.30	9.72	2.00	0.00	1.00	0.00
32.37	10.61	2.00	0.00	1.00	0.00	32.43	11.41	2.00	0.00	1.00	0.00
32.47	12.03	2.00	0.00	1.00	0.00	32.52	12.12	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
32.57	12.01	2.00	0.00	1.00	0.00	32.70	11.55	2.00	0.00	1.00	0.00
32.74	11.45	2.00	0.00	1.00	0.00	32.81	11.35	2.00	0.00	1.00	0.00
32.87	11.70	2.00	0.00	1.00	0.00	32.92	12.58	2.00	0.00	1.00	0.00
32.98	13.38	2.00	0.00	1.00	0.00	33.05	14.07	2.00	0.00	1.00	0.00
33.11	14.34	2.00	0.00	1.00	0.00	33.22	14.84	2.00	0.00	1.00	0.00
33.28	15.27	2.00	0.00	1.00	0.00	33.36	15.62	2.00	0.00	1.00	0.00
33.40	15.07	2.00	0.00	1.00	0.00	33.48	13.55	2.00	0.00	1.00	0.00
33.59	13.53	2.00	0.00	1.00	0.00	33.66	13.61	2.00	0.00	1.00	0.00
33.72	13.78	2.00	0.00	1.00	0.00	33.78	13.76	2.00	0.00	1.00	0.00
33.84	12.78	2.00	0.00	1.00	0.00	33.89	12.24	2.00	0.00	1.00	0.00
33.97	11.88	2.00	0.00	1.00	0.00	34.02	11.87	2.00	0.00	1.00	0.00
34.08	11.86	2.00	0.00	1.00	0.00	34.20	11.84	2.00	0.00	1.00	0.00
34.26	12.80	2.00	0.00	1.00	0.00	34.37	13.83	2.00	0.00	1.00	0.00
34.42	15.05	2.00	0.00	1.00	0.00	34.49	15.08	2.00	0.00	1.00	0.00
34.54	15.07	2.00	0.00	1.00	0.00	34.62	15.10	2.00	0.00	1.00	0.00
34.66	15.53	2.00	0.00	1.00	0.00	34.73	15.60	2.00	0.00	1.00	0.00
34.80	14.98	2.00	0.00	1.00	0.00	34.88	14.87	2.00	0.00	1.00	0.00
34.93	14.69	2.00	0.00	1.00	0.00	35.01	13.63	2.00	0.00	1.00	0.00
35.06	13.62	2.00	0.00	1.00	0.00	35.11	13.26	2.00	0.00	1.00	0.00
35.21	12.47	2.00	0.00	1.00	0.00	35.25	11.07	2.00	0.00	1.00	0.00
35.34	10.28	2.00	0.00	1.00	0.00	35.38	10.02	2.00	0.00	1.00	0.00
35.44	10.01	2.00	0.00	1.00	0.00	35.50	10.17	2.00	0.00	1.00	0.00
35.60	10.68	2.00	0.00	1.00	0.00	35.64	10.84	2.00	0.00	1.00	0.00
35.71	11.09	2.00	0.00	1.00	0.00	35.77	11.18	2.00	0.00	1.00	0.00
35.86	10.99	2.00	0.00	1.00	0.00	35.92	10.98	2.00	0.00	1.00	0.00
36.03	10.97	2.00	0.00	1.00	0.00	36.06	10.96	2.00	0.00	1.00	0.00
36.12	11.03	2.00	0.00	1.00	0.00	36.21	11.97	2.00	0.00	1.00	0.00
36.27	12.56	2.00	0.00	1.00	0.00	36.30	13.24	2.00	0.00	1.00	0.00
36.39	13.91	2.00	0.00	1.00	0.00	36.45	14.50	2.00	0.00	1.00	0.00
36.52	15.34	2.00	0.00	1.00	0.00	36.58	16.19	2.00	0.00	1.00	0.00
36.65	17.28	2.00	0.00	1.00	0.00	36.79	18.18	2.00	0.00	1.00	0.00
36.92	16.12	2.00	0.00	1.00	0.00	37.00	15.41	2.00	0.00	1.00	0.00
37.05	15.23	2.00	0.00	1.00	0.00	37.14	15.56	2.00	0.00	1.00	0.00
37.24	16.47	2.00	0.00	1.00	0.00	37.26	14.68	2.00	0.00	1.00	0.00
37.28	18.33	2.00	0.00	1.00	0.00	37.35	24.69	2.00	0.00	1.00	0.00
37.41	28.66	2.00	0.00	1.00	0.00	37.48	32.56	2.00	0.00	1.00	0.00
37.55	99.41	2.00	0.00	1.00	0.00	37.61	105.97	2.00	0.00	1.00	0.00
37.75	117.33	2.00	0.00	1.00	0.00	37.78	122.63	2.00	0.00	1.00	0.00
37.83	127.69	2.00	0.00	1.00	0.00	37.90	133.98	2.00	0.00	1.00	0.00
37.94	132.37	2.00	0.00	1.00	0.00	38.03	121.59	2.00	0.00	1.00	0.00
38.07	120.07	2.00	0.00	1.00	0.00	38.17	110.13	2.00	0.00	1.00	0.00
38.28	108.42	0.23	2.96	1.00	0.04	38.31	116.92	0.26	2.73	1.00	0.01
38.37	130.87	0.32	2.42	1.00	0.02	38.42	136.42	0.36	2.31	1.00	0.01
38.59	133.74	0.34	2.36	1.00	0.05	38.64	131.65	0.33	2.40	1.00	0.01
38.69	134.05	0.34	2.35	1.00	0.02	38.82	129.10	0.31	2.45	1.00	0.04
38.90	134.24	0.34	2.35	1.00	0.02	38.95	140.79	0.39	2.23	1.00	0.01
39.03	142.76	0.41	2.19	1.00	0.02	39.10	142.05	0.40	2.21	1.00	0.02
39.17	141.51	0.40	2.22	1.00	0.02	39.23	141.08	0.39	2.22	1.00	0.02

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
39.37	139.18	0.38	2.26	1.00	0.04	39.51	138.23	0.37	2.28	1.00	0.04
39.56	142.89	0.41	2.19	1.00	0.02	39.64	145.47	0.43	2.15	1.00	0.02
39.70	150.56	0.49	2.07	1.00	0.01	39.82	153.87	0.54	2.02	1.00	0.03
39.84	154.14	0.54	2.01	1.00	0.01	39.94	157.62	0.60	1.87	1.00	0.02
40.01	152.13	2.00	0.00	1.00	0.00	40.05	139.99	2.00	0.00	1.00	0.00
40.12	125.01	2.00	0.00	1.00	0.00	40.18	112.18	2.00	0.00	1.00	0.00
40.23	103.18	2.00	0.00	1.00	0.00	40.31	35.84	2.00	0.00	1.00	0.00
40.36	30.77	2.00	0.00	1.00	0.00	40.45	26.54	2.00	0.00	1.00	0.00
40.50	23.57	2.00	0.00	1.00	0.00	40.63	32.55	2.00	0.00	1.00	0.00
40.71	105.05	2.00	0.00	1.00	0.00	40.77	111.63	2.00	0.00	1.00	0.00
40.85	114.60	2.00	0.00	1.00	0.00	40.90	114.33	2.00	0.00	1.00	0.00
40.98	109.17	2.00	0.00	1.00	0.00	41.06	100.68	2.00	0.00	1.00	0.00
41.11	31.88	2.00	0.00	1.00	0.00	41.17	26.64	2.00	0.00	1.00	0.00
41.25	23.76	2.00	0.00	1.00	0.00	41.31	21.63	2.00	0.00	1.00	0.00
41.38	22.43	2.00	0.00	1.00	0.00	41.47	25.49	2.00	0.00	1.00	0.00
41.53	27.26	2.00	0.00	1.00	0.00	41.60	95.26	2.00	0.00	1.00	0.00
41.66	114.32	2.00	0.00	1.00	0.00	41.73	122.98	2.00	0.00	1.00	0.00
41.80	115.21	2.00	0.00	1.00	0.00	41.87	124.60	2.00	0.00	1.00	0.00
41.95	124.51	0.29	2.55	1.00	0.02	42.00	120.46	0.27	2.64	1.00	0.02
42.09	134.48	0.35	2.35	1.00	0.02	42.15	143.71	0.42	2.18	1.00	0.01
42.22	128.15	2.00	0.00	1.00	0.00	42.26	131.58	2.00	0.00	1.00	0.00
42.33	128.21	2.00	0.00	1.00	0.00	42.40	123.23	2.00	0.00	1.00	0.00
42.44	116.43	2.00	0.00	1.00	0.00	42.49	106.81	2.00	0.00	1.00	0.00
42.50	36.47	2.00	0.00	1.00	0.00	42.54	101.52	0.22	3.16	1.00	0.01
42.59	36.44	2.00	0.00	1.00	0.00	42.65	31.32	2.00	0.00	1.00	0.00
42.76	31.16	2.00	0.00	1.00	0.00	42.81	31.02	2.00	0.00	1.00	0.00
42.89	110.64	2.00	0.00	1.00	0.00	43.02	155.77	2.00	0.00	1.00	0.00
43.08	163.57	2.00	0.00	1.00	0.00	43.16	169.97	2.00	0.00	1.00	0.00
43.20	173.39	2.00	0.00	1.00	0.00	43.26	177.37	2.00	0.00	1.00	0.00
43.33	179.86	2.00	0.00	1.00	0.00	43.38	180.62	2.00	0.00	1.00	0.00
43.43	180.19	2.00	0.00	1.00	0.00	43.50	178.18	1.24	0.47	1.00	0.00
43.55	177.16	1.19	0.52	1.00	0.00	43.60	176.82	1.17	0.54	1.00	0.00
43.67	177.50	1.20	0.51	1.00	0.00	43.72	179.19	1.29	0.42	1.00	0.00
43.78	181.10	1.40	0.33	1.00	0.00	43.89	186.07	1.76	0.11	1.00	0.00
43.95	186.37	1.79	0.09	1.00	0.00	44.00	184.20	1.61	0.18	1.00	0.00
44.06	180.07	1.34	0.37	1.00	0.00	44.13	173.75	1.04	0.71	1.00	0.01
44.21	163.36	0.72	1.52	1.00	0.01	44.26	152.83	0.53	2.03	1.00	0.01
44.35	146.29	0.45	2.14	1.00	0.02	44.40	145.56	0.44	2.15	1.00	0.01
44.48	153.09	0.53	2.03	1.00	0.02	44.54	166.95	0.81	1.19	1.00	0.01
44.62	170.99	0.93	0.89	1.00	0.01	44.66	168.08	0.84	1.10	1.00	0.01
44.80	167.94	0.84	1.11	1.00	0.02	44.87	168.23	0.85	1.08	1.00	0.01
44.90	168.22	0.85	1.08	1.00	0.00	45.04	168.14	0.84	1.09	1.00	0.02
45.12	167.42	2.00	0.00	1.00	0.00	45.25	164.32	2.00	0.00	1.00	0.00
45.31	161.96	2.00	0.00	1.00	0.00	45.44	155.24	2.00	0.00	1.00	0.00
45.52	149.94	2.00	0.00	1.00	0.00	45.58	141.78	2.00	0.00	1.00	0.00
45.72	118.57	2.00	0.00	1.00	0.00	45.79	116.93	2.00	0.00	1.00	0.00
45.85	115.71	2.00	0.00	1.00	0.00	45.99	113.71	2.00	0.00	1.00	0.00
46.06	123.76	2.00	0.00	1.00	0.00	46.12	118.10	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
46.19	106.13	2.00	0.00	1.00	0.00	46.26	34.77	2.00	0.00	1.00	0.00
46.33	26.82	2.00	0.00	1.00	0.00	46.42	22.18	2.00	0.00	1.00	0.00
46.47	19.95	2.00	0.00	1.00	0.00	46.60	18.85	2.00	0.00	1.00	0.00
46.68	17.62	2.00	0.00	1.00	0.00	46.73	16.54	2.00	0.00	1.00	0.00
46.81	15.47	2.00	0.00	1.00	0.00	46.87	14.48	2.00	0.00	1.00	0.00
46.95	14.09	2.00	0.00	1.00	0.00	47.03	13.93	2.00	0.00	1.00	0.00
47.08	13.77	2.00	0.00	1.00	0.00	47.21	14.27	2.00	0.00	1.00	0.00
47.30	14.71	2.00	0.00	1.00	0.00	47.35	14.93	2.00	0.00	1.00	0.00
47.44	14.99	2.00	0.00	1.00	0.00	47.48	14.76	2.00	0.00	1.00	0.00
47.57	14.52	2.00	0.00	1.00	0.00	47.62	14.29	2.00	0.00	1.00	0.00
47.70	14.12	2.00	0.00	1.00	0.00	47.78	14.04	2.00	0.00	1.00	0.00
47.83	13.96	2.00	0.00	1.00	0.00	47.91	13.95	2.00	0.00	1.00	0.00
47.97	13.94	2.00	0.00	1.00	0.00	48.05	14.08	2.00	0.00	1.00	0.00
48.11	14.07	2.00	0.00	1.00	0.00	48.19	13.99	2.00	0.00	1.00	0.00
48.24	13.53	2.00	0.00	1.00	0.00	48.26	12.19	2.00	0.00	1.00	0.00
48.31	13.08	2.00	0.00	1.00	0.00	48.43	16.86	2.00	0.00	1.00	0.00
48.49	18.20	2.00	0.00	1.00	0.00	48.61	18.77	2.00	0.00	1.00	0.00
48.69	18.23	2.00	0.00	1.00	0.00	48.75	17.39	2.00	0.00	1.00	0.00
48.88	14.56	2.00	0.00	1.00	0.00	48.96	13.21	2.00	0.00	1.00	0.00
49.01	12.25	2.00	0.00	1.00	0.00	49.09	13.09	2.00	0.00	1.00	0.00
49.23	12.96	2.00	0.00	1.00	0.00	49.28	14.14	2.00	0.00	1.00	0.00
49.36	15.09	2.00	0.00	1.00	0.00	49.41	16.12	2.00	0.00	1.00	0.00
49.50	18.40	2.00	0.00	1.00	0.00	49.56	25.05	2.00	0.00	1.00	0.00
49.63	35.28	2.00	0.00	1.00	0.00	49.69	44.81	2.00	0.00	1.00	0.00
49.77	48.99	2.00	0.00	1.00	0.00	49.85	51.22	2.00	0.00	1.00	0.00
49.90	115.40	0.26	2.77	1.00	0.02	49.98	110.24	0.25	2.90	1.00	0.03
50.04	42.15	2.00	0.00	1.00	0.00	50.12	101.62	0.22	3.16	1.00	0.03
50.20	99.05	0.22	3.24	1.00	0.03	50.26	33.81	2.00	0.00	1.00	0.00
50.34	28.81	2.00	0.00	1.00	0.00	50.39	24.98	2.00	0.00	1.00	0.00
50.53	31.71	2.00	0.00	1.00	0.00	50.61	46.73	2.00	0.00	1.00	0.00
50.66	117.65	0.27	2.71	1.00	0.02	50.74	114.48	2.00	0.00	1.00	0.00
50.80	123.48	2.00	0.00	1.00	0.00	50.87	146.15	2.00	0.00	1.00	0.00
50.95	157.18	2.00	0.00	1.00	0.00	51.00	162.91	2.00	0.00	1.00	0.00
51.14	171.92	0.98	0.80	1.00	0.01	51.22	179.73	1.34	0.38	1.00	0.00
51.27	173.17	1.03	0.73	1.00	0.00	51.53	163.00	0.72	1.50	1.00	0.05
51.59	161.52	0.69	1.64	1.00	0.01	51.67	160.77	2.00	0.00	1.00	0.00
51.71	160.79	2.00	0.00	1.00	0.00	51.79	168.07	2.00	0.00	1.00	0.00
51.88	164.29	2.00	0.00	1.00	0.00	51.93	151.86	2.00	0.00	1.00	0.00
51.97	139.20	2.00	0.00	1.00	0.00	52.07	46.58	2.00	0.00	1.00	0.00
52.12	37.07	2.00	0.00	1.00	0.00	52.19	30.32	2.00	0.00	1.00	0.00
52.24	26.17	2.00	0.00	1.00	0.00	52.34	20.86	2.00	0.00	1.00	0.00
52.42	18.38	2.00	0.00	1.00	0.00	52.47	16.35	2.00	0.00	1.00	0.00
52.51	14.97	2.00	0.00	1.00	0.00	52.64	14.11	2.00	0.00	1.00	0.00
52.68	13.88	2.00	0.00	1.00	0.00	52.73	13.38	2.00	0.00	1.00	0.00
52.80	12.87	2.00	0.00	1.00	0.00	52.86	12.65	2.00	0.00	1.00	0.00
52.96	13.14	2.00	0.00	1.00	0.00	53.02	13.13	2.00	0.00	1.00	0.00
53.08	13.12	2.00	0.00	1.00	0.00	53.13	13.12	2.00	0.00	1.00	0.00
53.17	13.11	2.00	0.00	1.00	0.00	53.23	13.10	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
53.30	13.09	2.00	0.00	1.00	0.00	53.40	14.08	2.00	0.00	1.00	0.00
53.45	14.92	2.00	0.00	1.00	0.00	53.53	15.41	2.00	0.00	1.00	0.00
53.57	15.40	2.00	0.00	1.00	0.00	53.69	13.69	2.00	0.00	1.00	0.00
53.75	15.27	2.00	0.00	1.00	0.00	53.79	12.75	2.00	0.00	1.00	0.00
53.92	15.14	2.00	0.00	1.00	0.00	53.97	17.62	2.00	0.00	1.00	0.00
54.02	20.40	2.00	0.00	1.00	0.00	54.08	22.76	2.00	0.00	1.00	0.00
54.14	27.15	2.00	0.00	1.00	0.00	54.19	33.49	2.00	0.00	1.00	0.00
54.25	35.90	2.00	0.00	1.00	0.00	54.30	35.52	2.00	0.00	1.00	0.00
54.36	32.87	2.00	0.00	1.00	0.00	54.41	29.20	2.00	0.00	1.00	0.00
54.47	24.77	2.00	0.00	1.00	0.00	54.54	21.37	2.00	0.00	1.00	0.00
54.62	16.52	2.00	0.00	1.00	0.00	54.68	18.77	2.00	0.00	1.00	0.00
54.73	17.78	2.00	0.00	1.00	0.00	54.80	18.12	2.00	0.00	1.00	0.00
54.90	107.82	0.24	2.97	1.00	0.04	54.98	135.79	0.37	2.32	1.00	0.02
55.03	134.09	0.36	2.35	1.00	0.01	55.09	136.02	2.00	0.00	1.00	0.00
55.16	145.38	2.00	0.00	1.00	0.00	55.24	154.35	2.00	0.00	1.00	0.00
55.37	144.98	2.00	0.00	1.00	0.00	55.43	134.16	2.00	0.00	1.00	0.00
55.51	120.02	2.00	0.00	1.00	0.00	55.57	42.21	2.00	0.00	1.00	0.00
55.64	34.33	2.00	0.00	1.00	0.00	55.71	29.07	2.00	0.00	1.00	0.00
55.78	24.68	2.00	0.00	1.00	0.00	55.86	21.52	2.00	0.00	1.00	0.00
55.91	18.75	2.00	0.00	1.00	0.00	56.00	16.84	2.00	0.00	1.00	0.00
56.07	18.30	2.00	0.00	1.00	0.00	56.14	17.87	2.00	0.00	1.00	0.00
56.18	18.00	2.00	0.00	1.00	0.00	56.28	19.88	2.00	0.00	1.00	0.00
56.33	21.91	2.00	0.00	1.00	0.00	56.40	24.01	2.00	0.00	1.00	0.00
56.50	28.11	2.00	0.00	1.00	0.00	56.55	27.74	2.00	0.00	1.00	0.00
56.60	26.03	2.00	0.00	1.00	0.00	56.67	24.40	2.00	0.00	1.00	0.00
56.72	24.52	2.00	0.00	1.00	0.00	56.77	26.35	2.00	0.00	1.00	0.00
56.89	36.25	2.00	0.00	1.00	0.00	56.94	104.70	2.00	0.00	1.00	0.00
56.99	109.27	2.00	0.00	1.00	0.00	57.06	110.80	2.00	0.00	1.00	0.00
57.12	112.22	2.00	0.00	1.00	0.00	57.19	112.35	2.00	0.00	1.00	0.00
57.25	110.10	2.00	0.00	1.00	0.00	57.32	107.61	2.00	0.00	1.00	0.00
57.38	103.34	2.00	0.00	1.00	0.00	57.43	37.03	2.00	0.00	1.00	0.00
57.51	33.27	2.00	0.00	1.00	0.00	57.58	31.16	2.00	0.00	1.00	0.00
57.65	30.97	2.00	0.00	1.00	0.00	57.70	92.55	0.21	3.47	1.00	0.02
57.78	94.45	0.21	3.40	1.00	0.03	57.84	33.28	2.00	0.00	1.00	0.00
57.91	30.29	2.00	0.00	1.00	0.00	57.97	25.90	2.00	0.00	1.00	0.00
58.05	21.56	2.00	0.00	1.00	0.00	58.09	18.58	2.00	0.00	1.00	0.00
58.17	16.77	2.00	0.00	1.00	0.00	58.22	15.33	2.00	0.00	1.00	0.00
58.31	13.81	2.00	0.00	1.00	0.00	58.35	12.87	2.00	0.00	1.00	0.00
58.44	12.72	2.00	0.00	1.00	0.00	58.58	16.85	2.00	0.00	1.00	0.00
58.62	24.82	2.00	0.00	1.00	0.00	58.70	31.12	2.00	0.00	1.00	0.00
58.76	32.05	2.00	0.00	1.00	0.00	58.82	28.94	2.00	0.00	1.00	0.00
58.89	24.11	2.00	0.00	1.00	0.00	58.95	19.40	2.00	0.00	1.00	0.00
58.95	16.45	2.00	0.00	1.00	0.00	59.01	17.40	2.00	0.00	1.00	0.00
59.07	15.14	2.00	0.00	1.00	0.00	59.13	14.12	2.00	0.00	1.00	0.00
59.19	13.24	2.00	0.00	1.00	0.00	59.29	12.15	2.00	0.00	1.00	0.00
59.34	11.88	2.00	0.00	1.00	0.00	59.43	11.80	2.00	0.00	1.00	0.00
59.49	12.00	2.00	0.00	1.00	0.00	59.59	13.60	2.00	0.00	1.00	0.00
59.65	13.86	2.00	0.00	1.00	0.00	59.69	13.52	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
59.74	13.44	2.00	0.00	1.00	0.00	59.81	13.97	2.00	0.00	1.00	0.00
59.91	21.16	2.00	0.00	1.00	0.00	59.96	29.03	2.00	0.00	1.00	0.00
60.02	36.71	2.00	0.00	1.00	0.00	60.14	109.64	2.00	0.00	1.00	0.00
60.19	115.47	2.00	0.00	1.00	0.00	60.25	122.94	2.00	0.00	1.00	0.00
60.31	130.85	2.00	0.00	1.00	0.00	60.36	135.03	2.00	0.00	1.00	0.00
60.41	136.84	2.00	0.00	1.00	0.00	60.48	139.46	2.00	0.00	1.00	0.00
60.53	138.23	2.00	0.00	1.00	0.00	60.58	134.85	2.00	0.00	1.00	0.00
60.64	130.79	2.00	0.00	1.00	0.00	60.76	122.05	2.00	0.00	1.00	0.00
60.80	118.12	2.00	0.00	1.00	0.00	60.85	49.23	2.00	0.00	1.00	0.00
60.93	47.54	2.00	0.00	1.00	0.00	60.98	48.75	2.00	0.00	1.00	0.00
61.09	137.69	2.00	0.00	1.00	0.00	61.15	156.50	2.00	0.00	1.00	0.00
61.20	170.37	2.00	0.00	1.00	0.00	61.25	176.64	2.00	0.00	1.00	0.00
61.37	178.70	1.32	0.39	1.00	0.01	61.42	176.07	1.19	0.52	1.00	0.00
61.47	172.68	1.04	0.71	1.00	0.00	61.53	170.33	0.96	0.85	1.00	0.01
61.59	164.01	2.00	0.00	1.00	0.00	61.64	159.17	2.00	0.00	1.00	0.00
61.70	154.50	2.00	0.00	1.00	0.00	61.76	149.67	2.00	0.00	1.00	0.00
61.82	144.58	2.00	0.00	1.00	0.00	61.88	127.41	2.00	0.00	1.00	0.00
61.95	127.07	0.33	2.50	1.00	0.02	62.04	117.02	0.28	2.73	1.00	0.03
62.12	42.95	2.00	0.00	1.00	0.00	62.14	39.38	2.00	0.00	1.00	0.00
62.23	33.68	2.00	0.00	1.00	0.00	62.30	29.15	2.00	0.00	1.00	0.00
62.34	26.93	2.00	0.00	1.00	0.00	62.43	24.38	2.00	0.00	1.00	0.00
62.48	23.69	2.00	0.00	1.00	0.00	62.56	22.45	2.00	0.00	1.00	0.00
62.61	21.70	2.00	0.00	1.00	0.00	62.70	20.41	2.00	0.00	1.00	0.00
62.74	21.95	2.00	0.00	1.00	0.00	62.85	36.49	2.00	0.00	1.00	0.00
62.96	125.00	2.00	0.00	1.00	0.00	63.01	136.17	2.00	0.00	1.00	0.00
63.10	136.35	2.00	0.00	1.00	0.00	63.15	127.49	2.00	0.00	1.00	0.00
63.20	122.64	2.00	0.00	1.00	0.00	63.27	131.56	2.00	0.00	1.00	0.00
63.36	148.60	2.00	0.00	1.00	0.00	63.45	156.46	0.62	1.95	1.00	0.02
63.50	158.71	0.66	1.80	1.00	0.01	63.61	160.66	0.70	1.63	1.00	0.02
63.76	162.00	0.73	1.49	1.00	0.03	63.81	164.95	0.80	1.23	1.00	0.01
63.86	167.24	0.87	1.05	1.00	0.01	63.92	167.38	0.87	1.04	1.00	0.01
63.98	165.51	0.82	1.18	1.00	0.01	64.02	163.00	0.76	1.39	1.00	0.01
64.07	161.43	0.72	1.55	1.00	0.01	64.12	160.88	0.71	1.60	1.00	0.01
64.18	160.48	0.70	1.64	1.00	0.01	64.24	160.56	0.70	1.63	1.00	0.01
64.34	160.74	0.71	1.62	1.00	0.02	64.43	166.38	0.84	1.11	1.00	0.01
64.48	166.57	0.85	1.09	1.00	0.01	64.55	166.65	0.85	1.09	1.00	0.01
64.60	167.56	0.88	1.02	1.00	0.01	64.69	171.83	1.02	0.74	1.00	0.01
64.74	174.50	1.13	0.59	1.00	0.00	64.79	177.89	1.29	0.42	1.00	0.00
64.89	166.21	2.00	0.00	1.00	0.00	64.93	168.31	2.00	0.00	1.00	0.00
64.98	170.33	2.00	0.00	1.00	0.00	65.07	174.45	2.00	0.00	1.00	0.00
65.14	175.78	2.00	0.00	1.00	0.00	65.19	177.05	2.00	0.00	1.00	0.00

Total estimated settlement: 4.56

Abbreviations

$Q_{tn,cs}$:	Equivalent clean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

APPENDIX F

WELL PERMIT DOCUMENTS

J. Anzora

APPLICATION FOR WELL/EXPLORATORY BORING PERMIT

ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH DIVISION
1241 E. DYER ROAD, SUITE 120
SANTA ANA, CA 92705-5611
EHOCWELLS@OCHCA.COM
714-433-6000

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WELL PERMIT NO. 21-12-30

Permit expires on 12.30.2022

For multiple cities, addresses, or locations, complete a separate permit application. **PROPOSED START DATE**

CITY: Cypress

WELL LOCATION / STREET INTERSECTION: 5665 and 5757 Plaza Drive / off of Katella and Valley View

LONGTITUDE (DECIMAL)

LATITUDE (DECIMAL)

OVERSIGHT AGENCY (if applicable)

EMAIL PERMIT TO: ehaaker@g3soilworks.com

■ Consultant ☐ Driller ☐ Well Owner

SERVICE ■ **Construction** ☐ **Destruction (Fee is per well)**

WATER WELLS (complete one permit application for per water well)
☐ Public Domestic/Municipal ☐ Private Domestic & No. of connections ___ ☐ Irrigation

☐ CATHODIC WELL (complete one permit application for per cathodic well)

NON-PRODUCTION WELLS (fee is the same as monitoring well construction) Total No. of Wells 5

■ Monitoring 5 ☐ Air Sparge ___ ☐ Soil Vapor Extraction ___ ☐ Electrical Grounding Well ___

☐ Water Extraction ___ ☐ Inclinometer ___ ☐ Injection/Recharge ___ ☐ Geothermal Heat Exchange ___

☐ Piezometer ___ ☐ Horizontal ___ ☐ Soil Vapor Probes ___ ☐ Other ___

EXPLORATORY BORINGS
(complete separate permits for probe survey and soil boring. Also complete the WELL & EXPLORATORY BORING DESTRUCTION section on the next page.)

☐ Probe Survey (CPT or Direct Push Only) ___
☐ Probe Survey Soil Vapor Probes (Direct Push) ___
☐ Soil Boring (hollow stem auger, mud rotary, sonic, or bucket auger, etc...) ___

FOR ACCOUNTING USE ONLY

HSO NO 417390 CHECK NO. 3901

DATE 1/13/22 AMOUNT $1005-

INTL LM

APPROVAL BY OTHER AGENCIES

JURISDICTION

REMARKS

AUTHORIZED SIGNATURE DATE

FOR OFFICE USE ONLY
NO PERMIT IS DEEMED COMPLETED UNTIL THE FOLLOWING ARE MARKED AND SIGNED OFF:
☐ NOTIFICATION OF COMPLETION RECEIVED
☐ FINAL INSPECTION
☐ ALL REQUIRED DOCUMENTS RECEIVED

PRINT NAME PHONE NUMBER

DISPOSITION OF PERMIT (FOR OFFICE USE ONLY)

☒ APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:

NOTIFY THIS AGENCY AT LEAST 48 HOURS:

☒ PRIOR TO ANY CHANGES OF THE WORK PLAN.
☐ PRIOR TO SEALING THE ANNULAR SPACE.
☐ PRIOR TO FILLING OF CONDUCTOR CASING.

☒ SUBMIT TO THIS AGENCY, WITHIN 30 DAYS OF COMPLETION OF WORK, A COPY OF THE WELL COMPLETION REPORT(S) AND/OR DRILLING LOG(S). PLEASE REFERENCE PERMIT NO.

☒ SECURE ALL WELLS TO PREVENT TAMPERING.

☒ NOTIFY WHEN ALL WORK IS COMPLETED AND INCLUDE THE DEPTH TO FIRST ENCOUNTERED WATER, PHOTO DOCUMENTATION, AND/OR COPIES OF CEMENT TICKETS/CALCULATIONS.

☐ WORK COMPLETED PRIOR TO SUBMITTING PERMIT APPLICATION TO THIS AGENCY

☐ OTHER

Juan Anzora 12.29.2021
PERMIT ISSUED BY DATE

Juan Anzora 7144736287
PRINT NAME PHONE NUMBER

WHEN SIGNED BY AN ORANGE COUNTY HEALTH CARE AGENCY REPRESENTATIVE, THIS APPLICATION IS A VALID PERMIT.
(R10/21)

I hereby agree to comply with all applicable requirements of the Health Care Agency and with all ordinances and laws of the County of Orange and of the State of California pertaining to well construction, reconstruction and destruction, including the requirements to maintain the integrity of all significant confining zones. A violation of the California Well Standards and the local Well Ordinance is likely to constitute a misdemeanor (County Well Ordinance Sec. 4-5-31).

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WELL OWNER

WELL OWNER'S NAME	EMAIL ADDRESS
GLC Cypress LLC	blair.dahl@goodman.com

WELL OWNER'S ADDRESS / CITY / STATE/ ZIP CODE	TELEPHONE NUMBER
18201 Von Karman Avenue, Suite 1170, Irvine, CA 92612	(949) 407-0118

WELL OWNER'S SIGNATURE	DATE
Alan Cockburn Digitally signed by Alan Cockburn Date: 2021.12.23 17:38:22 -08'00'	

CONSULTING FIRM

NAME OF CONSULTING FIRM	BUSINESS ADDRESS/CITY/STATE/ZIP CODE	PROFESSIONAL LICENSE NUMBER
G3SoiWorks, Inc.	350 Fischer Avenue, Costa Mesa, CA 92626	PG 9409, CEG 2708

CONSULTANT'S SIGNATURE	DATE	EMAIL ADDRESS
Erik Haaker Digitally signed by Erik Haaker Date: 2021.12.23 14:22:54 -08'00'		ehaaker@g3soilworks.com

DRILLING CONTRACTOR

NAME OF DRILLER	EMAIL ADDRESS	C-57 LICENSE NUMBER
J & H Drilling Company	steve@mrdrillco.com	740854

DRILLER'S SIGNATURE	DATE
Steve Molera	12/29/2021

REQUIRED DOCUMENTS

WATER & STORMWATER DRY INJECTION WELL CONSTRUCTION

☐ An approval from the Division of Drinking Water (DDW) for public or municipal water wells.

☐ A cross-section well diagram detailing total depth, borehole diameter, depth and thickness of the sanitary seal(s), type(s) of casing(s), and length(s) of screen(s) / slotting. A top view is required for nested wells that demonstrate the radial thickness separation.

☐ Indicate the number of water aquifers the well will be screened through.

☐ A site map using a 250-foot radius from the proposed water well location that includes locations and distances to:

- All existing, active, inactive, and/or abandoned water wells.
- All existing, abandoned, and/or proposed sewer lines, recycled water lines, and storm drain lines.
- All active and/or abandoned leach fields, cesspits, and septic tanks.
- All animal enclosures (e.g., stables, coops, kennels, etc.).
- All water courses and/or bodies of water, including, but not limited to: rivers, creeks, ponds, retention ponds, and/or swimming pools.
- All other underground storage tanks and open (regulated) remediation sites.
- All nearby structures (e.g., commercial and residential buildings, houses, storage sheds) sanitary hazards and their locations.

NON-PRODUCTION WELL CONSTRUCTION

■ Written work plan. For regulated sites, an approved work plan by the overseeing regulatory agency must be included for the installation of any type of nested well.

■ Site map(s) showing the locations of the proposed wells (no topographical maps).

■ A cross-section well diagram detailing total depth, borehole diameter, depth and thickness of the sanitary seal(s), type(s) of casing(s), and length(s) of screen(s) / slotting. A top view is required for nested wells that demonstrates a 2-inch radial thickness separation between casings and casing and wall of the borehole.

WELL & EXPLORATORY BORING DESTRUCTION

☐ Written work plan. For regulated sites, an approval of the work plan by the overseeing regulatory agency must be included.

☐ Site map(s) showing the locations of the wells to be destroyed (no topographical maps).

☐ Type and amount of sealant (show calculations for water wells):

Total depth _____feet Borehole diameter _____inches Sealing material Select One of the Approved Materials

☐ Method of destruction:

☐ Pressure grout / removal of top 5 feet casing / removal of well boxes ☐ Overdrill ☐ Excavation

☐ Other

(R10/21)

Notes: - Not to scale;
- Refer to notes for depths / dimensions;
- For illustrative purposes only
- Refer to Work Plan for more information.

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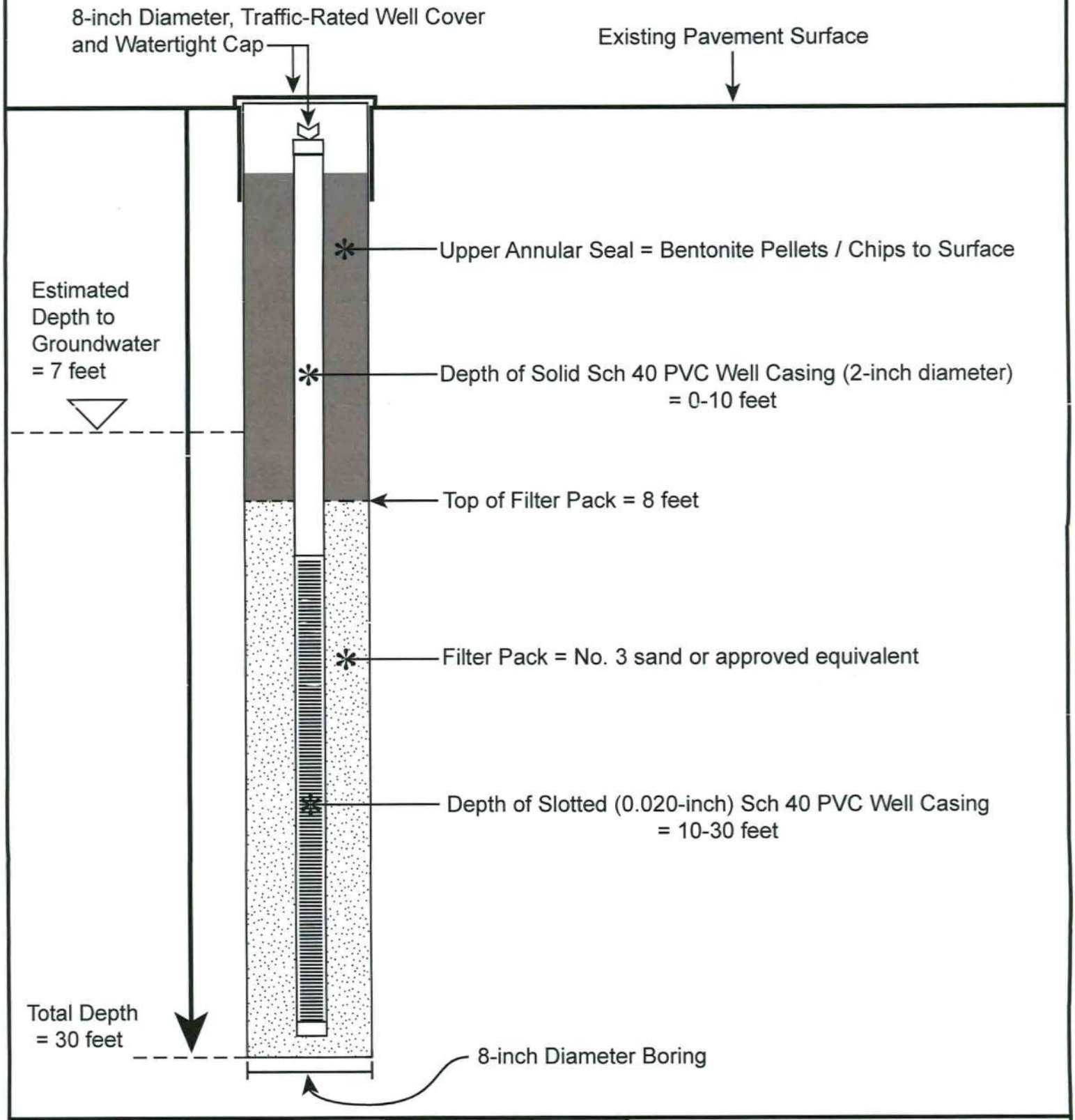

Well Construction Diagram (B-1 & B-5)	Project No. 1-1209	Dec. 2021	G3SoilWorks
5665-5757 Plaza Drive	Cypress, CA	Figure 2	

350 Fischer Ave. Front
Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

Notes: - Not to scale;
- Refer to notes for depths / dimensions;
- For illustrative purposes only
- Refer to Work Plan for more information.

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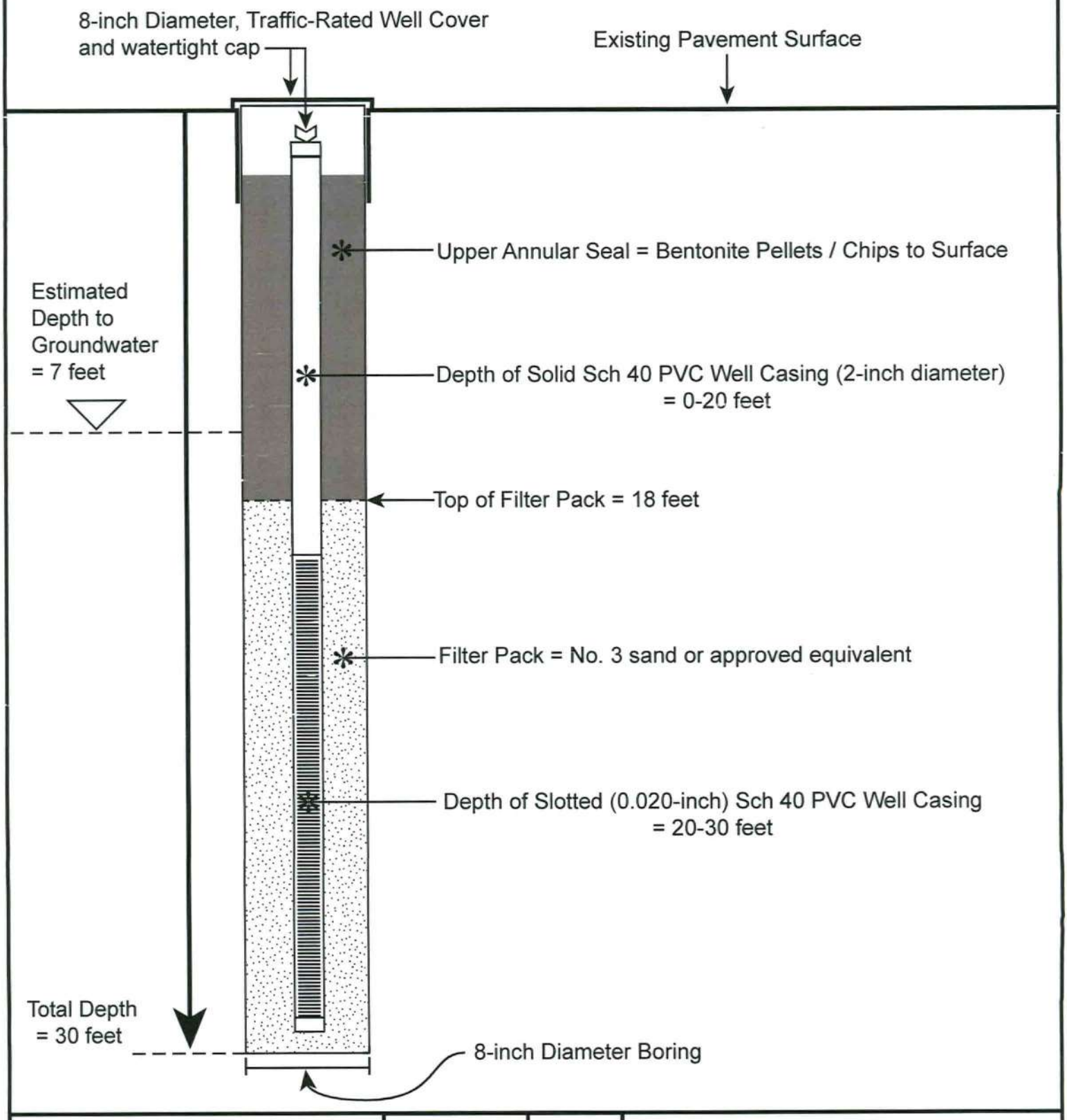

Well Construction Diagram (B-2 & B-4)	Project No. 1-1209	Dec. 2021	G3SoilWorks
5665-5757 Plaza Drive	Cypress, CA	Figure 3	

350 Fischer Ave. Front
Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

Notes: - Not to scale;
- Refer to notes for depths / dimensions;
- For illustrative purposes only
- Refer to Work Plan for more information.

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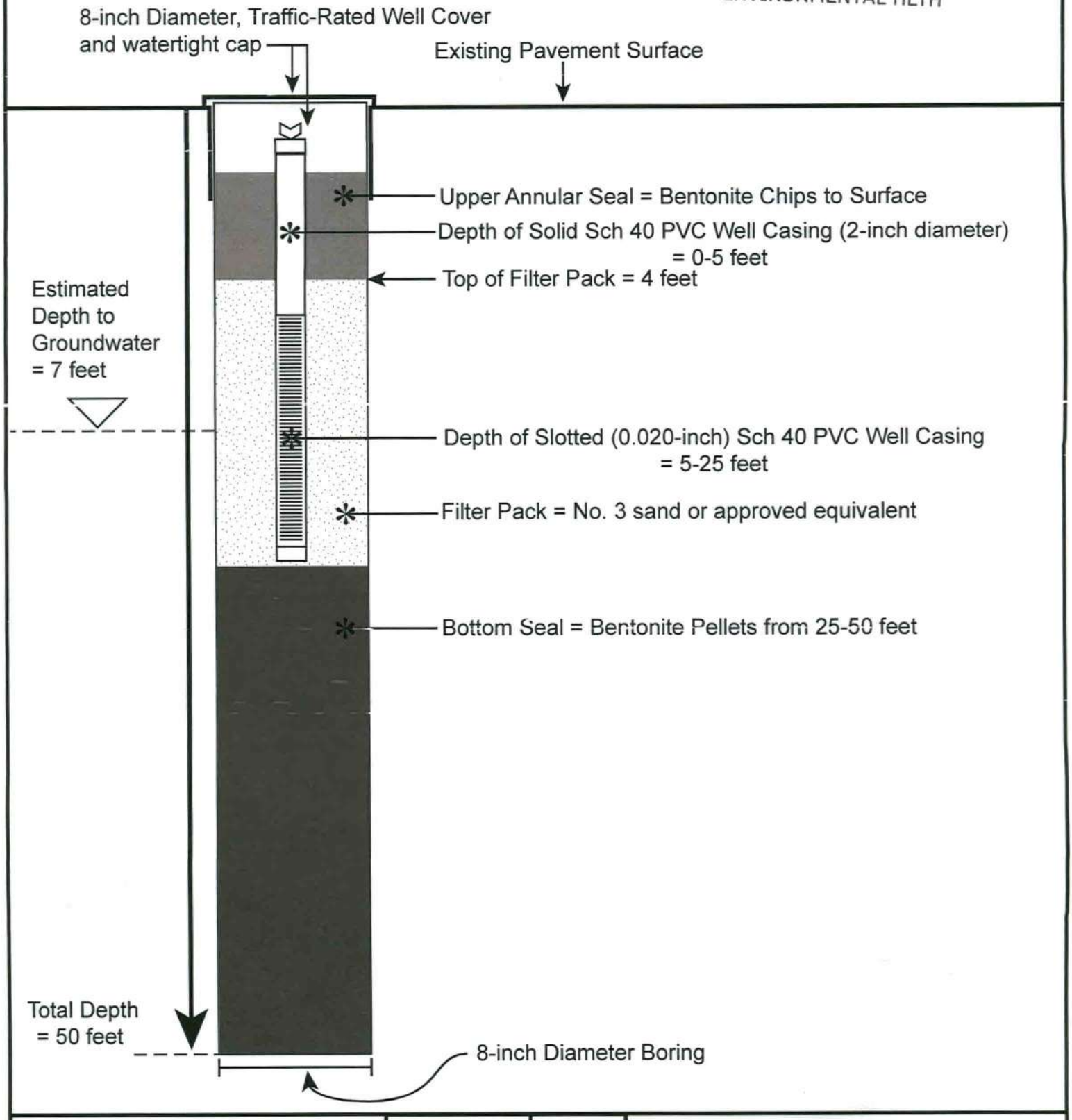

Well Construction Diagram (B-3)	Project No. 1-1209	Dec. 2021	G3SoilWorks 350 Fischer Ave. Front Costa Mesa, CA 92626 Phone: (714) 668 5600 www.G3SoilWorks.com
5665-5757 Plaza Drive	Cypress, CA	Figure 4	

Well Location Map		Proj. No. 1-1209	Dec. 2021
5665 and 5757 Plaza Drive	Cypress, CA		Figure 1

G3 SoilWorks
350 Fischer Ave. Front
Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

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G3SoilWorks
GEOLOGY · GEOTECH · GROUNDWATER

Orange County Health Care Agency
Environmental Health Division
1241 East Dyer Road, Suite 120
Santa Ana, CA 92705

December 27, 2021
Project No. 1-1209

Attention: Mr. Juan Anzora

Subject: **Work Plan for Well Construction Permit Application**
Geotechnical Investigation for
Proposed Commercial / Industrial Development
5665 and 5757 Plaza Drive
Cypress, California

References: Orange County Health Care Agency – Environmental Health Division
Application for Well Destruction Permit. dated December 23, 2021.

Dear Mr. Anzora,

G3SoilWorks, Inc. (G3), is providing this Work Plan for the construction of five (5) temporary monitoring wells to be located at the subject address. The proposed Work Plan and supporting information presented herein are provided as an attachment to the referenced Orange County Health Care Agency – Environmental Health Division (OCHCA-EHD) Application for Well Construction Permit dated December 23, 2021.

PURPOSE / INTENT

The purpose of our work, in accordance with this Work Plan, will be to construct five (5) temporary monitoring wells at the subject property for the purposes of monitoring groundwater elevations as part of our geotechnical investigation for the proposed commercial / industrial development. The wells will be constructed in accordance with County requirements (i.e., Bulletin for Annular Sealing Material, Bulletin for Destruction of Monitoring Wells and Soil Borings, California Well Standards, etc.) and California Well Standards.

PROJECT DESCRIPTION / BACKGROUND

As shown on Figure 1 (attached), the subject site is located northerly adjacent to Katella Avenue and Plaza Drive, between Walker Street and Valley View Street, in the City of Cypress. The property is generally flat-lying to very gently sloping and is occupied by paved parking areas at the proposed well locations. A total of five (5) temporary monitoring wells are to be constructed as part of G3's geotechnical investigation for the subject proposed commercial / industrial development. These wells are to be constructed in accordance with the attached well construction diagrams (Figures 2-4) and will range in depth from 25 to 30 feet below existing ground surface. One of the wells (B-3) will be drilled to 50 feet for the purposes of geotechnical sampling and testing, then sealed and set to a depth of 25 feet as shown on Figure 4.

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ENVIRONMENTAL HLTH

SOILS AND GROUNDWATER

Based on review of available geologic mapping and subsurface information, the site is underlain by Quaternary alluvium associated with the ancestral Santa Ana River. Soils include anastomosed / interfingered and interbedded sequences of poorly-graded sand, silty sand, sandy silt, and silty clay. Shallow groundwater is anticipated at depths of approximately 7 feet below ground surface and is understood to be "first water" of non-beneficial use.

METHODOLOGY / WORK PLAN

The proposed temporary monitoring wells will be located within the limits of the property as shown Figure 1 (attached). The wells will be constructed by a C-57 licensed drilling contractor according to the attached well construction diagrams (Figures 2-4), with oversight and documentation by G3. The wells will remain in place for monitoring purposes until construction of the proposed commercial / industrial development begins. At some point during the construction phase, a well destruction permit application will be submitted for County review and approval, and the wells will be destroyed by a licensed C-57 drilling contractor in accordance with the approved well destruction permit.

DISCUSSION / CONCLUSION

It is our opinion that the above work plan meets the intent of California Well Standards and conforms with applicable County requirements for well construction. Our work will be performed in accordance with the approved well construction permit and work plan proposed herein.

CLOSURE

We thank you for your assistance and look forward to working with you in the future. If you have any questions or require additional information, please do not hesitate to contact the undersigned.

Respectfully submitted,

G3SoilWorks, Inc.

By: _____
Erik C. Haaker, P.G., C.E.G.
Senior Engineering Geologist

Attachments:
Figure 1 – Well Location Map
Figure 2 – Well Construction Diagram (B-1 & B-5)
Figure 3 – Well Construction Diagram (B-2 & B-4)
Figure 4 – Well Construction Diagram (B-3)
OCHCA-EHD Application for Well Construction Permit

Distribution: Addressee (PDF electronic mail)

RECEIVED HCA

JAN 12 2022

ENVIRONMENTAL HLTH

ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH DIVISION
HEALTH SERVICE ORDER 417390

Wells

Date 1/13/22 Initials VL

Client Name GLC Cypress LLC

Address 4665 & 5757 Plaza Dr. off Katella & Valley View

Cypress Ca. Ph#

Paid By G3 Soil Works Inc.

Address 350 Fischer Ave-Front

Costa Mesa Ca. 92626 Ph# (714) 668-5600

Please circle the respective service code(s)

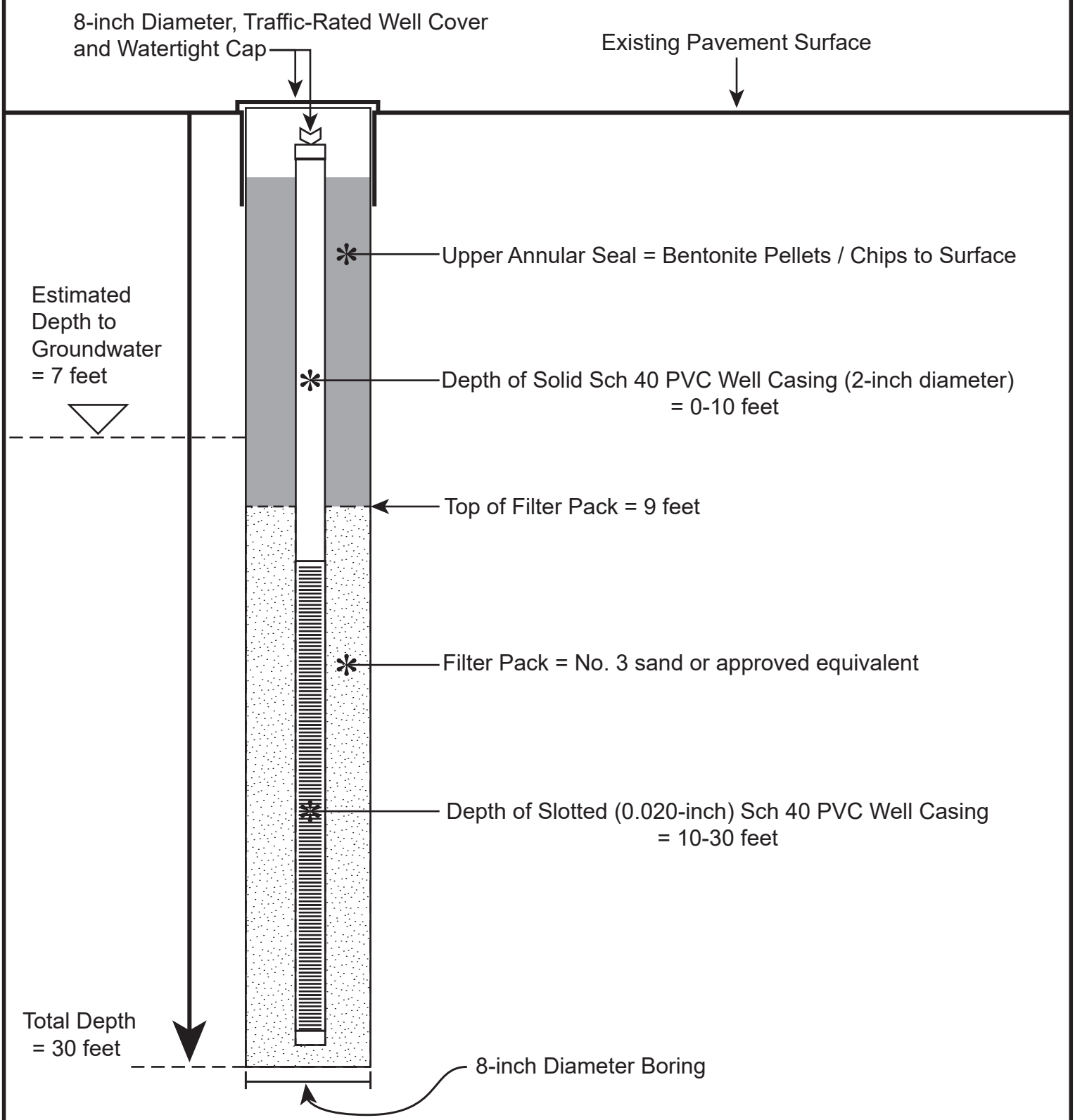
01	FPS/HSF (Acct/Bat#)	$
02	FPS Plan Check/Foods (PC#)	$
03	FPS Plan Check/Pools (PC#)	$
04	Food Vehicles Cat	$
	Decal No(s)	
05	FPS/Court Restitution/Judgment	$
	Name	
	Case#	
06	Hotels/Motels (Acct/Bat#)	$
07	Massage Parlor (Acct/Bat#)	$
08	Noise	$
09	Liquid Waste Hauler	$
10	Farm Labor Camp Registration	$
11	Aboveground Petroleum Storage Act	$
12	Hazardous Waste (Acct/Bat#)	$
13	CUPA Administrative Enforcement Orders	$
14	Hazardous Waste Restitution/Judgment	$
	Name	
	Case#	
15	Hazardous Waste Clean-up	$
16	Medical Waste/Body Art)	$
17	UST/HSF (Acct/Bat#)	$
18	UST Plan Check (PC#)	$
19	UST State Surcharge	$
20	UST Restitution/Judgment	$
	Name	
	Case#	
(21)	Wells (Const 5 Recon Destr)	$ 1009-
	Water Cath Init. Monit.)	
	Add. Monit. #Wells	
	Driller	
	Consultant	
22	Backflow/Cross Connection	$
	Client(s)	
23	Small Water Systems	$
24	CUPA - Base Fee	$
25	CUPA - CalArp	$
26	FOG- OC Sanitation District	$
27	Tierred Permitting	$
__	**OTHER**	$
__	**OTHER**	$
__	**OTHER**	$
__	**OTHER**	$ 1009-

PAID BY CHECK NO: 3901

APPENDIX G

AS-BUILT WELL DIAGRAMS

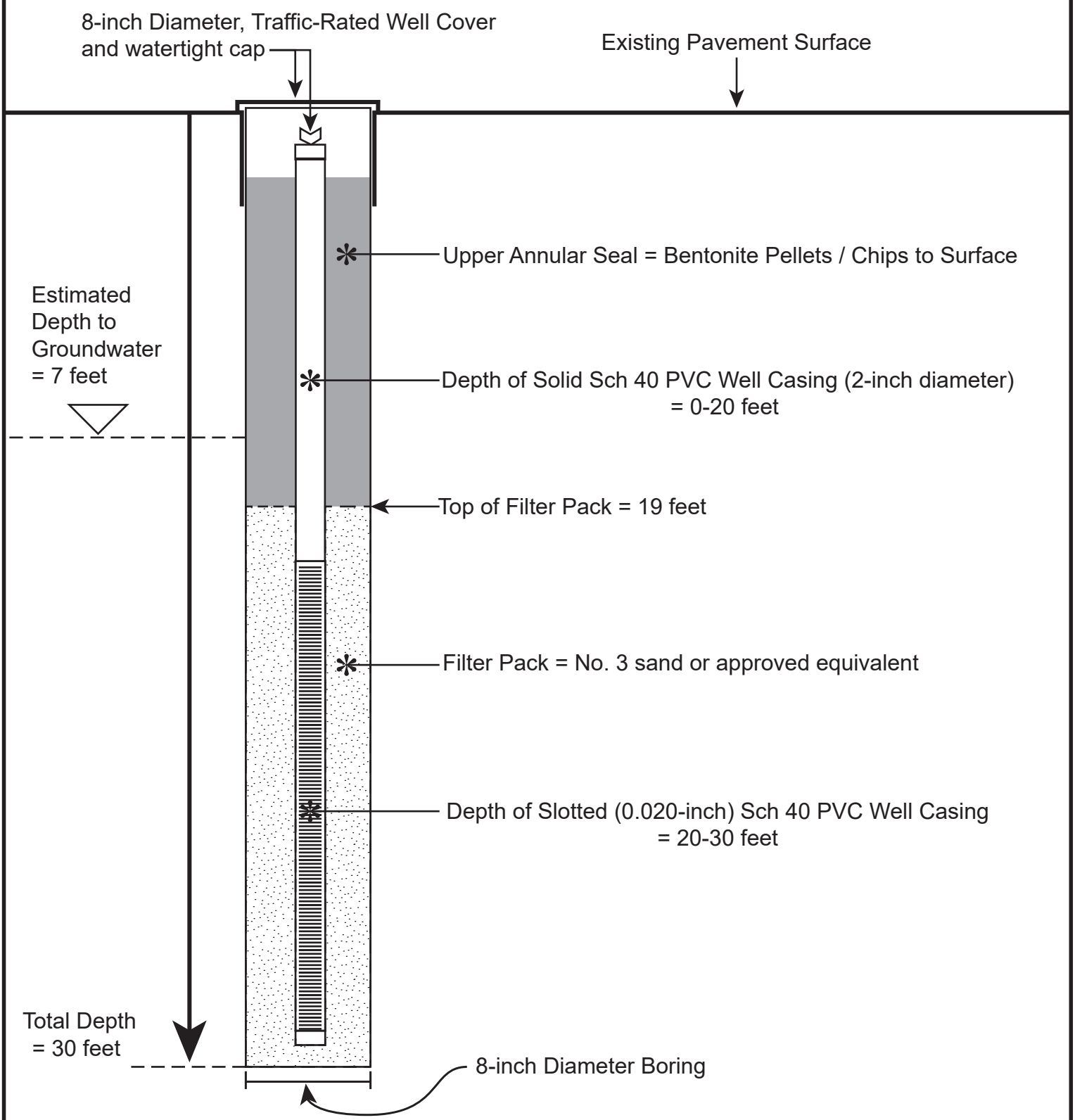
Notes: - Not to scale;
- Refer to notes for depths / dimensions;
- For illustrative purposes only
- Refer to Work Plan for more information.



As-Built Well Diagram (B-1 & B-5)	Project No. 1-1209	May 2022	G3SoilWorks
5665-5757 Plaza Drive	Cypress, CA	Detail 1	

350 Fischer Ave. Front
Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

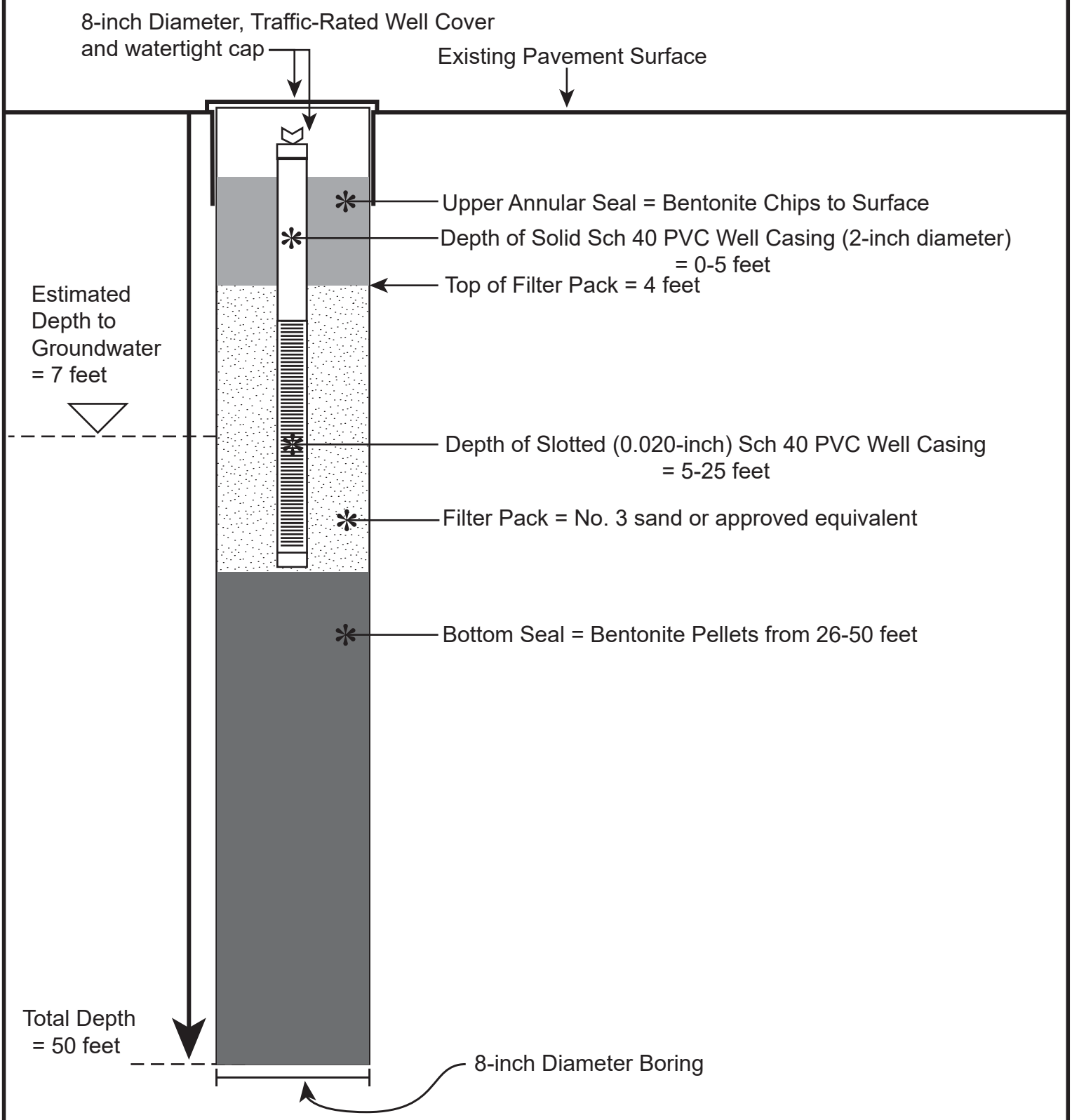
Notes: - Not to scale;
- Refer to notes for depths / dimensions;
- For illustrative purposes only
- Refer to Work Plan for more information.



As-Built Well Diagram (B-2 & B-4)	Project No. 1-1209	May 2022	G3SoilWorks
5665-5757 Plaza Drive	Cypress, CA	Detail 2	

350 Fischer Ave. Front
Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

Notes: - Not to scale;
- Refer to notes for depths / dimensions;
- For illustrative purposes only
- Refer to Work Plan for more information.



As-Built Well Diagram (B-3)	Project No. 1-1209	Apr. 2022	G3SoilWorks
5665-5757 Plaza Drive	Cypress, CA	Detail 3	

350 Fischer Ave. Front
Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

APPENDIX H

ASCE 7-16 SEISMIC DESIGN CRITERIA

Hazards by Location

Search Information

Address:	5757 Plaza Dr, Cypress, CA 90630, USA
Coordinates:	33.8054078, -118.0321031
Elevation:	35 ft
Timestamp:	2022-05-04T17:12:53.366Z
Hazard Type:	Seismic
Reference Document:	ASCE7-16
Risk Category:	II
Site Class:	D-default

Basic Parameters

Name	Value	Description
S_S	1.451	MCE_R ground motion (period=0.2s)
S_1	0.515	MCE_R ground motion (period=1.0s)
S_{MS}	1.742	Site-modified spectral acceleration value
S_{M1}	* null	Site-modified spectral acceleration value
S_{DS}	1.161	Numeric seismic design value at 0.2s SA
S_{D1}	* null	Numeric seismic design value at 1.0s SA

* See Section 11.4.8

Additional Information

Name	Value	Description
SDC	* null	Seismic design category
F_a	1.2	Site amplification factor at 0.2s
F_v	* null	Site amplification factor at 1.0s
CR_S	0.911	Coefficient of risk (0.2s)
CR_1	0.914	Coefficient of risk (1.0s)
PGA	0.622	MCE_G peak ground acceleration
F_{PGA}	1.2	Site amplification factor at PGA
PGA_M	0.746	Site modified peak ground acceleration

T_L	8	Long-period transition period (s)
SsRT	1.451	Probabilistic risk-targeted ground motion (0.2s)
SsUH	1.593	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
SsD	2.465	Factored deterministic acceleration value (0.2s)
S1RT	0.515	Probabilistic risk-targeted ground motion (1.0s)
S1UH	0.563	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
S1D	0.836	Factored deterministic acceleration value (1.0s)
PGAd	0.999	Factored deterministic acceleration value (PGA)

* See Section 11.4.8

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are provided by the U.S. Geological Survey Seismic Design Web Services.

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Per ASCE 7-16 section 11.4.8, a site response analysis is required for structures on Site Class F unless any of the exceptions listed in section 20.3.1 are applicable. Provided that the proposed structure has a fundamental period of vibration of equal to or less than 0.5s, the site class and corresponding values can be determined by the procedures outlined in section 11 in lieu of performing a site response analysis. The values for S_{M1}, S_{D1}, F_v, and SDC have been tabulated in accordance with ASCE 7-16 procedures and are included in the table below. The applicability of the exemption and the parameters provided below should be verified by the Structural Engineer for conformance to local laws and ordinances.

Parameter	Value	Description
S_{M1}	0.919	Site-modified spectral acceleration value
S_{D1}	0.613	Numeric seismic design value at 1.0s SA
F_v	1.785	Site amplification factor at 1.0s
SDC	D	Seismic design category

APPENDIX I

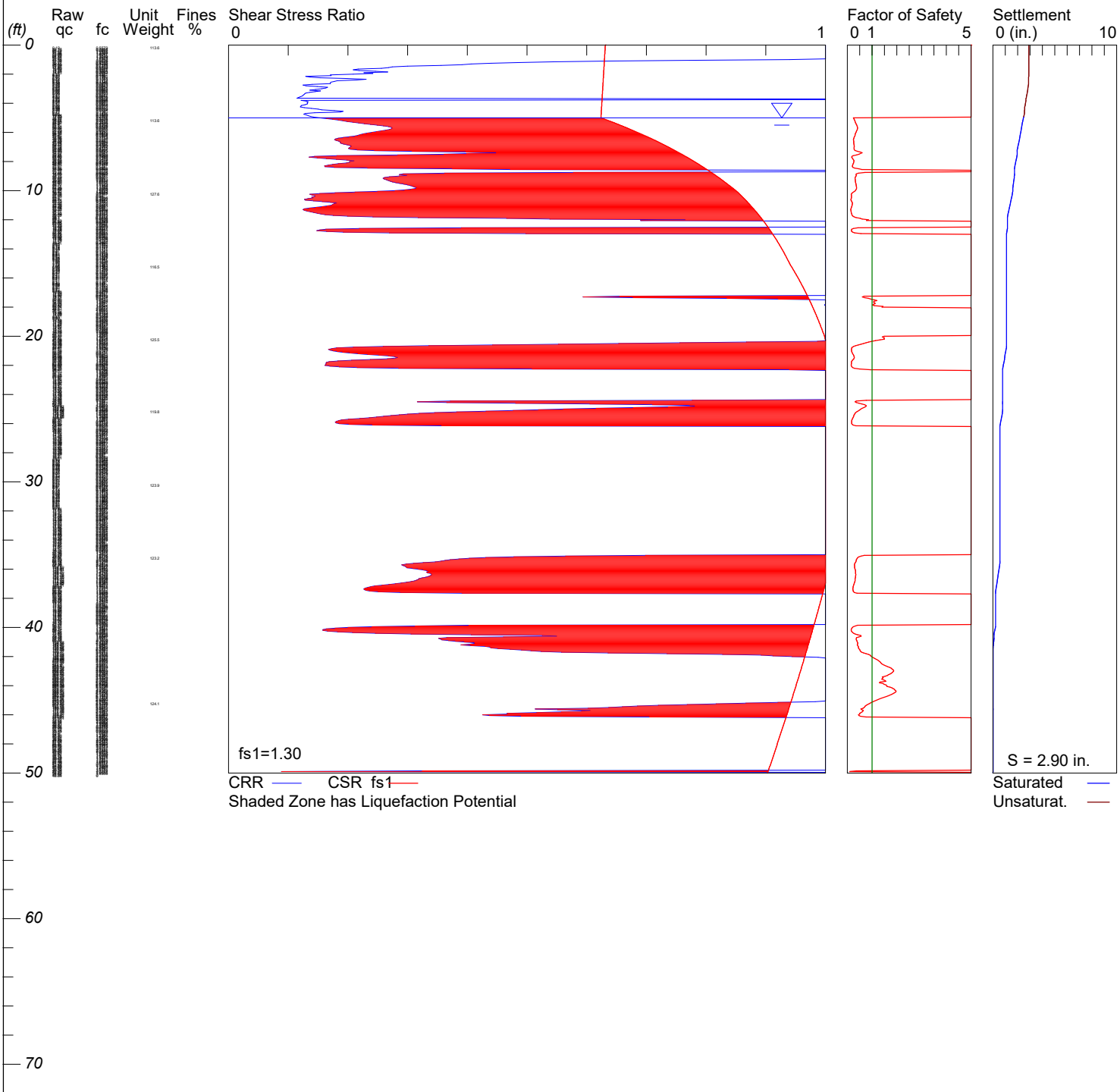
LIQUEFACTION ANALYSES

LIQUEFACTION ANALYSIS

Cypress

Hole No.=CPT-1 Water Depth=5 ft

Magnitude=7.5
Acceleration=.747g



LiquefyPro CivilTech Software USA www.civiltech.com

****
LIQUEFACTION ANALYSIS SUMMARY

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Font: Courier New, Regular, Size 8 is recommended for this report.
Licensed to , 5/4/2022 12:33:40 PM

Input File Name: S:\PROJECTS\1000s GEOTECH PROJECTS\1-1209 Goodman Cypress\Calcs\Liquefaction\KYCPT1.liq
Title: Cypress
Subtitle: CPT-1

Surface Elev.=
Hole No.=CPT-1
Depth of Hole= 50.00 ft
Water Table during Earthquake= 5.00 ft
Water Table during In-Situ Testing= 7.00 ft
Max. Acceleration= 0.75 g
Earthquake Magnitude= 7.50

Input Data:
Surface Elev.=
Hole No.=CPT-1
Depth of Hole=50.00 ft
Water Table during Earthquake= 5.00 ft
Water Table during In-Situ Testing= 7.00 ft
Max. Acceleration=0.75 g
Earthquake Magnitude=7.50
No-Liquefiable Soils: CL, OL are Non-Liq. Soil

1. CPT Calculation Method: Modify Robertson*
2. Settlement Analysis Method: Ishihara / Yoshimine
3. Fines Correction for Liquefaction: Stark/Olson et al.*
4. Fine Correction for Settlement: During Liquefaction*
5. Settlement Calculation in: All zones*
9. User request factor of safety (apply to CSR) , User= 1.3
   Plot one CSR curve (fs1=User)
10. Use Curve Smoothing: Yes*
* Recommended Options

In-Situ Test Data:

Depth	qc	fs	Rf	gamma	Fines	D50
ft	atm	atm	pcf	%	mm	

0.00	0.19	0.56	293.63	113.60	0.00	0.50
0.07	55.17	0.76	1.38	113.60	0.00	0.50
0.15	84.29	0.97	1.15	113.60	0.00	0.50
0.20	85.12	1.08	1.27	113.60	0.00	0.50
0.28	81.97	1.25	1.53	113.60	0.00	0.50
0.34	77.34	1.38	1.78	113.60	0.00	0.50
0.41	72.98	1.41	1.93	113.60	0.00	0.50
0.47	69.08	1.40	2.03	113.60	0.00	0.50
0.53	64.82	1.35	2.09	113.60	0.00	0.50
0.60	61.11	1.30	2.13	113.60	0.00	0.50
0.66	55.27	1.22	2.20	113.60	0.00	0.50
0.72	51.93	1.17	2.25	113.60	0.00	0.50
0.81	45.16	1.08	2.38	113.60	0.00	0.50
0.87	41.08	0.98	2.39	113.60	0.00	0.50
0.94	37.74	0.94	2.50	113.60	0.00	0.50
1.00	35.70	0.91	2.56	113.60	0.00	0.50
1.06	32.55	0.82	2.53	113.60	0.00	0.50
1.12	28.65	0.75	2.62	113.60	0.00	0.50
1.18	25.59	0.71	2.78	113.60	0.00	0.50
1.27	21.88	0.65	2.95	113.60	0.00	0.50
1.33	17.80	0.58	3.24	113.60	0.00	0.50
1.39	16.69	0.52	3.14	113.60	0.00	0.50
1.46	16.69	0.47	2.80	113.60	0.00	0.50
1.52	14.74	0.41	2.75	113.60	0.00	0.50
1.58	12.89	0.36	2.79	113.60	0.00	0.50
1.66	12.80	0.31	2.42	113.60	0.00	0.50
1.72	11.13	0.27	2.38	113.60	0.00	0.50
1.78	9.55	0.23	2.38	113.60	0.00	0.50
1.84	8.53	0.20	2.30	113.60	0.00	0.50
1.90	8.16	0.17	2.07	113.60	0.00	0.50
1.97	7.60	0.16	2.06	113.60	0.00	0.50
2.04	6.95	0.11	1.61	113.60	0.00	0.50
2.12	6.77	0.11	1.56	113.60	0.00	0.50
2.19	6.58	0.11	1.63	113.60	0.00	0.50
2.25	6.31	0.11	1.79	113.60	0.00	0.50
2.31	5.75	0.11	1.99	113.60	0.00	0.50
2.37	5.38	0.10	1.94	113.60	0.00	0.50
2.43	5.38	0.09	1.73	113.60	0.00	0.50
2.50	5.29	0.09	1.66	113.60	0.00	0.50
2.58	5.29	0.08	1.59	113.60	0.00	0.50
2.65	5.29	0.08	1.59	113.60	0.00	0.50
2.70	5.66	0.08	1.47	113.60	0.00	0.50
2.77	6.03	0.08	1.35	113.60	0.00	0.50
2.83	5.84	0.09	1.48	113.60	0.00	0.50
2.89	5.66	0.09	1.57	113.60	0.00	0.50
2.97	5.66	0.09	1.52	113.60	0.00	0.50
3.04	5.66	0.08	1.45	113.60	0.00	0.50
3.10	5.66	0.08	1.35	113.60	0.00	0.50
3.16	5.29	0.07	1.36	113.60	0.00	0.50
3.22	5.10	0.07	1.29	113.60	0.00	0.50

3.29	4.82	0.06	1.28	113.60	0.00	0.50
3.35	4.82	0.06	1.28	113.60	0.00	0.50
3.43	4.82	0.06	1.20	113.60	0.00	0.50
3.50	4.82	0.06	1.29	113.60	0.00	0.50
3.56	4.73	0.07	1.47	113.60	0.00	0.50
3.62	4.64	0.08	1.63	113.60	0.00	0.50
3.68	4.54	0.08	1.80	113.60	0.00	0.50
3.75	4.54	0.09	1.89	113.60	0.00	0.50
3.81	5.10	0.09	1.71	113.60	0.00	0.50
3.87	5.56	0.08	1.53	113.60	0.00	0.50
3.95	5.56	0.08	1.38	113.60	0.00	0.50
4.02	5.66	0.07	1.28	113.60	0.00	0.50
4.08	5.66	0.07	1.24	113.60	0.00	0.50
4.14	5.38	0.07	1.31	113.60	0.00	0.50
4.20	5.38	0.07	1.32	113.60	0.00	0.50
4.27	5.38	0.09	1.59	113.60	0.00	0.50
4.35	6.21	0.11	1.76	113.60	0.00	0.50
4.42	6.77	0.13	1.89	113.60	0.00	0.50
4.48	6.95	0.14	2.07	113.60	0.00	0.50
4.54	8.62	0.16	1.87	113.60	0.00	0.50
4.60	10.94	0.19	1.72	113.60	0.00	0.50
4.66	13.35	0.22	1.66	113.60	0.00	0.50
4.72	17.53	0.27	1.54	113.60	0.00	0.50
4.81	24.67	0.33	1.34	113.60	0.00	0.50
4.87	29.77	0.33	1.10	113.60	0.00	0.50
4.93	34.22	0.31	0.90	113.60	0.00	0.50
5.00	38.85	0.32	0.83	113.60	0.00	0.50
5.06	42.66	0.35	0.83	113.60	0.00	0.50
5.13	45.62	0.38	0.84	113.60	0.00	0.50
5.19	47.20	0.42	0.88	113.60	0.00	0.50
5.25	48.40	0.45	0.93	113.60	0.00	0.50
5.34	51.74	0.48	0.94	113.60	0.00	0.50
5.39	53.50	0.51	0.96	113.60	0.00	0.50
5.46	55.36	0.56	1.00	113.60	0.00	0.50
5.52	56.84	0.60	1.06	113.60	0.00	0.50
5.59	57.95	0.65	1.12	113.60	0.00	0.50
5.65	58.23	0.69	1.18	113.60	0.00	0.50
5.73	57.68	0.73	1.26	113.60	0.00	0.50
5.79	56.47	0.75	1.32	113.60	0.00	0.50
5.85	54.15	0.77	1.42	113.60	0.00	0.50
5.91	51.37	0.78	1.52	113.60	0.00	0.50
5.98	48.40	0.79	1.64	113.60	0.00	0.50
6.04	45.62	0.79	1.73	113.60	0.00	0.50
6.12	41.82	0.78	1.86	113.60	0.00	0.50
6.19	38.95	0.78	1.99	113.60	0.00	0.50
6.25	38.76	0.75	1.94	113.60	0.00	0.50
6.32	38.76	0.70	1.81	113.60	0.00	0.50
6.38	38.58	0.65	1.67	113.60	0.00	0.50
6.44	41.82	0.59	1.40	113.60	0.00	0.50
6.50	45.44	0.53	1.16	113.60	0.00	0.50

6.57	49.15	0.49	1.00	113.60	0.00	0.50
6.63	52.67	0.47	0.89	113.60	0.00	0.50
6.69	54.15	0.44	0.81	113.60	0.00	0.50
6.77	57.12	0.40	0.69	113.60	0.00	0.50
6.83	58.88	0.41	0.70	113.60	0.00	0.50
6.90	59.44	0.45	0.76	113.60	0.00	0.50
6.96	57.95	0.52	0.90	113.60	0.00	0.50
7.03	54.43	0.59	1.08	113.60	0.00	0.50
7.09	49.05	0.67	1.37	113.60	0.00	0.50
7.15	42.75	0.76	1.78	113.60	0.00	0.50
7.24	34.87	0.85	2.45	113.60	0.00	0.50
7.30	29.21	0.86	2.94	113.60	0.00	0.50
7.37	24.85	0.82	3.30	113.60	0.00	0.50
7.42	24.85	0.79	3.18	113.60	0.00	0.50
7.51	24.85	0.75	3.01	113.60	0.00	0.50
7.57	26.71	0.73	2.72	113.60	0.00	0.50
7.64	32.45	0.51	1.57	113.60	0.00	0.50
7.70	38.85	0.37	0.95	113.60	0.00	0.50
7.77	44.88	0.44	0.98	113.60	0.00	0.50
7.83	49.89	0.52	1.04	113.60	0.00	0.50
7.90	52.85	0.63	1.20	113.60	0.00	0.50
7.97	53.50	0.72	1.35	113.60	0.00	0.50
8.01	45.71	0.75	1.64	113.60	0.00	0.50
8.07	51.09	0.71	1.39	113.60	0.00	0.50
8.17	48.40	0.58	1.21	113.60	0.00	0.50
8.23	44.05	0.58	1.32	113.60	0.00	0.50
8.30	37.56	0.58	1.55	113.60	0.00	0.50
8.33	33.85	0.58	1.71	113.60	0.00	0.50
8.40	27.17	0.58	2.12	113.60	0.00	0.50
8.49	20.77	0.60	2.90	113.60	0.00	0.50
8.56	17.06	0.63	3.70	113.60	0.00	0.50
8.62	14.65	0.69	4.69	113.60	0.00	0.50
8.68	16.69	0.76	4.58	113.60	0.00	0.50
8.75	23.00	0.82	3.55	113.60	0.00	0.50
8.81	28.19	0.83	2.95	113.60	0.00	0.50
8.88	30.69	0.86	2.80	113.60	0.00	0.50
8.94	31.81	0.93	2.91	113.60	0.00	0.50
9.01	35.05	0.98	2.80	113.60	0.00	0.50
9.08	39.97	1.02	2.55	113.60	0.00	0.50
9.14	43.03	1.03	2.40	113.60	0.00	0.50
9.21	44.69	1.05	2.35	113.60	0.00	0.50
9.27	45.90	1.07	2.34	113.60	0.00	0.50
9.34	46.92	1.09	2.33	113.60	0.00	0.50
9.40	48.77	1.11	2.28	113.60	0.00	0.50
9.47	51.00	1.15	2.25	113.60	0.00	0.50
9.53	52.95	1.18	2.22	113.60	0.00	0.50
9.60	54.25	1.21	2.23	113.60	0.00	0.50
9.66	53.69	1.24	2.31	113.60	0.00	0.50
9.73	51.46	1.26	2.45	113.60	0.00	0.50
9.79	47.85	1.26	2.64	113.60	0.00	0.50

9.86	43.40	1.21	2.79	113.60	0.00	0.50
9.92	38.11	1.09	2.87	113.60	0.00	0.50
9.99	33.38	0.95	2.83	113.60	0.00	0.50
10.05	29.58	0.78	2.63	127.60	0.00	0.50
10.12	27.08	0.62	2.29	127.60	0.00	0.50
10.18	25.13	0.49	1.95	127.60	0.00	0.50
10.25	24.20	0.40	1.67	127.60	0.00	0.50
10.32	22.90	0.40	1.74	127.60	0.00	0.50
10.38	22.44	0.41	1.82	127.60	0.00	0.50
10.44	23.00	0.39	1.71	127.60	0.00	0.50
10.51	23.55	0.41	1.75	127.60	0.00	0.50
10.57	25.13	0.39	1.55	127.60	0.00	0.50
10.64	28.93	0.40	1.39	127.60	0.00	0.50
10.71	34.96	0.53	1.51	127.60	0.00	0.50
10.78	42.38	0.65	1.53	127.60	0.00	0.50
10.84	48.22	0.71	1.46	127.60	0.00	0.50
10.92	44.42	0.70	1.57	127.60	0.00	0.50
10.99	47.38	0.67	1.41	127.60	0.00	0.50
11.06	43.58	0.64	1.46	127.60	0.00	0.50
11.12	39.87	0.58	1.46	127.60	0.00	0.50
11.18	37.00	0.49	1.32	127.60	0.00	0.50
11.25	34.77	0.41	1.19	127.60	0.00	0.50
11.31	32.92	0.40	1.22	127.60	0.00	0.50
11.38	31.43	0.43	1.38	127.60	0.00	0.50
11.44	30.14	0.47	1.56	127.60	0.00	0.50
11.50	29.02	0.49	1.70	127.60	0.00	0.50
11.57	28.10	0.52	1.83	127.60	0.00	0.50
11.64	28.10	0.54	1.93	127.60	0.00	0.50
11.70	28.10	0.59	2.10	127.60	0.00	0.50
11.77	28.10	0.66	2.36	127.60	0.00	0.50
11.83	27.63	0.75	2.71	127.60	0.00	0.50
11.90	26.52	0.82	3.11	127.60	0.00	0.50
11.96	25.41	0.87	3.44	127.60	0.00	0.50
12.02	23.65	0.92	3.90	127.60	0.00	0.50
12.09	23.09	0.99	4.29	127.60	0.00	0.50
12.15	21.23	1.03	4.85	127.60	0.00	0.50
12.22	19.19	0.96	4.99	127.60	0.00	0.50
12.28	16.69	0.91	5.45	127.60	0.00	0.50
12.34	16.78	0.92	5.50	127.60	0.00	0.50
12.41	16.78	0.83	4.95	127.60	0.00	0.50
12.48	16.88	0.69	4.12	127.60	0.00	0.50
12.54	18.64	0.58	3.12	127.60	0.00	0.50
12.61	23.27	0.50	2.14	127.60	0.00	0.50
12.68	31.81	0.60	1.90	127.60	0.00	0.50
12.74	36.26	0.57	1.57	127.60	0.00	0.50
12.80	33.75	0.64	1.91	127.60	0.00	0.50
12.86	28.65	0.67	2.34	127.60	0.00	0.50
12.96	20.68	0.64	3.08	127.60	0.00	0.50
12.99	18.92	0.62	3.26	127.60	0.00	0.50
13.09	14.56	0.56	3.83	127.60	0.00	0.50

13.12	13.26	0.53	4.03	127.60	0.00	0.50
13.19	11.78	0.48	4.07	127.60	0.00	0.50
13.28	10.57	0.35	3.28	127.60	0.00	0.50
13.35	10.20	0.25	2.45	127.60	0.00	0.50
13.41	10.11	0.20	1.97	127.60	0.00	0.50
13.47	9.83	0.18	1.86	127.60	0.00	0.50
13.54	9.74	0.17	1.77	127.60	0.00	0.50
13.60	9.74	0.17	1.77	127.60	0.00	0.50
13.67	9.74	0.17	1.77	127.60	0.00	0.50
13.74	9.74	0.17	1.76	127.60	0.00	0.50
13.80	9.46	0.17	1.82	127.60	0.00	0.50
13.86	9.37	0.17	1.84	127.60	0.00	0.50
13.93	9.27	0.17	1.85	127.60	0.00	0.50
14.00	8.90	0.17	1.87	127.60	0.00	0.50
14.07	8.81	0.17	1.90	127.60	0.00	0.50
14.11	8.81	0.17	1.94	127.60	0.00	0.50
14.19	8.81	0.18	2.01	127.60	0.00	0.50
14.26	8.81	0.18	2.09	127.60	0.00	0.50
14.32	8.62	0.18	2.12	127.60	0.00	0.50
14.39	8.44	0.17	2.05	127.60	0.00	0.50
14.46	8.25	0.17	2.04	127.60	0.00	0.50
14.52	8.07	0.17	2.09	127.60	0.00	0.50
14.59	7.88	0.17	2.18	127.60	0.00	0.50
14.65	7.88	0.17	2.15	127.60	0.00	0.50
14.72	7.97	0.16	2.07	127.60	0.00	0.50
14.78	7.79	0.16	2.09	127.60	0.00	0.50
14.85	7.79	0.16	2.00	127.60	0.00	0.50
14.91	7.51	0.15	1.97	127.60	0.00	0.50
14.98	7.05	0.14	2.02	127.60	0.00	0.50
15.04	6.95	0.14	1.99	116.50	0.00	0.50
15.11	6.68	0.14	2.05	116.50	0.00	0.50
15.17	6.49	0.13	2.07	116.50	0.00	0.50
15.23	6.49	0.13	1.97	116.50	0.00	0.50
15.30	6.49	0.12	1.80	116.50	0.00	0.50
15.36	6.49	0.11	1.65	116.50	0.00	0.50
15.43	6.40	0.10	1.61	116.50	0.00	0.50
15.50	6.31	0.10	1.64	116.50	0.00	0.50
15.56	6.21	0.10	1.66	116.50	0.00	0.50
15.63	6.21	0.10	1.67	116.50	0.00	0.50
15.69	6.21	0.11	1.72	116.50	0.00	0.50
15.75	6.21	0.11	1.73	116.50	0.00	0.50
15.82	6.21	0.11	1.73	116.50	0.00	0.50
15.88	6.21	0.11	1.77	116.50	0.00	0.50
15.97	6.21	0.12	1.87	116.50	0.00	0.50
16.04	6.31	0.12	1.91	116.50	0.00	0.50
16.11	6.40	0.13	1.95	116.50	0.00	0.50
16.17	6.49	0.13	1.96	116.50	0.00	0.50
16.21	6.68	0.13	1.90	116.50	0.00	0.50
16.27	6.86	0.13	1.84	116.50	0.00	0.50
16.34	7.51	0.12	1.63	116.50	0.00	0.50

16.43	8.35	0.13	1.50	116.50	0.00	0.50
16.49	8.90	0.14	1.54	116.50	0.00	0.50
16.56	8.81	0.15	1.71	116.50	0.00	0.50
16.62	8.44	0.18	2.19	116.50	0.00	0.50
16.69	8.44	0.28	3.28	116.50	0.00	0.50
16.75	10.48	0.35	3.32	116.50	0.00	0.50
16.82	14.93	0.34	2.30	116.50	0.00	0.50
16.88	17.53	0.38	2.17	116.50	0.00	0.50
16.95	16.88	0.47	2.81	116.50	0.00	0.50
17.01	15.30	0.61	4.00	116.50	0.00	0.50
17.08	14.74	0.75	5.07	116.50	0.00	0.50
17.13	15.11	0.83	5.52	116.50	0.00	0.50
17.19	25.96	0.94	3.63	116.50	0.00	0.50
17.26	30.60	1.01	3.32	116.50	0.00	0.50
17.32	31.99	1.08	3.39	116.50	0.00	0.50
17.42	32.92	1.25	3.79	116.50	0.00	0.50
17.48	34.03	1.39	4.10	116.50	0.00	0.50
17.55	36.91	1.56	4.22	116.50	0.00	0.50
17.61	40.43	1.71	4.22	116.50	0.00	0.50
17.68	42.47	1.84	4.34	116.50	0.00	0.50
17.74	43.95	1.95	4.45	116.50	0.00	0.50
17.80	45.71	2.03	4.43	116.50	0.00	0.50
17.87	46.83	2.06	4.40	116.50	0.00	0.50
17.93	44.60	2.00	4.49	116.50	0.00	0.50
18.00	37.00	1.81	4.89	116.50	0.00	0.50
18.07	26.52	1.51	5.68	116.50	0.00	0.50
18.13	19.66	1.22	6.20	116.50	0.00	0.50
18.20	15.76	0.97	6.17	116.50	0.00	0.50
18.26	12.98	0.71	5.50	116.50	0.00	0.50
18.33	11.03	0.47	4.28	116.50	0.00	0.50
18.40	10.11	0.31	3.05	116.50	0.00	0.50
18.46	9.83	0.28	2.81	116.50	0.00	0.50
18.52	9.83	0.35	3.60	116.50	0.00	0.50
18.59	9.92	0.43	4.37	116.50	0.00	0.50
18.65	10.48	0.46	4.42	116.50	0.00	0.50
18.72	11.13	0.46	4.14	116.50	0.00	0.50
18.78	12.05	0.46	3.79	116.50	0.00	0.50
18.84	12.15	0.45	3.74	116.50	0.00	0.50
18.91	11.78	0.47	3.97	116.50	0.00	0.50
18.98	11.87	0.47	3.98	116.50	0.00	0.50
19.04	12.61	0.47	3.74	116.50	0.00	0.50
19.11	13.17	0.46	3.52	116.50	0.00	0.50
19.17	13.82	0.44	3.19	116.50	0.00	0.50
19.24	14.47	0.49	3.38	116.50	0.00	0.50
19.31	15.11	0.59	3.93	116.50	0.00	0.50
19.37	16.23	0.73	4.49	116.50	0.00	0.50
19.44	18.08	0.89	4.92	116.50	0.00	0.50
19.50	19.19	1.09	5.68	116.50	0.00	0.50
19.57	20.68	1.30	6.29	116.50	0.00	0.50
19.63	23.00	1.35	5.87	116.50	0.00	0.50

19.70	25.87	1.28	4.96	116.50	0.00	0.50
19.76	28.19	1.43	5.07	116.50	0.00	0.50
19.83	30.97	1.57	5.06	116.50	0.00	0.50
19.90	34.40	1.70	4.95	116.50	0.00	0.50
19.96	37.18	1.79	4.82	116.50	0.00	0.50
20.02	41.08	1.85	4.51	125.50	0.00	0.50
20.09	42.28	1.91	4.52	125.50	0.00	0.50
20.16	42.38	1.95	4.59	125.50	0.00	0.50
20.22	42.56	1.92	4.52	125.50	0.00	0.50
20.28	42.56	1.86	4.36	125.50	0.00	0.50
20.35	42.38	1.78	4.19	125.50	0.00	0.50
20.42	42.19	1.70	4.02	125.50	0.00	0.50
20.48	42.28	1.63	3.85	125.50	0.00	0.50
20.54	42.84	1.57	3.68	125.50	0.00	0.50
20.61	44.60	1.49	3.35	125.50	0.00	0.50
20.67	47.11	1.34	2.85	125.50	0.00	0.50
20.77	51.46	1.02	1.98	125.50	0.00	0.50
20.80	52.58	0.91	1.74	125.50	0.00	0.50
20.90	55.08	0.82	1.48	125.50	0.00	0.50
20.96	56.01	0.84	1.49	125.50	0.00	0.50
21.03	56.01	0.89	1.60	125.50	0.00	0.50
21.09	55.08	0.98	1.78	125.50	0.00	0.50
21.16	54.06	1.08	2.00	125.50	0.00	0.50
21.22	55.03	1.18	2.14	125.50	0.00	0.50
21.29	53.78	1.29	2.40	125.50	0.00	0.50
21.35	54.99	1.39	2.53	125.50	0.00	0.50
21.41	56.38	1.45	2.58	125.50	0.00	0.50
21.48	57.86	1.48	2.57	125.50	0.00	0.50
21.55	59.35	1.43	2.41	125.50	0.00	0.50
21.61	61.48	1.25	2.04	125.50	0.00	0.50
21.68	63.33	0.96	1.52	125.50	0.00	0.50
21.75	64.63	0.75	1.16	125.50	0.00	0.50
21.81	64.82	0.69	1.06	125.50	0.00	0.50
21.87	64.26	0.71	1.10	125.50	0.00	0.50
21.94	62.31	0.73	1.17	125.50	0.00	0.50
22.01	58.79	0.75	1.28	125.50	0.00	0.50
22.07	54.06	0.91	1.68	125.50	0.00	0.50
22.14	48.40	1.06	2.19	125.50	0.00	0.50
22.20	43.03	1.22	2.83	125.50	0.00	0.50
22.27	37.00	1.35	3.64	125.50	0.00	0.50
22.34	34.12	1.39	4.07	125.50	0.00	0.50
22.40	31.71	1.36	4.29	125.50	0.00	0.50
22.47	29.02	1.30	4.48	125.50	0.00	0.50
22.53	25.69	1.21	4.72	125.50	0.00	0.50
22.60	21.42	1.11	5.18	125.50	0.00	0.50
22.67	17.80	1.00	5.63	125.50	0.00	0.50
22.73	15.86	0.90	5.69	125.50	0.00	0.50
22.80	14.74	0.81	5.52	125.50	0.00	0.50
22.86	14.93	0.72	4.84	125.50	0.00	0.50
22.93	15.39	0.65	4.23	125.50	0.00	0.50

22.99	15.30	0.61	3.96	125.50	0.00	0.50
23.06	14.56	0.55	3.77	125.50	0.00	0.50
23.12	13.91	0.48	3.43	125.50	0.00	0.50
23.19	13.17	0.43	3.28	125.50	0.00	0.50
23.25	12.80	0.41	3.17	125.50	0.00	0.50
23.31	13.12	0.39	2.99	125.50	0.00	0.50
23.38	12.33	0.37	3.03	125.50	0.00	0.50
23.44	13.07	0.35	2.71	125.50	0.00	0.50
23.51	13.54	0.33	2.43	125.50	0.00	0.50
23.57	13.35	0.29	2.16	125.50	0.00	0.50
23.64	12.89	0.24	1.86	125.50	0.00	0.50
23.70	12.24	0.22	1.81	125.50	0.00	0.50
23.76	11.78	0.22	1.87	125.50	0.00	0.50
23.82	11.13	0.22	1.97	125.50	0.00	0.50
23.89	10.76	0.25	2.28	125.50	0.00	0.50
23.95	10.76	0.32	3.01	125.50	0.00	0.50
24.02	10.85	0.42	3.89	125.50	0.00	0.50
24.08	12.24	0.55	4.47	125.50	0.00	0.50
24.15	15.76	0.74	4.69	125.50	0.00	0.50
24.22	20.96	0.98	4.68	125.50	0.00	0.50
24.28	26.89	1.19	4.44	125.50	0.00	0.50
24.35	33.38	1.39	4.17	125.50	0.00	0.50
24.41	42.19	1.56	3.69	125.50	0.00	0.50
24.48	58.98	1.71	2.89	125.50	0.00	0.50
24.54	90.13	1.88	2.09	125.50	0.00	0.50
24.61	125.92	2.09	1.66	125.50	0.00	0.50
24.68	149.94	2.27	1.51	125.50	0.00	0.50
24.74	160.33	2.37	1.48	125.50	0.00	0.50
24.81	162.83	2.34	1.44	125.50	0.00	0.50
24.88	157.82	2.16	1.37	125.50	0.00	0.50
24.94	150.68	1.98	1.31	125.50	0.00	0.50
25.00	142.24	1.88	1.32	119.80	0.00	0.50
25.08	133.34	1.82	1.37	119.80	0.00	0.50
25.14	126.02	1.68	1.33	119.80	0.00	0.50
25.20	119.53	1.46	1.22	119.80	0.00	0.50
25.26	114.06	1.28	1.13	119.80	0.00	0.50
25.33	108.58	1.21	1.11	119.80	0.00	0.50
25.39	104.50	1.17	1.12	119.80	0.00	0.50
25.46	99.87	1.14	1.14	119.80	0.00	0.50
25.53	95.79	1.10	1.14	119.80	0.00	0.50
25.59	91.80	1.06	1.16	119.80	0.00	0.50
25.66	88.09	0.95	1.08	119.80	0.00	0.50
25.72	84.20	0.77	0.92	119.80	0.00	0.50
25.82	76.96	0.82	1.07	119.80	0.00	0.50
25.86	73.63	0.86	1.17	119.80	0.00	0.50
25.92	65.47	0.95	1.45	119.80	0.00	0.50
25.99	56.75	1.03	1.82	119.80	0.00	0.50
26.06	43.40	1.02	2.36	119.80	0.00	0.50
26.13	36.44	0.98	2.69	119.80	0.00	0.50
26.19	29.86	0.93	3.12	119.80	0.00	0.50

26.26	24.67	0.88	3.57	119.80	0.00	0.50
26.32	19.84	0.79	4.00	119.80	0.00	0.50
26.39	16.60	0.72	4.35	119.80	0.00	0.50
26.45	14.09	0.65	4.63	119.80	0.00	0.50
26.52	12.15	0.54	4.45	119.80	0.00	0.50
26.59	11.31	0.43	3.78	119.80	0.00	0.50
26.65	11.13	0.37	3.33	119.80	0.00	0.50
26.71	10.85	0.34	3.11	119.80	0.00	0.50
26.78	10.76	0.31	2.89	119.80	0.00	0.50
26.85	10.76	0.29	2.72	119.80	0.00	0.50
26.91	10.66	0.28	2.61	119.80	0.00	0.50
26.98	10.66	0.27	2.50	119.80	0.00	0.50
27.04	10.39	0.26	2.54	119.80	0.00	0.50
27.11	10.39	0.27	2.58	119.80	0.00	0.50
27.17	10.39	0.27	2.58	119.80	0.00	0.50
27.23	10.48	0.26	2.46	119.80	0.00	0.50
27.30	10.57	0.25	2.35	119.80	0.00	0.50
27.36	10.85	0.25	2.32	119.80	0.00	0.50
27.46	10.85	0.25	2.34	119.80	0.00	0.50
27.52	10.66	0.26	2.39	119.80	0.00	0.50
27.59	10.39	0.26	2.46	119.80	0.00	0.50
27.65	10.29	0.26	2.54	119.80	0.00	0.50
27.72	10.29	0.27	2.62	119.80	0.00	0.50
27.78	10.29	0.28	2.72	119.80	0.00	0.50
27.85	10.29	0.29	2.81	119.80	0.00	0.50
27.91	10.29	0.29	2.79	119.80	0.00	0.50
27.98	10.20	0.28	2.75	119.80	0.00	0.50
28.04	10.20	0.27	2.69	119.80	0.00	0.50
28.11	10.11	0.27	2.66	119.80	0.00	0.50
28.17	10.01	0.26	2.63	119.80	0.00	0.50
28.23	9.83	0.26	2.63	119.80	0.00	0.50
28.30	9.74	0.25	2.61	119.80	0.00	0.50
28.36	9.74	0.25	2.53	119.80	0.00	0.50
28.43	9.55	0.24	2.52	119.80	0.00	0.50
28.49	9.37	0.23	2.48	119.80	0.00	0.50
28.56	9.09	0.23	2.51	119.80	0.00	0.50
28.62	8.99	0.23	2.55	119.80	0.00	0.50
28.69	8.99	0.23	2.57	119.80	0.00	0.50
28.75	9.18	0.23	2.54	119.80	0.00	0.50
28.82	9.46	0.23	2.48	119.80	0.00	0.50
28.88	9.64	0.24	2.47	119.80	0.00	0.50
28.95	9.46	0.25	2.62	119.80	0.00	0.50
29.01	8.53	0.26	3.00	119.80	0.00	0.50
29.07	9.27	0.26	2.76	119.80	0.00	0.50
29.14	9.18	0.24	2.64	119.80	0.00	0.50
29.20	9.09	0.23	2.55	119.80	0.00	0.50
29.26	8.90	0.23	2.60	119.80	0.00	0.50
29.33	8.53	0.23	2.71	119.80	0.00	0.50
29.40	8.44	0.23	2.73	119.80	0.00	0.50
29.46	8.44	0.24	2.87	119.80	0.00	0.50

29.53	8.62	0.24	2.76	119.80	0.00	0.50
29.62	8.90	0.23	2.56	119.80	0.00	0.50
29.69	9.27	0.23	2.48	119.80	0.00	0.50
29.75	9.27	0.24	2.63	119.80	0.00	0.50
29.82	9.27	0.27	2.87	119.80	0.00	0.50
29.88	9.27	0.28	3.05	119.80	0.00	0.50
29.94	9.27	0.28	3.06	119.80	0.00	0.50
30.01	9.37	0.27	2.92	123.90	0.00	0.50
30.08	9.27	0.27	2.93	123.90	0.00	0.50
30.14	8.90	0.25	2.84	123.90	0.00	0.50
30.20	8.35	0.22	2.59	123.90	0.00	0.50
30.27	7.70	0.20	2.55	123.90	0.00	0.50
30.34	7.14	0.19	2.65	123.90	0.00	0.50
30.40	6.58	0.19	2.81	123.90	0.00	0.50
30.47	6.12	0.18	2.97	123.90	0.00	0.50
30.53	6.63	0.18	2.68	123.90	0.00	0.50
30.60	6.68	0.17	2.56	123.90	0.00	0.50
30.66	7.88	0.16	2.09	123.90	0.00	0.50
30.73	8.16	0.16	1.95	123.90	0.00	0.50
30.80	8.25	0.16	1.97	123.90	0.00	0.50
30.86	8.35	0.17	2.03	123.90	0.00	0.50
30.93	8.81	0.18	2.04	123.90	0.00	0.50
30.99	9.27	0.19	2.01	123.90	0.00	0.50
31.06	9.46	0.19	1.97	123.90	0.00	0.50
31.12	9.27	0.19	2.01	123.90	0.00	0.50
31.19	9.27	0.19	2.01	123.90	0.00	0.50
31.25	9.27	0.19	2.03	123.90	0.00	0.50
31.32	9.27	0.20	2.21	123.90	0.00	0.50
31.38	8.99	0.23	2.58	123.90	0.00	0.50
31.45	8.81	0.26	2.92	123.90	0.00	0.50
31.52	9.09	0.29	3.14	123.90	0.00	0.50
31.58	9.74	0.32	3.25	123.90	0.00	0.50
31.64	10.01	0.35	3.45	123.90	0.00	0.50
31.70	11.41	0.35	3.10	123.90	0.00	0.50
31.77	11.78	0.30	2.56	123.90	0.00	0.50
31.84	12.33	0.23	1.86	123.90	0.00	0.50
31.91	12.70	0.34	2.64	123.90	0.00	0.50
31.97	13.35	0.46	3.42	123.90	0.00	0.50
32.03	14.74	0.58	3.93	123.90	0.00	0.50
32.10	17.25	0.68	3.94	123.90	0.00	0.50
32.18	17.34	0.76	4.37	123.90	0.00	0.50
32.24	18.08	0.80	4.44	123.90	0.00	0.50
32.31	17.43	0.84	4.80	123.90	0.00	0.50
32.37	15.58	0.85	5.45	123.90	0.00	0.50
32.43	14.09	0.81	5.78	123.90	0.00	0.50
32.49	13.17	0.77	5.82	123.90	0.00	0.50
32.56	12.43	0.72	5.79	123.90	0.00	0.50
32.62	12.61	0.63	5.00	123.90	0.00	0.50
32.68	12.43	0.51	4.14	123.90	0.00	0.50
32.75	12.24	0.40	3.24	123.90	0.00	0.50

32.81	11.87	0.31	2.57	123.90	0.00	0.50
32.88	11.22	0.26	2.30	123.90	0.00	0.50
32.95	10.85	0.24	2.17	123.90	0.00	0.50
33.01	10.39	0.23	2.22	123.90	0.00	0.50
33.08	10.48	0.23	2.20	123.90	0.00	0.50
33.15	10.48	0.24	2.25	123.90	0.00	0.50
33.21	10.76	0.24	2.18	123.90	0.00	0.50
33.28	10.48	0.22	2.11	123.90	0.00	0.50
33.34	10.48	0.22	2.05	123.90	0.00	0.50
33.40	10.85	0.22	2.05	123.90	0.00	0.50
33.47	11.13	0.22	2.00	123.90	0.00	0.50
33.54	11.22	0.21	1.86	123.90	0.00	0.50
33.60	10.57	0.24	2.30	123.90	0.00	0.50
33.67	10.29	0.25	2.46	123.90	0.00	0.50
33.73	10.39	0.27	2.58	123.90	0.00	0.50
33.80	10.48	0.28	2.68	123.90	0.00	0.50
33.87	10.25	0.29	2.79	123.90	0.00	0.50
33.93	10.11	0.29	2.83	123.90	0.00	0.50
34.00	10.66	0.29	2.73	123.90	0.00	0.50
34.07	10.57	0.31	2.90	123.90	0.00	0.50
34.13	10.85	0.31	2.89	123.90	0.00	0.50
34.20	11.13	0.32	2.88	123.90	0.00	0.50
34.26	11.50	0.36	3.13	123.90	0.00	0.50
34.32	12.05	0.46	3.80	123.90	0.00	0.50
34.39	12.52	0.61	4.84	123.90	0.00	0.50
34.45	14.00	0.78	5.58	123.90	0.00	0.50
34.52	16.78	0.94	5.62	123.90	0.00	0.50
34.58	20.96	1.04	4.98	123.90	0.00	0.50
34.65	25.96	1.12	4.32	123.90	0.00	0.50
34.71	31.34	1.25	3.99	123.90	0.00	0.50
34.78	36.72	1.40	3.82	123.90	0.00	0.50
34.85	39.87	1.52	3.82	123.90	0.00	0.50
34.94	43.67	1.68	3.84	123.90	0.00	0.50
35.01	47.57	1.82	3.82	123.90	0.00	0.50
35.04	50.26	1.90	3.77	123.20	0.00	0.50
35.11	55.73	2.01	3.61	123.20	0.00	0.50
35.17	61.02	2.08	3.40	123.20	0.00	0.50
35.24	64.72	2.10	3.25	123.20	0.00	0.50
35.31	68.16	2.13	3.12	123.20	0.00	0.50
35.37	73.16	2.18	2.98	123.20	0.00	0.50
35.44	79.56	2.24	2.82	123.20	0.00	0.50
35.50	87.26	2.23	2.55	123.20	0.00	0.50
35.57	96.72	2.05	2.12	123.20	0.00	0.50
35.64	104.69	1.79	1.71	123.20	0.00	0.50
35.70	110.90	1.60	1.44	123.20	0.00	0.50
35.76	115.91	1.52	1.31	123.20	0.00	0.50
35.83	120.64	1.44	1.20	123.20	0.00	0.50
35.89	123.70	1.36	1.10	123.20	0.00	0.50
35.96	126.76	1.41	1.11	123.20	0.00	0.50
36.03	128.80	1.47	1.14	123.20	0.00	0.50

36.09	129.17	1.54	1.20	123.20	0.00	0.50
36.16	127.78	1.61	1.26	123.20	0.00	0.50
36.22	123.88	1.68	1.35	123.20	0.00	0.50
36.32	124.16	1.76	1.42	123.20	0.00	0.50
36.38	122.59	1.80	1.47	123.20	0.00	0.50
36.44	121.10	1.83	1.51	123.20	0.00	0.50
36.51	119.53	1.83	1.53	123.20	0.00	0.50
36.57	117.58	1.82	1.55	123.20	0.00	0.50
36.63	114.52	1.82	1.59	123.20	0.00	0.50
36.70	114.24	1.82	1.59	123.20	0.00	0.50
36.76	112.02	1.83	1.64	123.20	0.00	0.50
36.82	109.42	1.85	1.69	123.20	0.00	0.50
36.89	105.71	1.83	1.73	123.20	0.00	0.50
36.96	100.80	1.80	1.79	123.20	0.00	0.50
37.02	95.23	1.77	1.86	123.20	0.00	0.50
37.09	90.69	1.71	1.88	123.20	0.00	0.50
37.14	82.90	1.64	1.98	123.20	0.00	0.50
37.21	83.46	1.57	1.89	123.20	0.00	0.50
37.30	80.49	1.53	1.90	123.20	0.00	0.50
37.36	75.57	1.52	2.01	123.20	0.00	0.50
37.43	69.92	1.52	2.18	123.20	0.00	0.50
37.49	63.24	1.50	2.37	123.20	0.00	0.50
37.56	57.03	1.47	2.58	123.20	0.00	0.50
37.63	50.44	1.47	2.92	123.20	0.00	0.50
37.69	43.12	1.47	3.41	123.20	0.00	0.50
37.75	35.98	1.46	4.06	123.20	0.00	0.50
37.82	29.49	1.42	4.82	123.20	0.00	0.50
37.89	25.78	1.35	5.24	123.20	0.00	0.50
37.95	22.72	1.27	5.58	123.20	0.00	0.50
38.02	20.68	1.14	5.52	123.20	0.00	0.50
38.09	18.73	1.02	5.45	123.20	0.00	0.50
38.15	17.71	0.91	5.14	123.20	0.00	0.50
38.22	17.53	0.83	4.75	123.20	0.00	0.50
38.28	17.53	0.68	3.86	123.20	0.00	0.50
38.35	17.62	0.53	3.00	123.20	0.00	0.50
38.41	17.53	0.56	3.21	123.20	0.00	0.50
38.48	17.34	0.60	3.46	123.20	0.00	0.50
38.54	16.88	0.63	3.73	123.20	0.00	0.50
38.61	16.04	0.65	4.08	123.20	0.00	0.50
38.67	15.67	0.67	4.31	123.20	0.00	0.50
38.73	15.39	0.69	4.46	123.20	0.00	0.50
38.80	14.93	0.70	4.67	123.20	0.00	0.50
38.87	14.84	0.68	4.56	123.20	0.00	0.50
38.93	14.84	0.63	4.28	123.20	0.00	0.50
38.99	14.84	0.61	4.08	123.20	0.00	0.50
39.05	14.84	0.60	4.02	123.20	0.00	0.50
39.12	15.11	0.59	3.93	123.20	0.00	0.50
39.18	15.49	0.59	3.79	123.20	0.00	0.50
39.25	15.67	0.60	3.84	123.20	0.00	0.50
39.32	16.04	0.61	3.83	123.20	0.00	0.50

39.39	16.78	0.69	4.11	123.20	0.00	0.50
39.45	18.17	0.79	4.35	123.20	0.00	0.50
39.52	21.33	0.84	3.93	123.20	0.00	0.50
39.59	23.74	0.95	4.00	123.20	0.00	0.50
39.66	26.71	1.11	4.15	123.20	0.00	0.50
39.72	30.88	1.24	4.03	123.20	0.00	0.50
39.78	38.30	1.34	3.50	123.20	0.00	0.50
39.85	46.18	1.39	3.02	123.20	0.00	0.50
39.91	49.70	1.39	2.79	123.20	0.00	0.50
39.98	56.47	1.32	2.34	123.20	0.00	0.50
40.04	64.35	1.19	1.84	123.20	0.00	0.50
40.12	71.68	0.99	1.38	123.20	0.00	0.50
40.19	76.41	0.89	1.16	123.20	0.00	0.50
40.25	77.89	0.99	1.28	123.20	0.00	0.50
40.31	76.13	1.25	1.64	123.20	0.00	0.50
40.38	70.75	1.58	2.24	123.20	0.00	0.50
40.45	64.26	1.80	2.81	123.20	0.00	0.50
40.51	59.16	2.00	3.38	123.20	0.00	0.50
40.58	58.79	2.17	3.69	123.20	0.00	0.50
40.64	65.56	2.30	3.51	123.20	0.00	0.50
40.71	83.55	2.36	2.83	123.20	0.00	0.50
40.78	105.62	2.42	2.29	123.20	0.00	0.50
40.84	124.16	2.13	1.72	123.20	0.00	0.50
40.91	136.22	1.99	1.46	123.20	0.00	0.50
40.97	142.80	1.95	1.36	123.20	0.00	0.50
41.04	149.76	1.97	1.32	123.20	0.00	0.50
41.08	151.52	1.95	1.28	123.20	0.00	0.50
41.15	150.87	1.90	1.26	123.20	0.00	0.50
41.22	135.94	2.13	1.56	123.20	0.00	0.50
41.28	140.39	2.37	1.69	123.20	0.00	0.50
41.35	131.58	2.63	2.00	123.20	0.00	0.50
41.42	120.27	2.83	2.35	123.20	0.00	0.50
41.48	109.70	3.03	2.76	123.20	0.00	0.50
41.54	119.16	3.11	2.61	123.20	0.00	0.50
41.63	118.04	3.28	2.78	123.20	0.00	0.50
41.69	136.59	3.30	2.41	123.20	0.00	0.50
41.76	164.04	3.37	2.05	123.20	0.00	0.50
41.83	186.29	3.58	1.92	123.20	0.00	0.50
41.89	198.35	3.72	1.87	123.20	0.00	0.50
41.93	198.99	3.76	1.89	123.20	0.00	0.50
41.99	210.68	3.57	1.69	123.20	0.00	0.50
42.07	222.83	3.46	1.55	123.20	0.00	0.50
42.13	230.52	3.49	1.52	123.20	0.00	0.50
42.20	236.92	3.65	1.54	123.20	0.00	0.50
42.28	241.37	3.85	1.59	123.20	0.00	0.50
42.34	244.80	3.95	1.61	123.20	0.00	0.50
42.40	248.60	3.97	1.60	123.20	0.00	0.50
42.47	253.43	3.89	1.53	123.20	0.00	0.50
42.54	260.29	3.84	1.48	123.20	0.00	0.50
42.61	269.37	3.83	1.42	123.20	0.00	0.50

42.67	277.35	3.84	1.38	123.20	0.00	0.50
42.74	286.07	3.87	1.35	123.20	0.00	0.50
42.79	292.37	3.87	1.32	123.20	0.00	0.50
42.85	296.64	3.81	1.28	123.20	0.00	0.50
42.92	303.87	3.73	1.23	123.20	0.00	0.50
42.99	305.82	3.68	1.20	123.20	0.00	0.50
43.05	304.15	3.64	1.20	123.20	0.00	0.50
43.12	301.27	3.60	1.20	123.20	0.00	0.50
43.18	298.21	3.54	1.19	123.20	0.00	0.50
43.24	293.39	3.43	1.17	123.20	0.00	0.50
43.34	286.53	3.38	1.18	123.20	0.00	0.50
43.40	282.36	2.32	0.82	123.20	0.00	0.50
43.47	286.67	2.00	0.70	123.20	0.00	0.50
43.54	280.59	2.26	0.80	123.20	0.00	0.50
43.60	286.81	2.44	0.85	123.20	0.00	0.50
43.67	292.93	2.62	0.90	123.20	0.00	0.50
43.73	294.13	2.72	0.93	123.20	0.00	0.50
43.77	260.38	2.78	1.07	123.20	0.00	0.50
43.84	281.99	2.97	1.05	123.20	0.00	0.50
43.91	280.59	3.32	1.18	123.20	0.00	0.50
43.98	284.30	3.77	1.33	123.20	0.00	0.50
44.03	272.99	3.97	1.46	123.20	0.00	0.50
44.11	287.46	4.23	1.47	123.20	0.00	0.50
44.17	289.50	4.43	1.53	123.20	0.00	0.50
44.24	289.13	4.71	1.63	123.20	0.00	0.50
44.30	286.53	4.97	1.73	123.20	0.00	0.50
44.37	287.83	5.12	1.78	123.20	0.00	0.50
44.43	285.79	5.16	1.81	123.20	0.00	0.50
44.50	280.69	5.16	1.84	123.20	0.00	0.50
44.57	274.47	5.14	1.87	123.20	0.00	0.50
44.63	267.52	5.12	1.91	123.20	0.00	0.50
44.70	259.36	5.09	1.96	123.20	0.00	0.50
44.76	251.01	4.98	1.98	123.20	0.00	0.50
44.83	240.63	4.85	2.02	123.20	0.00	0.50
44.89	233.03	4.77	2.04	123.20	0.00	0.50
44.96	223.57	4.64	2.07	123.20	0.00	0.50
45.03	213.83	4.47	2.09	124.10	0.00	0.50
45.09	207.62	4.31	2.08	124.10	0.00	0.50
45.15	201.22	4.16	2.07	124.10	0.00	0.50
45.21	193.43	4.02	2.08	124.10	0.00	0.50
45.29	185.18	3.82	2.07	124.10	0.00	0.50
45.35	180.45	3.59	1.99	124.10	0.00	0.50
45.42	177.39	3.40	1.92	124.10	0.00	0.50
45.49	177.39	3.23	1.82	124.10	0.00	0.50
45.55	177.85	2.93	1.65	124.10	0.00	0.50
45.61	178.18	2.17	1.22	124.10	0.00	0.50
45.70	183.32	2.80	1.53	124.10	0.00	0.50
45.76	178.50	2.83	1.58	124.10	0.00	0.50
45.83	164.22	2.87	1.75	124.10	0.00	0.50
45.90	144.84	2.91	2.01	124.10	0.00	0.50

45.94	83.92	2.93	3.49	124.10	0.00	0.50
46.00	111.74	2.95	2.64	124.10	0.00	0.50
46.07	93.01	2.96	3.18	124.10	0.00	0.50
46.13	73.72	2.80	3.80	124.10	0.00	0.50
46.20	56.66	2.56	4.52	124.10	0.00	0.50
46.26	44.14	2.21	5.00	124.10	0.00	0.50
46.33	35.51	1.87	5.26	124.10	0.00	0.50
46.42	26.33	1.47	5.58	124.10	0.00	0.50
46.46	25.41	1.36	5.35	124.10	0.00	0.50
46.53	26.20	1.14	4.37	124.10	0.00	0.50
46.59	25.04	0.97	3.89	124.10	0.00	0.50
46.65	26.06	0.84	3.24	124.10	0.00	0.50
46.72	27.26	0.82	3.01	124.10	0.00	0.50
46.82	26.52	0.82	3.09	124.10	0.00	0.50
46.88	25.41	0.87	3.42	124.10	0.00	0.50
46.92	25.13	0.92	3.67	124.10	0.00	0.50
47.01	23.27	1.04	4.47	124.10	0.00	0.50
47.07	22.90	1.09	4.74	124.10	0.00	0.50
47.14	24.20	1.13	4.69	124.10	0.00	0.50
47.21	27.26	1.23	4.50	124.10	0.00	0.50
47.27	30.32	1.44	4.74	124.10	0.00	0.50
47.34	33.20	1.68	5.07	124.10	0.00	0.50
47.40	36.07	1.94	5.38	124.10	0.00	0.50
47.46	38.85	2.21	5.69	124.10	0.00	0.50
47.53	41.73	2.18	5.22	124.10	0.00	0.50
47.59	44.88	2.04	4.55	124.10	0.00	0.50
47.65	47.01	2.25	4.79	124.10	0.00	0.50
47.72	51.37	2.58	5.01	124.10	0.00	0.50
47.78	55.82	2.87	5.13	124.10	0.00	0.50
47.85	61.20	3.17	5.18	124.10	0.00	0.50
47.91	63.98	3.38	5.28	124.10	0.00	0.50
47.97	68.16	3.52	5.16	124.10	0.00	0.50
48.03	62.96	3.60	5.73	124.10	0.00	0.50
48.10	57.95	3.47	5.99	124.10	0.00	0.50
48.19	56.56	2.78	4.92	124.10	0.00	0.50
48.26	56.01	2.52	4.50	124.10	0.00	0.50
48.32	53.69	2.29	4.26	124.10	0.00	0.50
48.39	47.01	2.00	4.24	124.10	0.00	0.50
48.46	38.67	1.81	4.69	124.10	0.00	0.50
48.52	32.92	1.71	5.19	124.10	0.00	0.50
48.56	31.71	1.66	5.24	124.10	0.00	0.50
48.66	35.14	1.56	4.43	124.10	0.00	0.50
48.72	35.79	1.48	4.13	124.10	0.00	0.50
48.78	33.66	1.34	3.99	124.10	0.00	0.50
48.85	30.51	1.19	3.90	124.10	0.00	0.50
48.91	27.35	1.09	3.98	124.10	0.00	0.50
48.97	24.48	1.04	4.27	124.10	0.00	0.50
49.04	22.16	1.04	4.68	124.10	0.00	0.50
49.10	21.33	1.01	4.74	124.10	0.00	0.50
49.16	21.23	0.97	4.59	124.10	0.00	0.50

49.23	22.44	0.98	4.37	124.10	0.00	0.50
49.29	24.39	1.13	4.63	124.10	0.00	0.50
49.35	27.63	1.22	4.42	124.10	0.00	0.50
49.41	30.88	1.27	4.10	124.10	0.00	0.50
49.50	33.85	1.68	4.96	124.10	0.00	0.50
49.57	36.16	1.98	5.47	124.10	0.00	0.50
49.63	40.34	2.11	5.23	124.10	0.00	0.50
49.70	46.83	2.01	4.28	124.10	0.00	0.50
49.77	54.25	1.95	3.60	124.10	0.00	0.50
49.83	54.52	1.94	3.55	124.10	0.00	0.50
49.90	48.96	0.00	0.00	124.10	0.00	0.50
49.97	48.64	0.00	0.00	124.10	0.00	0.50

Modify Robertson method generates Fines from qc/fs. Inputted Fines are not relevant.

Output Results:

Settlement of Saturated Sands=2.47 in.
Settlement of Unsaturated Sands=0.43 in.
Total Settlement of Saturated and Unsaturated Sands=2.90 in.
Differential Settlement=1.450 to 1.914 in.

Depth ft	CRRm	CSRfs	F.S.	S_sat. in.	S_dry in.	S_all in.
0.00	2.00	0.63	5.00	2.47	0.43	2.90
0.05	2.08	0.63	5.00	2.47	0.43	2.90
0.10	2.08	0.63	5.00	2.47	0.43	2.90
0.15	2.08	0.63	5.00	2.47	0.43	2.90
0.20	2.08	0.63	5.00	2.47	0.43	2.90
0.25	2.08	0.63	5.00	2.47	0.43	2.90
0.30	2.08	0.63	5.00	2.47	0.43	2.90
0.35	2.08	0.63	5.00	2.47	0.43	2.90
0.40	2.08	0.63	5.00	2.47	0.43	2.90
0.45	2.08	0.63	5.00	2.47	0.43	2.90
0.50	2.08	0.63	5.00	2.47	0.43	2.90
0.55	2.08	0.63	5.00	2.47	0.43	2.90
0.60	2.08	0.63	5.00	2.47	0.43	2.90
0.65	2.08	0.63	5.00	2.47	0.43	2.90
0.70	2.08	0.63	5.00	2.47	0.43	2.90
0.75	2.08	0.63	5.00	2.47	0.43	2.90
0.80	1.89	0.63	5.00	2.47	0.43	2.90
0.85	1.50	0.63	5.00	2.47	0.43	2.90
0.90	1.24	0.63	5.00	2.47	0.43	2.90
0.95	1.06	0.63	5.00	2.47	0.43	2.90
1.00	0.94	0.63	5.00	2.47	0.43	2.90
1.05	0.77	0.63	5.00	2.47	0.43	2.90
1.10	0.64	0.63	5.00	2.47	0.43	2.90
1.15	0.55	0.63	5.00	2.47	0.43	2.90
1.20	0.49	0.63	5.00	2.47	0.43	2.90

1.25	0.44	0.63	5.00	2.47	0.43	2.90
1.30	0.41	0.63	5.00	2.47	0.43	2.90
1.35	0.39	0.63	5.00	2.47	0.43	2.90
1.40	0.36	0.63	5.00	2.47	0.43	2.90
1.45	0.30	0.63	5.00	2.47	0.43	2.90
1.50	0.27	0.63	5.00	2.47	0.43	2.90
1.55	0.27	0.63	5.00	2.47	0.43	2.90
1.60	0.26	0.63	5.00	2.47	0.43	2.90
1.65	0.22	0.63	5.00	2.47	0.43	2.90
1.70	0.21	0.63	5.00	2.47	0.43	2.90
1.75	0.22	0.63	5.00	2.47	0.43	2.90
1.80	0.25	0.63	5.00	2.47	0.43	2.90
1.85	0.27	0.63	5.00	2.47	0.43	2.90
1.90	0.23	0.63	5.00	2.47	0.43	2.90
1.95	0.24	0.63	5.00	2.47	0.43	2.90
2.00	0.21	0.63	5.00	2.47	0.43	2.90
2.05	0.17	0.63	5.00	2.47	0.43	2.90
2.10	0.17	0.63	5.00	2.47	0.43	2.89
2.15	0.13	0.63	5.00	2.47	0.42	2.89
2.20	0.14	0.63	5.00	2.47	0.42	2.89
2.25	0.15	0.63	5.00	2.47	0.42	2.89
2.30	0.20	0.63	5.00	2.47	0.42	2.89
2.35	0.23	0.63	5.00	2.47	0.42	2.89
2.40	0.22	0.63	5.00	2.47	0.42	2.89
2.45	0.18	0.63	5.00	2.47	0.42	2.89
2.50	0.18	0.63	5.00	2.47	0.42	2.89
2.55	0.17	0.63	5.00	2.47	0.42	2.88
2.60	0.17	0.63	5.00	2.47	0.41	2.88
2.65	0.17	0.63	5.00	2.47	0.41	2.88
2.70	0.14	0.63	5.00	2.47	0.41	2.88
2.75	0.12	0.63	5.00	2.47	0.40	2.87
2.80	0.13	0.63	5.00	2.47	0.39	2.86
2.85	0.15	0.63	5.00	2.47	0.38	2.85
2.90	0.17	0.63	5.00	2.47	0.37	2.84
2.95	0.16	0.63	5.00	2.47	0.36	2.83
3.00	0.16	0.63	5.00	2.47	0.36	2.83
3.05	0.15	0.63	5.00	2.47	0.35	2.82
3.10	0.14	0.63	5.00	2.47	0.34	2.81
3.15	0.15	0.63	5.00	2.47	0.33	2.80
3.20	0.14	0.63	5.00	2.47	0.32	2.79
3.25	0.14	0.63	5.00	2.47	0.31	2.78
3.30	0.13	0.63	5.00	2.47	0.30	2.77
3.35	0.13	0.63	5.00	2.47	0.29	2.76
3.40	0.13	0.63	5.00	2.47	0.28	2.74
3.45	0.12	0.63	5.00	2.47	0.26	2.73
3.50	0.12	0.63	5.00	2.47	0.25	2.72
3.55	0.12	0.63	5.00	2.47	0.24	2.71
3.60	0.12	0.63	5.00	2.47	0.23	2.70
3.65	0.11	0.63	5.00	2.47	0.22	2.69
3.70	2.00	0.63	5.00	2.47	0.21	2.68

3.75	2.00	0.63	5.00	2.47	0.21	2.68
3.80	0.12	0.63	5.00	2.47	0.21	2.68
3.85	0.13	0.63	5.00	2.47	0.20	2.66
3.90	0.13	0.63	5.00	2.47	0.19	2.65
3.95	0.13	0.63	5.00	2.47	0.17	2.64
4.00	0.13	0.63	5.00	2.47	0.16	2.63
4.05	0.13	0.63	5.00	2.47	0.15	2.62
4.10	0.13	0.63	5.00	2.47	0.14	2.61
4.15	0.12	0.63	5.00	2.47	0.13	2.60
4.20	0.12	0.63	5.00	2.47	0.12	2.59
4.25	0.12	0.62	5.00	2.47	0.11	2.58
4.30	0.13	0.62	5.00	2.47	0.10	2.57
4.35	0.14	0.62	5.00	2.47	0.09	2.56
4.40	0.15	0.62	5.00	2.47	0.09	2.56
4.45	0.16	0.62	5.00	2.47	0.09	2.56
4.50	0.18	0.62	5.00	2.47	0.09	2.56
4.55	0.19	0.62	5.00	2.47	0.09	2.56
4.60	0.19	0.62	5.00	2.47	0.09	2.56
4.65	0.14	0.62	5.00	2.47	0.08	2.55
4.70	0.13	0.62	5.00	2.47	0.08	2.55
4.75	0.13	0.62	5.00	2.47	0.07	2.54
4.80	0.13	0.62	5.00	2.47	0.06	2.52
4.85	0.13	0.62	5.00	2.47	0.04	2.51
4.90	0.14	0.62	5.00	2.47	0.03	2.50
4.95	0.14	0.62	5.00	2.47	0.01	2.48
5.00	0.15	0.62	0.24*	2.47	0.00	2.47
5.05	0.16	0.63	0.26*	2.46	0.00	2.46
5.10	0.17	0.63	0.28*	2.44	0.00	2.44
5.15	0.18	0.63	0.29*	2.43	0.00	2.43
5.20	0.19	0.64	0.30*	2.42	0.00	2.42
5.25	0.20	0.64	0.31*	2.40	0.00	2.40
5.30	0.21	0.64	0.32*	2.39	0.00	2.39
5.35	0.22	0.65	0.34*	2.38	0.00	2.38
5.40	0.23	0.65	0.35*	2.37	0.00	2.37
5.45	0.24	0.65	0.36*	2.36	0.00	2.36
5.50	0.25	0.66	0.38*	2.35	0.00	2.35
5.55	0.26	0.66	0.39*	2.34	0.00	2.34
5.60	0.27	0.66	0.40*	2.33	0.00	2.33
5.65	0.27	0.66	0.41*	2.31	0.00	2.31
5.70	0.27	0.67	0.41*	2.30	0.00	2.30
5.75	0.27	0.67	0.41*	2.29	0.00	2.29
5.80	0.27	0.67	0.40*	2.29	0.00	2.29
5.85	0.26	0.68	0.39*	2.28	0.00	2.28
5.90	0.26	0.68	0.38*	2.27	0.00	2.27
5.95	0.25	0.68	0.36*	2.26	0.00	2.26
6.00	0.24	0.69	0.35*	2.25	0.00	2.25
6.05	0.23	0.69	0.34*	2.24	0.00	2.24
6.10	0.23	0.69	0.33*	2.23	0.00	2.23
6.15	0.22	0.69	0.32*	2.22	0.00	2.22
6.20	0.22	0.70	0.31*	2.21	0.00	2.21

6.25	0.21	0.70	0.30*	2.20	0.00	2.20
6.30	0.20	0.70	0.29*	2.18	0.00	2.18
6.35	0.19	0.70	0.27*	2.17	0.00	2.17
6.40	0.18	0.71	0.26*	2.16	0.00	2.16
6.45	0.18	0.71	0.25*	2.15	0.00	2.15
6.50	0.18	0.71	0.25*	2.14	0.00	2.14
6.55	0.18	0.71	0.25*	2.13	0.00	2.13
6.60	0.18	0.72	0.26*	2.12	0.00	2.12
6.65	0.19	0.72	0.26*	2.10	0.00	2.10
6.70	0.19	0.72	0.26*	2.09	0.00	2.09
6.75	0.19	0.72	0.26*	2.08	0.00	2.08
6.80	0.19	0.73	0.27*	2.06	0.00	2.06
6.85	0.20	0.73	0.27*	2.05	0.00	2.05
6.90	0.20	0.73	0.28*	2.04	0.00	2.04
6.95	0.21	0.73	0.28*	2.03	0.00	2.03
7.00	0.20	0.74	0.28*	2.02	0.00	2.02
7.05	0.20	0.74	0.27*	2.00	0.00	2.00
7.10	0.20	0.74	0.27*	1.99	0.00	1.99
7.15	0.20	0.74	0.27*	1.98	0.00	1.98
7.20	0.22	0.75	0.29*	1.97	0.00	1.97
7.25	0.24	0.75	0.33*	1.96	0.00	1.96
7.30	0.31	0.75	0.41*	1.95	0.00	1.95
7.35	0.40	0.75	0.53*	1.95	0.00	1.95
7.40	0.45	0.75	0.59*	1.95	0.00	1.95
7.45	0.40	0.76	0.53*	1.95	0.00	1.95
7.50	0.36	0.76	0.48*	1.95	0.00	1.95
7.55	0.28	0.76	0.37*	1.95	0.00	1.95
7.60	0.18	0.76	0.24*	1.95	0.00	1.95
7.65	0.14	0.77	0.19*	1.94	0.00	1.94
7.70	0.13	0.77	0.18*	1.93	0.00	1.93
7.75	0.15	0.77	0.19*	1.91	0.00	1.91
7.80	0.16	0.77	0.21*	1.90	0.00	1.90
7.85	0.18	0.77	0.23*	1.89	0.00	1.89
7.90	0.20	0.78	0.25*	1.87	0.00	1.87
7.95	0.21	0.78	0.27*	1.86	0.00	1.86
8.00	0.20	0.78	0.26*	1.85	0.00	1.85
8.05	0.20	0.78	0.26*	1.84	0.00	1.84
8.10	0.20	0.78	0.25*	1.83	0.00	1.83
8.15	0.18	0.79	0.23*	1.82	0.00	1.82
8.20	0.17	0.79	0.22*	1.81	0.00	1.81
8.25	0.17	0.79	0.21*	1.79	0.00	1.79
8.30	0.16	0.79	0.20*	1.78	0.00	1.78
8.35	0.16	0.79	0.20*	1.77	0.00	1.77
8.40	0.18	0.80	0.22*	1.76	0.00	1.76
8.45	0.23	0.80	0.29*	1.75	0.00	1.75
8.50	0.37	0.80	0.47*	1.74	0.00	1.74
8.55	0.47	0.80	0.59*	1.74	0.00	1.74
8.60	2.00	0.80	5.00	1.74	0.00	1.74
8.65	2.00	0.81	5.00	1.74	0.00	1.74
8.70	2.00	0.81	5.00	1.74	0.00	1.74

8.75	0.58	0.81	0.71*	1.74	0.00	1.74
8.80	0.36	0.81	0.45*	1.74	0.00	1.74
8.85	0.29	0.81	0.36*	1.74	0.00	1.74
8.90	0.29	0.81	0.35*	1.74	0.00	1.74
8.95	0.30	0.82	0.37*	1.74	0.00	1.74
9.00	0.29	0.82	0.35*	1.73	0.00	1.73
9.05	0.27	0.82	0.33*	1.73	0.00	1.73
9.10	0.26	0.82	0.32*	1.72	0.00	1.72
9.15	0.26	0.82	0.31*	1.72	0.00	1.72
9.20	0.26	0.82	0.32*	1.71	0.00	1.71
9.25	0.26	0.83	0.32*	1.70	0.00	1.70
9.30	0.27	0.83	0.32*	1.69	0.00	1.69
9.35	0.27	0.83	0.33*	1.68	0.00	1.68
9.40	0.27	0.83	0.33*	1.68	0.00	1.68
9.45	0.28	0.83	0.34*	1.67	0.00	1.67
9.50	0.29	0.83	0.34*	1.66	0.00	1.66
9.55	0.29	0.84	0.35*	1.65	0.00	1.65
9.60	0.30	0.84	0.36*	1.64	0.00	1.64
9.65	0.30	0.84	0.36*	1.64	0.00	1.64
9.70	0.31	0.84	0.37*	1.63	0.00	1.63
9.75	0.31	0.84	0.37*	1.62	0.00	1.62
9.80	0.32	0.84	0.37*	1.62	0.00	1.62
9.85	0.31	0.85	0.37*	1.61	0.00	1.61
9.90	0.31	0.85	0.36*	1.61	0.00	1.61
9.95	0.30	0.85	0.35*	1.61	0.00	1.61
10.00	0.28	0.85	0.33*	1.61	0.00	1.61
10.05	0.25	0.85	0.29*	1.60	0.00	1.60
10.10	0.21	0.85	0.25*	1.60	0.00	1.60
10.15	0.18	0.85	0.21*	1.59	0.00	1.59
10.20	0.15	0.86	0.18*	1.58	0.00	1.58
10.25	0.14	0.86	0.16*	1.56	0.00	1.56
10.30	0.14	0.86	0.16*	1.55	0.00	1.55
10.35	0.14	0.86	0.17*	1.54	0.00	1.54
10.40	0.14	0.86	0.17*	1.53	0.00	1.53
10.45	0.14	0.86	0.16*	1.52	0.00	1.52
10.50	0.14	0.86	0.16*	1.50	0.00	1.50
10.55	0.13	0.86	0.15*	1.49	0.00	1.49
10.60	0.13	0.87	0.15*	1.48	0.00	1.48
10.65	0.13	0.87	0.15*	1.47	0.00	1.47
10.70	0.14	0.87	0.16*	1.45	0.00	1.45
10.75	0.16	0.87	0.18*	1.44	0.00	1.44
10.80	0.17	0.87	0.20*	1.43	0.00	1.43
10.85	0.18	0.87	0.21*	1.41	0.00	1.41
10.90	0.18	0.87	0.20*	1.40	0.00	1.40
10.95	0.17	0.87	0.20*	1.39	0.00	1.39
11.00	0.17	0.87	0.20*	1.38	0.00	1.38
11.05	0.16	0.88	0.19*	1.37	0.00	1.37
11.10	0.16	0.88	0.18*	1.35	0.00	1.35
11.15	0.15	0.88	0.17*	1.34	0.00	1.34
11.20	0.13	0.88	0.15*	1.33	0.00	1.33

11.25	0.13	0.88	0.14*	1.32	0.00	1.32
11.30	0.12	0.88	0.14*	1.30	0.00	1.30
11.35	0.13	0.88	0.14*	1.29	0.00	1.29
11.40	0.13	0.88	0.15*	1.27	0.00	1.27
11.45	0.14	0.88	0.16*	1.26	0.00	1.26
11.50	0.14	0.88	0.16*	1.25	0.00	1.25
11.55	0.15	0.89	0.17*	1.23	0.00	1.23
11.60	0.15	0.89	0.17*	1.22	0.00	1.22
11.65	0.16	0.89	0.18*	1.21	0.00	1.21
11.70	0.18	0.89	0.20*	1.20	0.00	1.20
11.75	0.20	0.89	0.22*	1.19	0.00	1.19
11.80	0.24	0.89	0.27*	1.18	0.00	1.18
11.85	0.32	0.89	0.36*	1.17	0.00	1.17
11.90	0.47	0.89	0.52*	1.17	0.00	1.17
11.95	0.54	0.89	0.60*	1.17	0.00	1.17
12.00	0.77	0.89	0.86*	1.17	0.00	1.17
12.05	0.69	0.90	0.77*	1.17	0.00	1.17
12.10	2.00	0.90	5.00	1.17	0.00	1.17
12.15	2.00	0.90	5.00	1.17	0.00	1.17
12.20	2.00	0.90	5.00	1.17	0.00	1.17
12.25	2.00	0.90	5.00	1.17	0.00	1.17
12.30	2.00	0.90	5.00	1.17	0.00	1.17
12.35	2.00	0.90	5.00	1.17	0.00	1.17
12.40	2.00	0.90	5.00	1.17	0.00	1.17
12.45	2.00	0.90	5.00	1.17	0.00	1.17
12.50	2.00	0.90	5.00	1.17	0.00	1.17
12.55	0.39	0.90	0.43*	1.17	0.00	1.17
12.60	0.22	0.91	0.24*	1.17	0.00	1.17
12.65	0.16	0.91	0.18*	1.16	0.00	1.16
12.70	0.15	0.91	0.17*	1.15	0.00	1.15
12.75	0.15	0.91	0.16*	1.14	0.00	1.14
12.80	0.16	0.91	0.18*	1.13	0.00	1.13
12.85	0.19	0.91	0.21*	1.12	0.00	1.12
12.90	0.27	0.91	0.30*	1.11	0.00	1.11
12.95	0.50	0.91	0.55*	1.11	0.00	1.11
13.00	2.00	0.91	5.00	1.11	0.00	1.11
13.05	2.00	0.91	5.00	1.11	0.00	1.11
13.10	2.00	0.91	5.00	1.11	0.00	1.11
13.15	2.00	0.91	5.00	1.11	0.00	1.11
13.20	2.00	0.92	5.00	1.11	0.00	1.11
13.25	2.00	0.92	5.00	1.11	0.00	1.11
13.30	2.00	0.92	5.00	1.11	0.00	1.11
13.35	2.00	0.92	5.00	1.11	0.00	1.11
13.40	2.00	0.92	5.00	1.11	0.00	1.11
13.45	2.00	0.92	5.00	1.11	0.00	1.11
13.50	2.00	0.92	5.00	1.11	0.00	1.11
13.55	2.00	0.92	5.00	1.11	0.00	1.11
13.60	2.00	0.92	5.00	1.11	0.00	1.11
13.65	2.00	0.92	5.00	1.11	0.00	1.11
13.70	2.00	0.92	5.00	1.11	0.00	1.11

13.75	2.00	0.92	5.00	1.11	0.00	1.11
13.80	2.00	0.92	5.00	1.11	0.00	1.11
13.85	2.00	0.92	5.00	1.11	0.00	1.11
13.90	2.00	0.93	5.00	1.11	0.00	1.11
13.95	2.00	0.93	5.00	1.11	0.00	1.11
14.00	2.00	0.93	5.00	1.11	0.00	1.11
14.05	2.00	0.93	5.00	1.11	0.00	1.11
14.10	2.00	0.93	5.00	1.11	0.00	1.11
14.15	2.00	0.93	5.00	1.11	0.00	1.11
14.20	2.00	0.93	5.00	1.11	0.00	1.11
14.25	2.00	0.93	5.00	1.11	0.00	1.11
14.30	2.00	0.93	5.00	1.11	0.00	1.11
14.35	2.00	0.93	5.00	1.11	0.00	1.11
14.40	2.00	0.93	5.00	1.11	0.00	1.11
14.45	2.00	0.93	5.00	1.11	0.00	1.11
14.50	2.00	0.93	5.00	1.11	0.00	1.11
14.55	2.00	0.93	5.00	1.11	0.00	1.11
14.60	2.00	0.93	5.00	1.11	0.00	1.11
14.65	2.00	0.94	5.00	1.11	0.00	1.11
14.70	2.00	0.94	5.00	1.11	0.00	1.11
14.75	2.00	0.94	5.00	1.11	0.00	1.11
14.80	2.00	0.94	5.00	1.11	0.00	1.11
14.85	2.00	0.94	5.00	1.11	0.00	1.11
14.90	2.00	0.94	5.00	1.11	0.00	1.11
14.95	2.00	0.94	5.00	1.11	0.00	1.11
15.00	2.00	0.94	5.00	1.11	0.00	1.11
15.05	2.00	0.94	5.00	1.11	0.00	1.11
15.10	2.00	0.94	5.00	1.11	0.00	1.11
15.15	2.00	0.94	5.00	1.11	0.00	1.11
15.20	2.00	0.94	5.00	1.11	0.00	1.11
15.25	2.00	0.94	5.00	1.11	0.00	1.11
15.30	2.00	0.94	5.00	1.11	0.00	1.11
15.35	2.00	0.94	5.00	1.11	0.00	1.11
15.40	2.00	0.95	5.00	1.11	0.00	1.11
15.45	2.00	0.95	5.00	1.11	0.00	1.11
15.50	2.00	0.95	5.00	1.11	0.00	1.11
15.55	2.00	0.95	5.00	1.11	0.00	1.11
15.60	2.00	0.95	5.00	1.11	0.00	1.11
15.65	2.00	0.95	5.00	1.11	0.00	1.11
15.70	2.00	0.95	5.00	1.11	0.00	1.11
15.75	2.00	0.95	5.00	1.11	0.00	1.11
15.80	2.00	0.95	5.00	1.11	0.00	1.11
15.85	2.00	0.95	5.00	1.11	0.00	1.11
15.90	2.00	0.95	5.00	1.11	0.00	1.11
15.95	2.00	0.95	5.00	1.11	0.00	1.11
16.00	2.00	0.95	5.00	1.11	0.00	1.11
16.05	2.00	0.95	5.00	1.11	0.00	1.11
16.10	2.00	0.96	5.00	1.11	0.00	1.11
16.15	2.00	0.96	5.00	1.11	0.00	1.11
16.20	2.00	0.96	5.00	1.11	0.00	1.11

16.25	2.00	0.96	5.00	1.11	0.00	1.11
16.30	2.00	0.96	5.00	1.11	0.00	1.11
16.35	2.00	0.96	5.00	1.11	0.00	1.11
16.40	2.00	0.96	5.00	1.11	0.00	1.11
16.45	2.00	0.96	5.00	1.11	0.00	1.11
16.50	2.00	0.96	5.00	1.11	0.00	1.11
16.55	2.00	0.96	5.00	1.11	0.00	1.11
16.60	2.00	0.96	5.00	1.11	0.00	1.11
16.65	2.00	0.96	5.00	1.11	0.00	1.11
16.70	2.00	0.96	5.00	1.11	0.00	1.11
16.75	2.00	0.96	5.00	1.11	0.00	1.11
16.80	2.00	0.96	5.00	1.11	0.00	1.11
16.85	2.00	0.97	5.00	1.11	0.00	1.11
16.90	2.00	0.97	5.00	1.11	0.00	1.11
16.95	2.00	0.97	5.00	1.11	0.00	1.11
17.00	2.00	0.97	5.00	1.11	0.00	1.11
17.05	2.00	0.97	5.00	1.11	0.00	1.11
17.10	2.00	0.97	5.00	1.11	0.00	1.11
17.15	2.00	0.97	5.00	1.11	0.00	1.11
17.20	2.00	0.97	5.00	1.11	0.00	1.11
17.25	0.66	0.97	0.68*	1.11	0.00	1.11
17.30	0.59	0.97	0.61*	1.11	0.00	1.11
17.35	0.68	0.97	0.70*	1.11	0.00	1.11
17.40	0.84	0.97	0.86*	1.11	0.00	1.11
17.45	0.92	0.97	0.95*	1.11	0.00	1.11
17.50	1.06	0.97	1.09	1.11	0.00	1.11
17.55	1.16	0.97	1.19	1.11	0.00	1.11
17.60	1.05	0.97	1.07	1.11	0.00	1.11
17.65	1.03	0.97	1.06	1.11	0.00	1.11
17.70	1.07	0.98	1.10	1.11	0.00	1.11
17.75	1.10	0.98	1.13	1.11	0.00	1.11
17.80	1.04	0.98	1.07	1.11	0.00	1.11
17.85	1.00	0.98	1.02	1.11	0.00	1.11
17.90	1.06	0.98	1.08	1.11	0.00	1.11
17.95	1.40	0.98	1.44	1.11	0.00	1.11
18.00	1.37	0.98	1.40	1.11	0.00	1.11
18.05	2.00	0.98	5.00	1.11	0.00	1.11
18.10	2.00	0.98	5.00	1.11	0.00	1.11
18.15	2.00	0.98	5.00	1.11	0.00	1.11
18.20	2.00	0.98	5.00	1.11	0.00	1.11
18.25	2.00	0.98	5.00	1.11	0.00	1.11
18.30	2.00	0.98	5.00	1.11	0.00	1.11
18.35	2.00	0.98	5.00	1.11	0.00	1.11
18.40	2.00	0.98	5.00	1.11	0.00	1.11
18.45	2.00	0.98	5.00	1.11	0.00	1.11
18.50	2.00	0.98	5.00	1.11	0.00	1.11
18.55	2.00	0.98	5.00	1.11	0.00	1.11
18.60	2.00	0.98	5.00	1.11	0.00	1.11
18.65	2.00	0.99	5.00	1.11	0.00	1.11
18.70	2.00	0.99	5.00	1.11	0.00	1.11

18.75	2.00	0.99	5.00	1.11	0.00	1.11
18.80	2.00	0.99	5.00	1.11	0.00	1.11
18.85	2.00	0.99	5.00	1.11	0.00	1.11
18.90	2.00	0.99	5.00	1.11	0.00	1.11
18.95	2.00	0.99	5.00	1.11	0.00	1.11
19.00	2.00	0.99	5.00	1.11	0.00	1.11
19.05	2.00	0.99	5.00	1.11	0.00	1.11
19.10	2.00	0.99	5.00	1.11	0.00	1.11
19.15	2.00	0.99	5.00	1.11	0.00	1.11
19.20	2.00	0.99	5.00	1.11	0.00	1.11
19.25	2.00	0.99	5.00	1.11	0.00	1.11
19.30	2.00	0.99	5.00	1.11	0.00	1.11
19.35	2.00	0.99	5.00	1.11	0.00	1.11
19.40	2.00	0.99	5.00	1.11	0.00	1.11
19.45	2.00	0.99	5.00	1.11	0.00	1.11
19.50	2.00	0.99	5.00	1.11	0.00	1.11
19.55	2.00	0.99	5.00	1.11	0.00	1.11
19.60	2.00	0.99	5.00	1.11	0.00	1.11
19.65	2.00	1.00	5.00	1.11	0.00	1.11
19.70	2.00	1.00	5.00	1.11	0.00	1.11
19.75	2.00	1.00	5.00	1.11	0.00	1.11
19.80	2.00	1.00	5.00	1.11	0.00	1.11
19.85	2.00	1.00	5.00	1.11	0.00	1.11
19.90	2.00	1.00	5.00	1.11	0.00	1.11
19.95	2.00	1.00	5.00	1.11	0.00	1.11
20.00	1.48	1.00	1.49	1.11	0.00	1.11
20.05	1.41	1.00	1.42	1.11	0.00	1.11
20.10	1.49	1.00	1.49	1.11	0.00	1.11
20.15	1.48	1.00	1.49	1.11	0.00	1.11
20.20	1.50	1.00	1.50	1.11	0.00	1.11
20.25	1.32	1.00	1.32	1.11	0.00	1.11
20.30	1.14	1.00	1.14	1.11	0.00	1.11
20.35	0.99	1.00	0.99*	1.11	0.00	1.11
20.40	0.87	1.00	0.87*	1.11	0.00	1.11
20.45	0.76	1.00	0.76*	1.11	0.00	1.11
20.50	0.65	1.00	0.65*	1.11	0.00	1.11
20.55	0.55	1.00	0.55*	1.11	0.00	1.11
20.60	0.44	1.00	0.44*	1.11	0.00	1.11
20.65	0.34	1.00	0.33*	1.11	0.00	1.11
20.70	0.26	1.00	0.26*	1.11	0.00	1.11
20.75	0.21	1.00	0.21*	1.10	0.00	1.10
20.80	0.18	1.00	0.18*	1.09	0.00	1.09
20.85	0.17	1.00	0.17*	1.08	0.00	1.08
20.90	0.17	1.00	0.17*	1.07	0.00	1.07
20.95	0.17	1.00	0.17*	1.05	0.00	1.05
21.00	0.17	1.00	0.17*	1.04	0.00	1.04
21.05	0.18	1.00	0.18*	1.03	0.00	1.03
21.10	0.19	1.00	0.19*	1.02	0.00	1.02
21.15	0.20	1.01	0.20*	1.01	0.00	1.01
21.20	0.22	1.01	0.22*	1.00	0.00	1.00

21.25	0.23	1.01	0.23*	0.99	0.00	0.99
21.30	0.25	1.01	0.25*	0.98	0.00	0.98
21.35	0.27	1.01	0.27*	0.97	0.00	0.97
21.40	0.28	1.01	0.28*	0.96	0.00	0.96
21.45	0.28	1.01	0.28*	0.96	0.00	0.96
21.50	0.28	1.01	0.28*	0.95	0.00	0.95
21.55	0.27	1.01	0.26*	0.94	0.00	0.94
21.60	0.24	1.01	0.24*	0.94	0.00	0.94
21.65	0.21	1.01	0.20*	0.93	0.00	0.93
21.70	0.18	1.01	0.18*	0.92	0.00	0.92
21.75	0.17	1.01	0.17*	0.90	0.00	0.90
21.80	0.16	1.01	0.16*	0.89	0.00	0.89
21.85	0.16	1.01	0.16*	0.88	0.00	0.88
21.90	0.16	1.01	0.16*	0.87	0.00	0.87
21.95	0.16	1.01	0.16*	0.85	0.00	0.85
22.00	0.16	1.01	0.16*	0.84	0.00	0.84
22.05	0.17	1.01	0.17*	0.83	0.00	0.83
22.10	0.19	1.01	0.18*	0.82	0.00	0.82
22.15	0.22	1.01	0.21*	0.80	0.00	0.80
22.20	0.29	1.01	0.28*	0.80	0.00	0.80
22.25	0.51	1.01	0.50*	0.79	0.00	0.79
22.30	0.94	1.01	0.93*	0.79	0.00	0.79
22.35	2.00	1.01	5.00	0.79	0.00	0.79
22.40	2.00	1.01	5.00	0.79	0.00	0.79
22.45	2.00	1.01	5.00	0.79	0.00	0.79
22.50	2.00	1.01	5.00	0.79	0.00	0.79
22.55	2.00	1.01	5.00	0.79	0.00	0.79
22.60	2.00	1.01	5.00	0.79	0.00	0.79
22.65	2.00	1.01	5.00	0.79	0.00	0.79
22.70	2.00	1.01	5.00	0.79	0.00	0.79
22.75	2.00	1.01	5.00	0.79	0.00	0.79
22.80	2.00	1.01	5.00	0.79	0.00	0.79
22.85	2.00	1.01	5.00	0.79	0.00	0.79
22.90	2.00	1.01	5.00	0.79	0.00	0.79
22.95	2.00	1.01	5.00	0.79	0.00	0.79
23.00	2.00	1.01	5.00	0.79	0.00	0.79
23.05	2.00	1.01	5.00	0.79	0.00	0.79
23.10	2.00	1.01	5.00	0.79	0.00	0.79
23.15	2.00	1.01	5.00	0.79	0.00	0.79
23.20	2.00	1.02	5.00	0.79	0.00	0.79
23.25	2.00	1.02	5.00	0.79	0.00	0.79
23.30	2.00	1.02	5.00	0.79	0.00	0.79
23.35	2.00	1.02	5.00	0.79	0.00	0.79
23.40	2.00	1.02	5.00	0.79	0.00	0.79
23.45	2.00	1.02	5.00	0.79	0.00	0.79
23.50	2.00	1.02	5.00	0.79	0.00	0.79
23.55	2.00	1.02	5.00	0.79	0.00	0.79
23.60	2.00	1.02	5.00	0.79	0.00	0.79
23.65	2.00	1.02	5.00	0.79	0.00	0.79
23.70	2.00	1.02	5.00	0.79	0.00	0.79

23.75	2.00	1.02	5.00	0.79	0.00	0.79
23.80	2.00	1.02	5.00	0.79	0.00	0.79
23.85	2.00	1.02	5.00	0.79	0.00	0.79
23.90	2.00	1.02	5.00	0.79	0.00	0.79
23.95	2.00	1.02	5.00	0.79	0.00	0.79
24.00	2.00	1.02	5.00	0.79	0.00	0.79
24.05	2.00	1.02	5.00	0.79	0.00	0.79
24.10	2.00	1.02	5.00	0.79	0.00	0.79
24.15	2.00	1.02	5.00	0.79	0.00	0.79
24.20	2.00	1.02	5.00	0.79	0.00	0.79
24.25	2.00	1.02	5.00	0.79	0.00	0.79
24.30	2.00	1.02	5.00	0.79	0.00	0.79
24.35	2.00	1.02	5.00	0.79	0.00	0.79
24.40	0.78	1.02	0.76*	0.79	0.00	0.79
24.45	0.37	1.02	0.36*	0.79	0.00	0.79
24.50	0.32	1.02	0.31*	0.79	0.00	0.79
24.55	0.37	1.02	0.36*	0.79	0.00	0.79
24.60	0.48	1.02	0.47*	0.78	0.00	0.78
24.65	0.61	1.02	0.59*	0.78	0.00	0.78
24.70	0.71	1.02	0.70*	0.78	0.00	0.78
24.75	0.77	1.02	0.76*	0.78	0.00	0.78
24.80	0.78	1.02	0.77*	0.78	0.00	0.78
24.85	0.74	1.02	0.72*	0.78	0.00	0.78
24.90	0.68	1.02	0.66*	0.78	0.00	0.78
24.95	0.62	1.02	0.60*	0.78	0.00	0.78
25.00	0.56	1.02	0.55*	0.78	0.00	0.78
25.05	0.52	1.02	0.51*	0.78	0.00	0.78
25.10	0.48	1.02	0.47*	0.78	0.00	0.78
25.15	0.43	1.02	0.42*	0.78	0.00	0.78
25.20	0.38	1.02	0.37*	0.77	0.00	0.77
25.25	0.35	1.02	0.34*	0.76	0.00	0.76
25.30	0.32	1.02	0.31*	0.76	0.00	0.76
25.35	0.30	1.02	0.29*	0.75	0.00	0.75
25.40	0.29	1.02	0.28*	0.74	0.00	0.74
25.45	0.27	1.02	0.27*	0.73	0.00	0.73
25.50	0.26	1.02	0.25*	0.72	0.00	0.72
25.55	0.25	1.02	0.24*	0.71	0.00	0.71
25.60	0.24	1.02	0.23*	0.70	0.00	0.70
25.65	0.22	1.02	0.21*	0.68	0.00	0.68
25.70	0.20	1.03	0.20*	0.67	0.00	0.67
25.75	0.19	1.03	0.18*	0.66	0.00	0.66
25.80	0.18	1.03	0.18*	0.65	0.00	0.65
25.85	0.18	1.03	0.18*	0.64	0.00	0.64
25.90	0.18	1.03	0.17*	0.62	0.00	0.62
25.95	0.18	1.03	0.18*	0.61	0.00	0.61
26.00	0.19	1.03	0.18*	0.60	0.00	0.60
26.05	0.20	1.03	0.20*	0.59	0.00	0.59
26.10	0.24	1.03	0.23*	0.58	0.00	0.58
26.15	0.36	1.03	0.35*	0.57	0.00	0.57
26.20	2.00	1.03	5.00	0.57	0.00	0.57

26.25	2.00	1.03	5.00	0.57	0.00	0.57
26.30	2.00	1.03	5.00	0.57	0.00	0.57
26.35	2.00	1.03	5.00	0.57	0.00	0.57
26.40	2.00	1.03	5.00	0.57	0.00	0.57
26.45	2.00	1.03	5.00	0.57	0.00	0.57
26.50	2.00	1.03	5.00	0.57	0.00	0.57
26.55	2.00	1.03	5.00	0.57	0.00	0.57
26.60	2.00	1.03	5.00	0.57	0.00	0.57
26.65	2.00	1.03	5.00	0.57	0.00	0.57
26.70	2.00	1.03	5.00	0.57	0.00	0.57
26.75	2.00	1.03	5.00	0.57	0.00	0.57
26.80	2.00	1.03	5.00	0.57	0.00	0.57
26.85	2.00	1.03	5.00	0.57	0.00	0.57
26.90	2.00	1.03	5.00	0.57	0.00	0.57
26.95	2.00	1.03	5.00	0.57	0.00	0.57
27.00	2.00	1.03	5.00	0.57	0.00	0.57
27.05	2.00	1.03	5.00	0.57	0.00	0.57
27.10	2.00	1.03	5.00	0.57	0.00	0.57
27.15	2.00	1.03	5.00	0.57	0.00	0.57
27.20	2.00	1.03	5.00	0.57	0.00	0.57
27.25	2.00	1.03	5.00	0.57	0.00	0.57
27.30	2.00	1.03	5.00	0.57	0.00	0.57
27.35	2.00	1.03	5.00	0.57	0.00	0.57
27.40	2.00	1.03	5.00	0.57	0.00	0.57
27.45	2.00	1.03	5.00	0.57	0.00	0.57
27.50	2.00	1.03	5.00	0.57	0.00	0.57
27.55	2.00	1.03	5.00	0.57	0.00	0.57
27.60	2.00	1.03	5.00	0.57	0.00	0.57
27.65	2.00	1.03	5.00	0.57	0.00	0.57
27.70	2.00	1.03	5.00	0.57	0.00	0.57
27.75	2.00	1.03	5.00	0.57	0.00	0.57
27.80	2.00	1.03	5.00	0.57	0.00	0.57
27.85	2.00	1.03	5.00	0.57	0.00	0.57
27.90	2.00	1.03	5.00	0.57	0.00	0.57
27.95	2.00	1.03	5.00	0.57	0.00	0.57
28.00	2.00	1.03	5.00	0.57	0.00	0.57
28.05	2.00	1.03	5.00	0.57	0.00	0.57
28.10	2.00	1.03	5.00	0.57	0.00	0.57
28.15	2.00	1.03	5.00	0.57	0.00	0.57
28.20	2.00	1.03	5.00	0.57	0.00	0.57
28.25	2.00	1.03	5.00	0.57	0.00	0.57
28.30	2.00	1.03	5.00	0.57	0.00	0.57
28.35	2.00	1.04	5.00	0.57	0.00	0.57
28.40	2.00	1.04	5.00	0.57	0.00	0.57
28.45	2.00	1.04	5.00	0.57	0.00	0.57
28.50	2.00	1.04	5.00	0.57	0.00	0.57
28.55	2.00	1.04	5.00	0.57	0.00	0.57
28.60	2.00	1.04	5.00	0.57	0.00	0.57
28.65	2.00	1.04	5.00	0.57	0.00	0.57
28.70	2.00	1.04	5.00	0.57	0.00	0.57

28.75	2.00	1.04	5.00	0.57	0.00	0.57
28.80	2.00	1.04	5.00	0.57	0.00	0.57
28.85	2.00	1.04	5.00	0.57	0.00	0.57
28.90	2.00	1.04	5.00	0.57	0.00	0.57
28.95	2.00	1.04	5.00	0.57	0.00	0.57
29.00	2.00	1.04	5.00	0.57	0.00	0.57
29.05	2.00	1.04	5.00	0.57	0.00	0.57
29.10	2.00	1.04	5.00	0.57	0.00	0.57
29.15	2.00	1.04	5.00	0.57	0.00	0.57
29.20	2.00	1.04	5.00	0.57	0.00	0.57
29.25	2.00	1.04	5.00	0.57	0.00	0.57
29.30	2.00	1.04	5.00	0.57	0.00	0.57
29.35	2.00	1.04	5.00	0.57	0.00	0.57
29.40	2.00	1.04	5.00	0.57	0.00	0.57
29.45	2.00	1.04	5.00	0.57	0.00	0.57
29.50	2.00	1.04	5.00	0.57	0.00	0.57
29.55	2.00	1.04	5.00	0.57	0.00	0.57
29.60	2.00	1.04	5.00	0.57	0.00	0.57
29.65	2.00	1.04	5.00	0.57	0.00	0.57
29.70	2.00	1.04	5.00	0.57	0.00	0.57
29.75	2.00	1.04	5.00	0.57	0.00	0.57
29.80	2.00	1.04	5.00	0.57	0.00	0.57
29.85	2.00	1.04	5.00	0.57	0.00	0.57
29.90	2.00	1.04	5.00	0.57	0.00	0.57
29.95	2.00	1.04	5.00	0.57	0.00	0.57
30.00	2.00	1.04	5.00	0.57	0.00	0.57
30.05	2.00	1.04	5.00	0.57	0.00	0.57
30.10	2.00	1.04	5.00	0.57	0.00	0.57
30.15	2.00	1.04	5.00	0.57	0.00	0.57
30.20	2.00	1.04	5.00	0.57	0.00	0.57
30.25	2.00	1.04	5.00	0.57	0.00	0.57
30.30	2.00	1.04	5.00	0.57	0.00	0.57
30.35	2.00	1.04	5.00	0.57	0.00	0.57
30.40	2.00	1.04	5.00	0.57	0.00	0.57
30.45	2.00	1.04	5.00	0.57	0.00	0.57
30.50	2.00	1.04	5.00	0.57	0.00	0.57
30.55	2.00	1.04	5.00	0.57	0.00	0.57
30.60	2.00	1.04	5.00	0.57	0.00	0.57
30.65	2.00	1.04	5.00	0.57	0.00	0.57
30.70	2.00	1.04	5.00	0.57	0.00	0.57
30.75	2.00	1.04	5.00	0.57	0.00	0.57
30.80	2.00	1.04	5.00	0.57	0.00	0.57
30.85	2.00	1.04	5.00	0.57	0.00	0.57
30.90	2.00	1.04	5.00	0.57	0.00	0.57
30.95	2.00	1.03	5.00	0.57	0.00	0.57
31.00	2.00	1.03	5.00	0.57	0.00	0.57
31.05	2.00	1.03	5.00	0.57	0.00	0.57
31.10	2.00	1.03	5.00	0.57	0.00	0.57
31.15	2.00	1.03	5.00	0.57	0.00	0.57
31.20	2.00	1.03	5.00	0.57	0.00	0.57

31.25	2.00	1.03	5.00	0.57	0.00	0.57
31.30	2.00	1.03	5.00	0.57	0.00	0.57
31.35	2.00	1.03	5.00	0.57	0.00	0.57
31.40	2.00	1.03	5.00	0.57	0.00	0.57
31.45	2.00	1.03	5.00	0.57	0.00	0.57
31.50	2.00	1.03	5.00	0.57	0.00	0.57
31.55	2.00	1.03	5.00	0.57	0.00	0.57
31.60	2.00	1.03	5.00	0.57	0.00	0.57
31.65	2.00	1.03	5.00	0.57	0.00	0.57
31.70	2.00	1.03	5.00	0.57	0.00	0.57
31.75	2.00	1.03	5.00	0.57	0.00	0.57
31.80	2.00	1.03	5.00	0.57	0.00	0.57
31.85	2.00	1.03	5.00	0.57	0.00	0.57
31.90	2.00	1.03	5.00	0.57	0.00	0.57
31.95	2.00	1.03	5.00	0.57	0.00	0.57
32.00	2.00	1.03	5.00	0.57	0.00	0.57
32.05	2.00	1.03	5.00	0.57	0.00	0.57
32.10	2.00	1.03	5.00	0.57	0.00	0.57
32.15	2.00	1.03	5.00	0.57	0.00	0.57
32.20	2.00	1.03	5.00	0.57	0.00	0.57
32.25	2.00	1.03	5.00	0.57	0.00	0.57
32.30	2.00	1.03	5.00	0.57	0.00	0.57
32.35	2.00	1.03	5.00	0.57	0.00	0.57
32.40	2.00	1.03	5.00	0.57	0.00	0.57
32.45	2.00	1.03	5.00	0.57	0.00	0.57
32.50	2.00	1.03	5.00	0.57	0.00	0.57
32.55	2.00	1.03	5.00	0.57	0.00	0.57
32.60	2.00	1.03	5.00	0.57	0.00	0.57
32.65	2.00	1.03	5.00	0.57	0.00	0.57
32.70	2.00	1.03	5.00	0.57	0.00	0.57
32.75	2.00	1.03	5.00	0.57	0.00	0.57
32.80	2.00	1.03	5.00	0.57	0.00	0.57
32.85	2.00	1.02	5.00	0.57	0.00	0.57
32.90	2.00	1.02	5.00	0.57	0.00	0.57
32.95	2.00	1.02	5.00	0.57	0.00	0.57
33.00	2.00	1.02	5.00	0.57	0.00	0.57
33.05	2.00	1.02	5.00	0.57	0.00	0.57
33.10	2.00	1.02	5.00	0.57	0.00	0.57
33.15	2.00	1.02	5.00	0.57	0.00	0.57
33.20	2.00	1.02	5.00	0.57	0.00	0.57
33.25	2.00	1.02	5.00	0.57	0.00	0.57
33.30	2.00	1.02	5.00	0.57	0.00	0.57
33.35	2.00	1.02	5.00	0.57	0.00	0.57
33.40	2.00	1.02	5.00	0.57	0.00	0.57
33.45	2.00	1.02	5.00	0.57	0.00	0.57
33.50	2.00	1.02	5.00	0.57	0.00	0.57
33.55	2.00	1.02	5.00	0.57	0.00	0.57
33.60	2.00	1.02	5.00	0.57	0.00	0.57
33.65	2.00	1.02	5.00	0.57	0.00	0.57
33.70	2.00	1.02	5.00	0.57	0.00	0.57

33.75	2.00	1.02	5.00	0.57	0.00	0.57
33.80	2.00	1.02	5.00	0.57	0.00	0.57
33.85	2.00	1.02	5.00	0.57	0.00	0.57
33.90	2.00	1.02	5.00	0.57	0.00	0.57
33.95	2.00	1.02	5.00	0.57	0.00	0.57
34.00	2.00	1.02	5.00	0.57	0.00	0.57
34.05	2.00	1.02	5.00	0.57	0.00	0.57
34.10	2.00	1.02	5.00	0.57	0.00	0.57
34.15	2.00	1.02	5.00	0.57	0.00	0.57
34.20	2.00	1.02	5.00	0.57	0.00	0.57
34.25	2.00	1.02	5.00	0.57	0.00	0.57
34.30	2.00	1.02	5.00	0.57	0.00	0.57
34.35	2.00	1.02	5.00	0.57	0.00	0.57
34.40	2.00	1.02	5.00	0.57	0.00	0.57
34.45	2.00	1.02	5.00	0.57	0.00	0.57
34.50	2.00	1.02	5.00	0.57	0.00	0.57
34.55	2.00	1.01	5.00	0.57	0.00	0.57
34.60	2.00	1.01	5.00	0.57	0.00	0.57
34.65	2.00	1.01	5.00	0.57	0.00	0.57
34.70	2.00	1.01	5.00	0.57	0.00	0.57
34.75	2.00	1.01	5.00	0.57	0.00	0.57
34.80	2.00	1.01	5.00	0.57	0.00	0.57
34.85	2.00	1.01	5.00	0.57	0.00	0.57
34.90	2.00	1.01	5.00	0.57	0.00	0.57
34.95	2.00	1.01	5.00	0.57	0.00	0.57
35.00	2.00	1.01	5.00	0.57	0.00	0.57
35.05	0.70	1.01	0.69*	0.57	0.00	0.57
35.10	0.56	1.01	0.56*	0.57	0.00	0.57
35.15	0.48	1.01	0.47*	0.57	0.00	0.57
35.20	0.43	1.01	0.43*	0.57	0.00	0.57
35.25	0.40	1.01	0.40*	0.57	0.00	0.57
35.30	0.39	1.01	0.38*	0.57	0.00	0.57
35.35	0.37	1.01	0.37*	0.57	0.00	0.57
35.40	0.36	1.01	0.36*	0.57	0.00	0.57
35.45	0.36	1.01	0.35*	0.57	0.00	0.57
35.50	0.35	1.01	0.34*	0.57	0.00	0.57
35.55	0.33	1.01	0.32*	0.57	0.00	0.57
35.60	0.31	1.01	0.31*	0.57	0.00	0.57
35.65	0.30	1.01	0.29*	0.56	0.00	0.56
35.70	0.29	1.01	0.29*	0.55	0.00	0.55
35.75	0.29	1.01	0.29*	0.54	0.00	0.54
35.80	0.30	1.01	0.29*	0.53	0.00	0.53
35.85	0.30	1.01	0.30*	0.52	0.00	0.52
35.90	0.30	1.01	0.30*	0.51	0.00	0.51
35.95	0.31	1.01	0.31*	0.50	0.00	0.50
36.00	0.32	1.01	0.32*	0.49	0.00	0.49
36.05	0.33	1.01	0.32*	0.48	0.00	0.48
36.10	0.33	1.01	0.33*	0.47	0.00	0.47
36.15	0.33	1.01	0.33*	0.46	0.00	0.46
36.20	0.33	1.00	0.33*	0.46	0.00	0.46

36.25	0.33	1.00	0.33*	0.45	0.00	0.45
36.30	0.34	1.00	0.34*	0.44	0.00	0.44
36.35	0.34	1.00	0.34*	0.43	0.00	0.43
36.40	0.34	1.00	0.34*	0.42	0.00	0.42
36.45	0.34	1.00	0.34*	0.41	0.00	0.41
36.50	0.33	1.00	0.33*	0.40	0.00	0.40
36.55	0.33	1.00	0.33*	0.40	0.00	0.40
36.60	0.32	1.00	0.32*	0.39	0.00	0.39
36.65	0.32	1.00	0.32*	0.38	0.00	0.38
36.70	0.32	1.00	0.32*	0.37	0.00	0.37
36.75	0.32	1.00	0.31*	0.36	0.00	0.36
36.80	0.31	1.00	0.31*	0.35	0.00	0.35
36.85	0.31	1.00	0.31*	0.35	0.00	0.35
36.90	0.30	1.00	0.30*	0.34	0.00	0.34
36.95	0.29	1.00	0.29*	0.33	0.00	0.33
37.00	0.28	1.00	0.28*	0.32	0.00	0.32
37.05	0.27	1.00	0.27*	0.31	0.00	0.31
37.10	0.26	1.00	0.26*	0.30	0.00	0.30
37.15	0.24	1.00	0.25*	0.29	0.00	0.29
37.20	0.24	1.00	0.24*	0.28	0.00	0.28
37.25	0.23	1.00	0.23*	0.27	0.00	0.27
37.30	0.23	1.00	0.23*	0.26	0.00	0.26
37.35	0.23	1.00	0.23*	0.25	0.00	0.25
37.40	0.23	1.00	0.23*	0.24	0.00	0.24
37.45	0.23	1.00	0.23*	0.23	0.00	0.23
37.50	0.24	1.00	0.24*	0.23	0.00	0.23
37.55	0.25	1.00	0.25*	0.22	0.00	0.22
37.60	0.29	1.00	0.29*	0.21	0.00	0.21
37.65	0.39	1.00	0.39*	0.21	0.00	0.21
37.70	2.00	1.00	5.00	0.21	0.00	0.21
37.75	2.00	0.99	5.00	0.21	0.00	0.21
37.80	2.00	0.99	5.00	0.21	0.00	0.21
37.85	2.00	0.99	5.00	0.21	0.00	0.21
37.90	2.00	0.99	5.00	0.21	0.00	0.21
37.95	2.00	0.99	5.00	0.21	0.00	0.21
38.00	2.00	0.99	5.00	0.21	0.00	0.21
38.05	2.00	0.99	5.00	0.21	0.00	0.21
38.10	2.00	0.99	5.00	0.21	0.00	0.21
38.15	2.00	0.99	5.00	0.21	0.00	0.21
38.20	2.00	0.99	5.00	0.21	0.00	0.21
38.25	2.00	0.99	5.00	0.21	0.00	0.21
38.30	2.00	0.99	5.00	0.21	0.00	0.21
38.35	2.00	0.99	5.00	0.21	0.00	0.21
38.40	2.00	0.99	5.00	0.21	0.00	0.21
38.45	2.00	0.99	5.00	0.21	0.00	0.21
38.50	2.00	0.99	5.00	0.21	0.00	0.21
38.55	2.00	0.99	5.00	0.21	0.00	0.21
38.60	2.00	0.99	5.00	0.21	0.00	0.21
38.65	2.00	0.99	5.00	0.21	0.00	0.21
38.70	2.00	0.99	5.00	0.21	0.00	0.21

38.75	2.00	0.99	5.00	0.21	0.00	0.21
38.80	2.00	0.99	5.00	0.21	0.00	0.21
38.85	2.00	0.99	5.00	0.21	0.00	0.21
38.90	2.00	0.99	5.00	0.21	0.00	0.21
38.95	2.00	0.99	5.00	0.21	0.00	0.21
39.00	2.00	0.99	5.00	0.21	0.00	0.21
39.05	2.00	0.99	5.00	0.21	0.00	0.21
39.10	2.00	0.99	5.00	0.21	0.00	0.21
39.15	2.00	0.99	5.00	0.21	0.00	0.21
39.20	2.00	0.99	5.00	0.21	0.00	0.21
39.25	2.00	0.98	5.00	0.21	0.00	0.21
39.30	2.00	0.98	5.00	0.21	0.00	0.21
39.35	2.00	0.98	5.00	0.21	0.00	0.21
39.40	2.00	0.98	5.00	0.21	0.00	0.21
39.45	2.00	0.98	5.00	0.21	0.00	0.21
39.50	2.00	0.98	5.00	0.21	0.00	0.21
39.55	2.00	0.98	5.00	0.21	0.00	0.21
39.60	2.00	0.98	5.00	0.21	0.00	0.21
39.65	2.00	0.98	5.00	0.21	0.00	0.21
39.70	2.00	0.98	5.00	0.21	0.00	0.21
39.75	2.00	0.98	5.00	0.21	0.00	0.21
39.80	2.00	0.98	5.00	0.21	0.00	0.21
39.85	0.40	0.98	0.41*	0.21	0.00	0.21
39.90	0.31	0.98	0.32*	0.21	0.00	0.21
39.95	0.24	0.98	0.25*	0.21	0.00	0.21
40.00	0.20	0.98	0.20*	0.20	0.00	0.20
40.05	0.18	0.98	0.18*	0.19	0.00	0.19
40.10	0.16	0.98	0.17*	0.18	0.00	0.18
40.15	0.16	0.98	0.16*	0.17	0.00	0.17
40.20	0.16	0.98	0.16*	0.15	0.00	0.15
40.25	0.17	0.98	0.17*	0.14	0.00	0.14
40.30	0.18	0.98	0.19*	0.13	0.00	0.13
40.35	0.21	0.98	0.21*	0.12	0.00	0.12
40.40	0.25	0.98	0.25*	0.11	0.00	0.11
40.45	0.31	0.98	0.31*	0.10	0.00	0.10
40.50	0.41	0.98	0.42*	0.10	0.00	0.10
40.55	0.53	0.98	0.54*	0.10	0.00	0.10
40.60	0.55	0.98	0.56*	0.10	0.00	0.10
40.65	0.46	0.98	0.47*	0.10	0.00	0.10
40.70	0.37	0.97	0.38*	0.10	0.00	0.10
40.75	0.35	0.97	0.36*	0.10	0.00	0.10
40.80	0.36	0.97	0.36*	0.09	0.00	0.09
40.85	0.36	0.97	0.37*	0.09	0.00	0.09
40.90	0.37	0.97	0.38*	0.08	0.00	0.08
40.95	0.38	0.97	0.39*	0.07	0.00	0.07
41.00	0.40	0.97	0.41*	0.07	0.00	0.07
41.05	0.41	0.97	0.42*	0.06	0.00	0.06
41.10	0.41	0.97	0.42*	0.05	0.00	0.05
41.15	0.40	0.97	0.42*	0.05	0.00	0.05
41.20	0.39	0.97	0.40*	0.04	0.00	0.04

41.25	0.41	0.97	0.42*	0.03	0.00	0.03
41.30	0.43	0.97	0.44*	0.03	0.00	0.03
41.35	0.44	0.97	0.45*	0.02	0.00	0.02
41.40	0.44	0.97	0.45*	0.02	0.00	0.02
41.45	0.45	0.97	0.47*	0.02	0.00	0.02
41.50	0.47	0.97	0.49*	0.02	0.00	0.02
41.55	0.49	0.97	0.51*	0.02	0.00	0.02
41.60	0.51	0.97	0.52*	0.02	0.00	0.02
41.65	0.52	0.97	0.54*	0.02	0.00	0.02
41.70	0.56	0.97	0.58*	0.02	0.00	0.02
41.75	0.64	0.97	0.66*	0.02	0.00	0.02
41.80	0.73	0.97	0.76*	0.02	0.00	0.02
41.85	0.83	0.97	0.86*	0.02	0.00	0.02
41.90	0.89	0.97	0.92*	0.02	0.00	0.02
41.95	0.91	0.97	0.94*	0.02	0.00	0.02
42.00	0.94	0.97	0.98*	0.02	0.00	0.02
42.05	0.99	0.97	1.02	0.02	0.00	0.02
42.10	1.04	0.96	1.08	0.02	0.00	0.02
42.15	1.09	0.96	1.13	0.02	0.00	0.02
42.20	1.15	0.96	1.19	0.02	0.00	0.02
42.25	1.19	0.96	1.23	0.02	0.00	0.02
42.30	1.23	0.96	1.28	0.02	0.00	0.02
42.35	1.27	0.96	1.31	0.02	0.00	0.02
42.40	1.30	0.96	1.35	0.02	0.00	0.02
42.45	1.31	0.96	1.37	0.02	0.00	0.02
42.50	1.34	0.96	1.40	0.02	0.00	0.02
42.55	1.38	0.96	1.44	0.02	0.00	0.02
42.60	1.44	0.96	1.50	0.02	0.00	0.02
42.65	1.51	0.96	1.57	0.02	0.00	0.02
42.70	1.58	0.96	1.64	0.02	0.00	0.02
42.75	1.64	0.96	1.71	0.02	0.00	0.02
42.80	1.70	0.96	1.77	0.02	0.00	0.02
42.85	1.73	0.96	1.80	0.02	0.00	0.02
42.90	1.77	0.96	1.84	0.02	0.00	0.02
42.95	1.79	0.96	1.87	0.02	0.00	0.02
43.00	1.79	0.96	1.87	0.02	0.00	0.02
43.05	1.77	0.96	1.85	0.02	0.00	0.02
43.10	1.73	0.96	1.81	0.02	0.00	0.02
43.15	1.70	0.96	1.77	0.02	0.00	0.02
43.20	1.65	0.96	1.72	0.02	0.00	0.02
43.25	1.59	0.96	1.66	0.02	0.00	0.02
43.30	1.54	0.96	1.61	0.02	0.00	0.02
43.35	1.46	0.96	1.53	0.02	0.00	0.02
43.40	1.34	0.96	1.41	0.02	0.00	0.02
43.45	1.38	0.95	1.45	0.02	0.00	0.02
43.50	1.36	0.95	1.42	0.02	0.00	0.02
43.55	1.33	0.95	1.39	0.02	0.00	0.02
43.60	1.39	0.95	1.46	0.02	0.00	0.02
43.65	1.46	0.95	1.53	0.02	0.00	0.02
43.70	1.49	0.95	1.56	0.02	0.00	0.02

43.75	1.26	0.95	1.32	0.02	0.00	0.02
43.80	1.23	0.95	1.29	0.02	0.00	0.02
43.85	1.37	0.95	1.44	0.02	0.00	0.02
43.90	1.41	0.95	1.48	0.02	0.00	0.02
43.95	1.49	0.95	1.56	0.02	0.00	0.02
44.00	1.51	0.95	1.59	0.02	0.00	0.02
44.05	1.52	0.95	1.60	0.02	0.00	0.02
44.10	1.63	0.95	1.72	0.02	0.00	0.02
44.15	1.71	0.95	1.80	0.02	0.00	0.02
44.20	1.76	0.95	1.86	0.02	0.00	0.02
44.25	1.80	0.95	1.90	0.02	0.00	0.02
44.30	1.82	0.95	1.92	0.02	0.00	0.02
44.35	1.86	0.95	1.96	0.02	0.00	0.02
44.40	1.86	0.95	1.97	0.02	0.00	0.02
44.45	1.84	0.95	1.94	0.02	0.00	0.02
44.50	1.80	0.95	1.90	0.02	0.00	0.02
44.55	1.74	0.95	1.84	0.02	0.00	0.02
44.60	1.68	0.95	1.78	0.02	0.00	0.02
44.65	1.62	0.95	1.71	0.02	0.00	0.02
44.70	1.56	0.95	1.65	0.02	0.00	0.02
44.75	1.48	0.94	1.57	0.02	0.00	0.02
44.80	1.40	0.94	1.48	0.02	0.00	0.02
44.85	1.32	0.94	1.39	0.02	0.00	0.02
44.90	1.24	0.94	1.32	0.02	0.00	0.02
44.95	1.17	0.94	1.25	0.02	0.00	0.02
45.00	1.11	0.94	1.17	0.02	0.00	0.02
45.05	1.04	0.94	1.11	0.02	0.00	0.02
45.10	0.98	0.94	1.04	0.02	0.00	0.02
45.15	0.92	0.94	0.98*	0.02	0.00	0.02
45.20	0.87	0.94	0.92*	0.02	0.00	0.02
45.25	0.82	0.94	0.87*	0.02	0.00	0.02
45.30	0.77	0.94	0.82*	0.02	0.00	0.02
45.35	0.72	0.94	0.77*	0.02	0.00	0.02
45.40	0.68	0.94	0.73*	0.02	0.00	0.02
45.45	0.66	0.94	0.70*	0.02	0.00	0.02
45.50	0.64	0.94	0.68*	0.02	0.00	0.02
45.55	0.60	0.94	0.64*	0.02	0.00	0.02
45.60	0.51	0.94	0.55*	0.02	0.00	0.02
45.65	0.55	0.94	0.59*	0.02	0.00	0.02
45.70	0.61	0.94	0.65*	0.02	0.00	0.02
45.75	0.59	0.94	0.63*	0.02	0.00	0.02
45.80	0.56	0.94	0.59*	0.02	0.00	0.02
45.85	0.52	0.94	0.55*	0.02	0.00	0.02
45.90	0.47	0.94	0.50*	0.02	0.00	0.02
45.95	0.47	0.94	0.50*	0.02	0.00	0.02
46.00	0.43	0.94	0.45*	0.02	0.00	0.02
46.05	0.44	0.93	0.47*	0.02	0.00	0.02
46.10	0.49	0.93	0.52*	0.02	0.00	0.02
46.15	0.71	0.93	0.76*	0.02	0.00	0.02
46.20	2.00	0.93	5.00	0.02	0.00	0.02

46.25	2.00	0.93	5.00	0.02	0.00	0.02
46.30	2.00	0.93	5.00	0.02	0.00	0.02
46.35	2.00	0.93	5.00	0.02	0.00	0.02
46.40	2.00	0.93	5.00	0.02	0.00	0.02
46.45	2.00	0.93	5.00	0.02	0.00	0.02
46.50	2.00	0.93	5.00	0.02	0.00	0.02
46.55	2.00	0.93	5.00	0.02	0.00	0.02
46.60	2.00	0.93	5.00	0.02	0.00	0.02
46.65	2.00	0.93	5.00	0.02	0.00	0.02
46.70	2.00	0.93	5.00	0.02	0.00	0.02
46.75	2.00	0.93	5.00	0.02	0.00	0.02
46.80	2.00	0.93	5.00	0.02	0.00	0.02
46.85	2.00	0.93	5.00	0.02	0.00	0.02
46.90	2.00	0.93	5.00	0.02	0.00	0.02
46.95	2.00	0.93	5.00	0.02	0.00	0.02
47.00	2.00	0.93	5.00	0.02	0.00	0.02
47.05	2.00	0.93	5.00	0.02	0.00	0.02
47.10	2.00	0.93	5.00	0.02	0.00	0.02
47.15	2.00	0.93	5.00	0.02	0.00	0.02
47.20	2.00	0.93	5.00	0.02	0.00	0.02
47.25	2.00	0.93	5.00	0.02	0.00	0.02
47.30	2.00	0.92	5.00	0.02	0.00	0.02
47.35	2.00	0.92	5.00	0.02	0.00	0.02
47.40	2.00	0.92	5.00	0.02	0.00	0.02
47.45	2.00	0.92	5.00	0.02	0.00	0.02
47.50	2.00	0.92	5.00	0.02	0.00	0.02
47.55	2.00	0.92	5.00	0.02	0.00	0.02
47.60	2.00	0.92	5.00	0.02	0.00	0.02
47.65	2.00	0.92	5.00	0.02	0.00	0.02
47.70	2.00	0.92	5.00	0.02	0.00	0.02
47.75	2.00	0.92	5.00	0.02	0.00	0.02
47.80	2.00	0.92	5.00	0.02	0.00	0.02
47.85	2.00	0.92	5.00	0.02	0.00	0.02
47.90	2.00	0.92	5.00	0.02	0.00	0.02
47.95	2.00	0.92	5.00	0.02	0.00	0.02
48.00	2.00	0.92	5.00	0.02	0.00	0.02
48.05	2.00	0.92	5.00	0.02	0.00	0.02
48.10	2.00	0.92	5.00	0.02	0.00	0.02
48.15	2.00	0.92	5.00	0.02	0.00	0.02
48.20	2.00	0.92	5.00	0.02	0.00	0.02
48.25	2.00	0.92	5.00	0.02	0.00	0.02
48.30	2.00	0.92	5.00	0.02	0.00	0.02
48.35	2.00	0.92	5.00	0.02	0.00	0.02
48.40	2.00	0.92	5.00	0.02	0.00	0.02
48.45	2.00	0.92	5.00	0.02	0.00	0.02
48.50	2.00	0.92	5.00	0.02	0.00	0.02
48.55	2.00	0.91	5.00	0.02	0.00	0.02
48.60	2.00	0.91	5.00	0.02	0.00	0.02
48.65	2.00	0.91	5.00	0.02	0.00	0.02
48.70	2.00	0.91	5.00	0.02	0.00	0.02

48.75	2.00	0.91	5.00	0.02	0.00	0.02
48.80	2.00	0.91	5.00	0.02	0.00	0.02
48.85	2.00	0.91	5.00	0.02	0.00	0.02
48.90	2.00	0.91	5.00	0.02	0.00	0.02
48.95	2.00	0.91	5.00	0.02	0.00	0.02
49.00	2.00	0.91	5.00	0.02	0.00	0.02
49.05	2.00	0.91	5.00	0.02	0.00	0.02
49.10	2.00	0.91	5.00	0.02	0.00	0.02
49.15	2.00	0.91	5.00	0.02	0.00	0.02
49.20	2.00	0.91	5.00	0.02	0.00	0.02
49.25	2.00	0.91	5.00	0.02	0.00	0.02
49.30	2.00	0.91	5.00	0.02	0.00	0.02
49.35	2.00	0.91	5.00	0.02	0.00	0.02
49.40	2.00	0.91	5.00	0.02	0.00	0.02
49.45	2.00	0.91	5.00	0.02	0.00	0.02
49.50	2.00	0.91	5.00	0.02	0.00	0.02
49.55	2.00	0.91	5.00	0.02	0.00	0.02
49.60	2.00	0.91	5.00	0.02	0.00	0.02
49.65	2.00	0.91	5.00	0.02	0.00	0.02
49.70	2.00	0.91	5.00	0.02	0.00	0.02
49.75	2.00	0.91	5.00	0.02	0.00	0.02
49.80	2.00	0.90	5.00	0.02	0.00	0.02
49.85	0.32	0.90	0.36*	0.02	0.00	0.02
49.90	0.09	0.90	0.10*	0.02	0.00	0.02
49.95	2.00	0.90	5.00	0.00	0.00	0.00
50.00	2.00	0.90	5.00	0.00	0.00	0.00

* F.S.<1, Liquefaction Potential Zone
(F.S. is limited to 5, CRR is limited to 2, CSR is limited to 2)

Units: Unit: qc, fs, Stress or Pressure = atm (1.0581tsf); Unit Weight = pcf; Depth = ft; Settlement = in.

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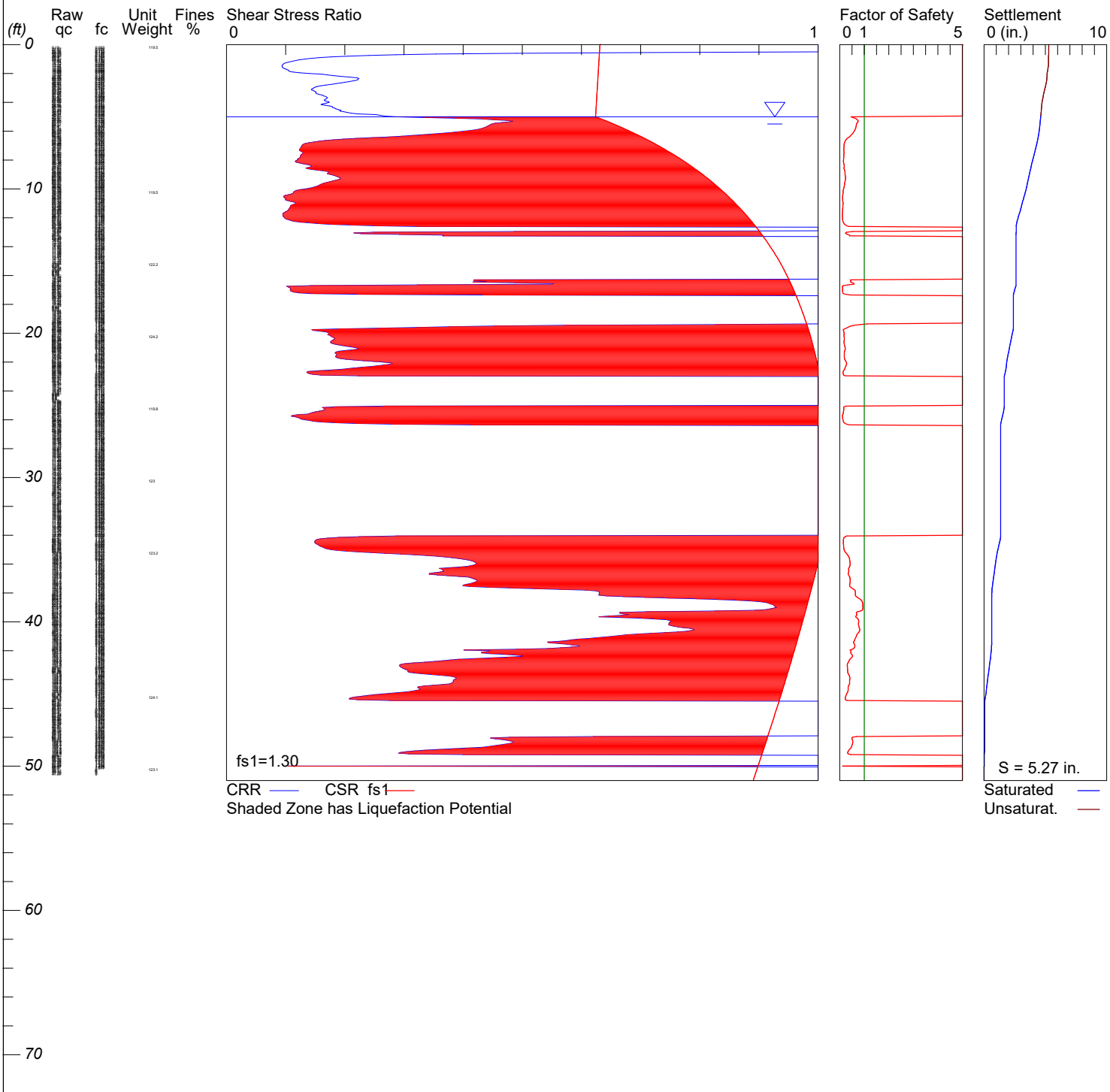
1 atm (atmosphere) = 1 tsf (ton/ft2)
CRRm Cyclic resistance ratio from soils
CSRsf Cyclic stress ratio induced by a given earthquake (with user request factor of safety)
F.S. Factor of Safety against liquefaction, F.S.=CRRm/CSRsf
S_sat Settlement from saturated sands
S_dry Settlement from Unsaturated Sands
S_all Total Settlement from Saturated and Unsaturated Sands
NoLiq No-Liquefy Soils

LIQUEFACTION ANALYSIS

Cypress

Hole No.=CPT-2 Water Depth=5 ft

Magnitude=7.5
Acceleration=.747g



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LIQUEFACTION ANALYSIS SUMMARY

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Input File Name: S:\PROJECTS\1000s GEOTECH PROJECTS\1-1209 Goodman Cypress\Calcs\Liquefaction\KYCPT2.liq
Title: Cypress
Subtitle: CPT-2

Surface Elev.=
Hole No.=CPT-2
Depth of Hole= 51.00 ft
Water Table during Earthquake= 5.00 ft
Water Table during In-Situ Testing= 7.00 ft
Max. Acceleration= 0.75 g
Earthquake Magnitude= 7.50

Input Data:
Surface Elev.=
Hole No.=CPT-2
Depth of Hole=51.00 ft
Water Table during Earthquake= 5.00 ft
Water Table during In-Situ Testing= 7.00 ft
Max. Acceleration=0.75 g
Earthquake Magnitude=7.50
No-Liquefiable Soils: CL, OL are Non-Liq. Soil

1. CPT Calculation Method: Modify Robertson*
2. Settlement Analysis Method: Ishihara / Yoshimine
3. Fines Correction for Liquefaction: Stark/Olson et al.*
4. Fine Correction for Settlement: During Liquefaction*
5. Settlement Calculation in: All zones*
9. User request factor of safety (apply to CSR) , User= 1.3
Plot one CSR curve (fs1=User)
10. Use Curve Smoothing: Yes*
* Recommended Options

In-Situ Test Data:

Depth	qc	fs	Rf	gamma	Fines	D50
ft	atm	atm	pcf	%	mm	

0.00	0.18	0.06	35.00	119.50	0.00	0.50
0.09	32.67	0.09	0.27	119.50	0.00	0.50
0.15	57.87	0.10	0.17	119.50	0.00	0.50
0.21	55.47	0.12	0.21	119.50	0.00	0.50
0.27	53.35	0.13	0.25	119.50	0.00	0.50
0.33	49.47	0.14	0.28	119.50	0.00	0.50
0.40	44.49	0.15	0.34	119.50	0.00	0.50
0.48	38.12	0.15	0.40	119.50	0.00	0.50
0.54	33.69	0.16	0.46	119.50	0.00	0.50
0.61	29.90	0.16	0.55	119.50	0.00	0.50
0.67	26.30	0.16	0.62	119.50	0.00	0.50
0.73	23.72	0.16	0.67	119.50	0.00	0.50
0.80	21.50	0.15	0.70	119.50	0.00	0.50
0.86	19.47	0.13	0.67	119.50	0.00	0.50
0.92	17.81	0.12	0.69	119.50	0.00	0.50
0.99	16.34	0.12	0.71	119.50	0.00	0.50
1.07	14.77	0.10	0.66	119.50	0.00	0.50
1.13	14.12	0.09	0.65	119.50	0.00	0.50
1.20	13.01	0.08	0.61	119.50	0.00	0.50
1.26	12.37	0.06	0.49	119.50	0.00	0.50
1.32	11.44	0.05	0.48	119.50	0.00	0.50
1.38	10.98	0.05	0.50	119.50	0.00	0.50
1.49	10.43	0.05	0.53	119.50	0.00	0.50
1.53	10.94	0.06	0.51	119.50	0.00	0.50
1.59	10.52	0.06	0.61	119.50	0.00	0.50
1.65	10.89	0.08	0.73	119.50	0.00	0.50
1.71	11.63	0.10	0.84	119.50	0.00	0.50
1.77	12.83	0.11	0.88	119.50	0.00	0.50
1.86	15.23	0.11	0.71	119.50	0.00	0.50
1.92	18.46	0.13	0.69	119.50	0.00	0.50
1.98	21.87	0.18	0.80	119.50	0.00	0.50
2.05	25.75	0.25	0.96	119.50	0.00	0.50
2.11	28.98	0.25	0.85	119.50	0.00	0.50
2.17	32.12	0.25	0.76	119.50	0.00	0.50
2.23	35.53	0.24	0.69	119.50	0.00	0.50
2.32	39.59	0.25	0.63	119.50	0.00	0.50
2.38	39.50	0.25	0.64	119.50	0.00	0.50
2.44	40.24	0.25	0.62	119.50	0.00	0.50
2.51	39.87	0.25	0.62	119.50	0.00	0.50
2.57	39.59	0.23	0.59	119.50	0.00	0.50
2.63	39.13	0.22	0.56	119.50	0.00	0.50
2.69	38.40	0.21	0.54	119.50	0.00	0.50
2.76	37.19	0.20	0.54	119.50	0.00	0.50
2.84	34.98	0.19	0.55	119.50	0.00	0.50
2.91	33.50	0.19	0.56	119.50	0.00	0.50
2.97	33.13	0.18	0.56	119.50	0.00	0.50
3.03	33.04	0.18	0.55	119.50	0.00	0.50
3.09	32.76	0.18	0.55	119.50	0.00	0.50
3.15	32.67	0.19	0.60	119.50	0.00	0.50
3.22	31.84	0.25	0.78	119.50	0.00	0.50

3.30	31.29	0.28	0.90	119.50	0.00	0.50
3.36	31.20	0.29	0.93	119.50	0.00	0.50
3.43	31.47	0.31	0.98	119.50	0.00	0.50
3.49	30.92	0.37	1.19	119.50	0.00	0.50
3.55	28.89	0.41	1.41	119.50	0.00	0.50
3.62	27.87	0.44	1.59	119.50	0.00	0.50
3.68	25.66	0.46	1.78	119.50	0.00	0.50
3.75	27.32	0.45	1.65	119.50	0.00	0.50
3.81	25.57	0.45	1.75	119.50	0.00	0.50
3.88	26.77	0.44	1.65	119.50	0.00	0.50
3.96	26.86	0.48	1.80	119.50	0.00	0.50
4.02	26.86	0.49	1.81	119.50	0.00	0.50
4.09	27.78	0.45	1.63	119.50	0.00	0.50
4.15	30.00	0.43	1.43	119.50	0.00	0.50
4.21	32.12	0.46	1.43	119.50	0.00	0.50
4.28	31.93	0.51	1.61	119.50	0.00	0.50
4.34	33.23	0.51	1.53	119.50	0.00	0.50
4.40	34.61	0.52	1.51	119.50	0.00	0.50
4.47	36.73	0.52	1.41	119.50	0.00	0.50
4.54	39.04	0.54	1.38	119.50	0.00	0.50
4.61	38.21	0.55	1.43	119.50	0.00	0.50
4.67	40.70	0.57	1.39	119.50	0.00	0.50
4.73	42.55	0.58	1.36	119.50	0.00	0.50
4.80	43.66	0.63	1.44	119.50	0.00	0.50
4.86	45.50	0.78	1.71	119.50	0.00	0.50
4.94	50.95	0.73	1.44	119.50	0.00	0.50
5.01	56.30	0.73	1.30	119.50	0.00	0.50
5.07	67.65	0.73	1.08	119.50	0.00	0.50
5.13	78.08	0.72	0.92	119.50	0.00	0.50
5.20	81.40	0.71	0.87	119.50	0.00	0.50
5.26	85.00	0.72	0.84	119.50	0.00	0.50
5.32	86.67	0.72	0.83	119.50	0.00	0.50
5.40	87.31	0.64	0.73	119.50	0.00	0.50
5.46	87.40	0.60	0.68	119.50	0.00	0.50
5.52	87.50	0.60	0.69	119.50	0.00	0.50
5.59	87.31	0.62	0.71	119.50	0.00	0.50
5.65	87.13	0.63	0.73	119.50	0.00	0.50
5.71	86.85	0.65	0.75	119.50	0.00	0.50
5.78	86.57	0.67	0.77	119.50	0.00	0.50
5.86	86.02	0.68	0.79	119.50	0.00	0.50
5.92	85.19	0.69	0.81	119.50	0.00	0.50
5.98	83.80	0.70	0.83	119.50	0.00	0.50
6.04	82.51	0.70	0.85	119.50	0.00	0.50
6.11	80.67	0.70	0.87	119.50	0.00	0.50
6.17	78.45	0.70	0.89	119.50	0.00	0.50
6.24	75.96	0.69	0.91	119.50	0.00	0.50
6.32	72.18	0.68	0.94	119.50	0.00	0.50
6.38	69.04	0.66	0.96	119.50	0.00	0.50
6.45	64.79	0.57	0.88	119.50	0.00	0.50
6.51	60.18	0.49	0.81	119.50	0.00	0.50

6.57	54.36	0.47	0.87	119.50	0.00	0.50
6.64	48.64	0.45	0.93	119.50	0.00	0.50
6.70	44.86	0.43	0.95	119.50	0.00	0.50
6.76	41.63	0.40	0.97	119.50	0.00	0.50
6.83	36.55	0.38	1.05	119.50	0.00	0.50
6.89	35.07	0.37	1.07	119.50	0.00	0.50
6.97	32.58	0.37	1.14	119.50	0.00	0.50
7.04	31.57	0.38	1.19	119.50	0.00	0.50
7.11	31.10	0.37	1.20	119.50	0.00	0.50
7.17	31.20	0.37	1.18	119.50	0.00	0.50
7.23	31.66	0.35	1.12	119.50	0.00	0.50
7.29	32.86	0.34	1.04	119.50	0.00	0.50
7.36	34.43	0.34	0.99	119.50	0.00	0.50
7.42	35.90	0.35	0.99	119.50	0.00	0.50
7.48	36.83	0.37	1.00	119.50	0.00	0.50
7.55	36.46	0.36	0.99	119.50	0.00	0.50
7.63	35.81	0.35	0.97	119.50	0.00	0.50
7.69	36.27	0.34	0.93	119.50	0.00	0.50
7.76	37.38	0.32	0.87	119.50	0.00	0.50
7.82	38.12	0.31	0.82	119.50	0.00	0.50
7.88	37.19	0.30	0.82	119.50	0.00	0.50
7.94	36.36	0.29	0.80	119.50	0.00	0.50
8.01	35.44	0.31	0.87	119.50	0.00	0.50
8.07	34.15	0.28	0.81	119.50	0.00	0.50
8.14	32.49	0.31	0.95	119.50	0.00	0.50
8.21	30.55	0.38	1.24	119.50	0.00	0.50
8.29	27.60	0.44	1.58	119.50	0.00	0.50
8.36	27.04	0.46	1.70	119.50	0.00	0.50
8.42	27.73	0.48	1.73	119.50	0.00	0.50
8.49	27.87	0.47	1.69	119.50	0.00	0.50
8.56	34.52	0.44	1.28	119.50	0.00	0.50
8.62	42.92	0.41	0.96	119.50	0.00	0.50
8.69	49.93	0.40	0.80	119.50	0.00	0.50
8.75	55.65	0.40	0.71	119.50	0.00	0.50
8.81	59.81	0.39	0.66	119.50	0.00	0.50
8.88	60.82	0.35	0.58	119.50	0.00	0.50
8.95	60.36	0.35	0.58	119.50	0.00	0.50
9.01	61.28	0.39	0.63	119.50	0.00	0.50
9.07	63.96	0.38	0.60	119.50	0.00	0.50
9.13	64.93	0.38	0.59	119.50	0.00	0.50
9.20	66.18	0.39	0.59	119.50	0.00	0.50
9.27	65.90	0.43	0.65	119.50	0.00	0.50
9.33	63.87	0.46	0.73	119.50	0.00	0.50
9.40	60.27	0.50	0.83	119.50	0.00	0.50
9.46	56.39	0.54	0.95	119.50	0.00	0.50
9.53	52.52	0.56	1.06	119.50	0.00	0.50
9.59	48.92	0.57	1.16	119.50	0.00	0.50
9.65	46.61	0.57	1.22	119.50	0.00	0.50
9.72	44.76	0.56	1.26	119.50	0.00	0.50
9.79	43.38	0.56	1.28	119.50	0.00	0.50

9.85	41.53	0.54	1.29	119.50	0.00	0.50
9.92	38.58	0.52	1.35	119.50	0.00	0.50
9.99	35.16	0.47	1.34	119.50	0.00	0.50
10.05	32.49	0.39	1.21	119.50	0.00	0.50
10.12	30.09	0.34	1.14	119.50	0.00	0.50
10.18	28.24	0.32	1.14	119.50	0.00	0.50
10.25	27.13	0.31	1.16	119.50	0.00	0.50
10.31	26.03	0.31	1.18	119.50	0.00	0.50
10.38	25.75	0.27	1.06	119.50	0.00	0.50
10.44	25.75	0.20	0.79	119.50	0.00	0.50
10.51	26.40	0.16	0.61	119.50	0.00	0.50
10.57	27.78	0.16	0.57	119.50	0.00	0.50
10.64	28.43	0.19	0.66	119.50	0.00	0.50
10.70	27.32	0.20	0.75	119.50	0.00	0.50
10.76	25.75	0.20	0.78	119.50	0.00	0.50
10.83	24.18	0.25	1.05	119.50	0.00	0.50
10.90	23.26	0.29	1.27	119.50	0.00	0.50
10.97	23.26	0.32	1.37	119.50	0.00	0.50
11.03	23.26	0.32	1.37	119.50	0.00	0.50
11.10	24.55	0.29	1.19	119.50	0.00	0.50
11.16	25.38	0.28	1.10	119.50	0.00	0.50
11.23	24.46	0.28	1.13	119.50	0.00	0.50
11.29	23.63	0.26	1.12	119.50	0.00	0.50
11.36	23.63	0.26	1.09	119.50	0.00	0.50
11.42	23.63	0.25	1.07	119.50	0.00	0.50
11.49	23.63	0.24	1.03	119.50	0.00	0.50
11.56	24.37	0.22	0.92	119.50	0.00	0.50
11.63	25.10	0.19	0.76	119.50	0.00	0.50
11.69	26.03	0.16	0.61	119.50	0.00	0.50
11.76	26.77	0.15	0.57	119.50	0.00	0.50
11.82	27.41	0.16	0.57	119.50	0.00	0.50
11.89	27.41	0.16	0.58	119.50	0.00	0.50
11.95	27.97	0.17	0.61	119.50	0.00	0.50
12.02	27.13	0.19	0.70	119.50	0.00	0.50
12.09	27.04	0.23	0.84	119.50	0.00	0.50
12.15	26.86	0.27	1.01	119.50	0.00	0.50
12.22	25.38	0.31	1.20	119.50	0.00	0.50
12.29	23.54	0.35	1.47	119.50	0.00	0.50
12.35	22.15	0.38	1.70	119.50	0.00	0.50
12.42	21.32	0.40	1.88	119.50	0.00	0.50
12.48	20.49	0.41	2.00	119.50	0.00	0.50
12.54	19.29	0.42	2.19	119.50	0.00	0.50
12.61	17.81	0.51	2.84	119.50	0.00	0.50
12.67	16.52	0.60	3.64	119.50	0.00	0.50
12.73	15.51	0.64	4.13	119.50	0.00	0.50
12.80	15.87	0.65	4.11	119.50	0.00	0.50
12.87	17.07	0.67	3.91	119.50	0.00	0.50
12.93	20.30	0.65	3.18	119.50	0.00	0.50
13.00	25.10	0.62	2.45	119.50	0.00	0.50
13.07	27.04	0.62	2.31	119.50	0.00	0.50

13.13	25.38	0.63	2.49	119.50	0.00	0.50
13.19	22.43	0.61	2.72	119.50	0.00	0.50
13.25	19.47	0.56	2.89	119.50	0.00	0.50
13.32	16.71	0.51	3.07	119.50	0.00	0.50
13.38	14.67	0.50	3.38	119.50	0.00	0.50
13.45	13.29	0.46	3.48	119.50	0.00	0.50
13.52	12.74	0.41	3.23	119.50	0.00	0.50
13.61	12.37	0.33	2.64	119.50	0.00	0.50
13.67	12.18	0.28	2.26	119.50	0.00	0.50
13.74	12.09	0.25	2.07	119.50	0.00	0.50
13.81	11.81	0.24	2.02	119.50	0.00	0.50
13.87	11.72	0.23	2.01	119.50	0.00	0.50
13.91	11.72	0.23	2.01	119.50	0.00	0.50
13.97	11.72	0.23	2.00	119.50	0.00	0.50
14.05	11.35	0.23	2.04	119.50	0.00	0.50
14.12	11.54	0.23	2.00	119.50	0.00	0.50
14.18	11.35	0.23	2.04	119.50	0.00	0.50
14.25	11.35	0.23	2.04	119.50	0.00	0.50
14.31	11.35	0.24	2.12	119.50	0.00	0.50
14.38	11.35	0.26	2.30	119.50	0.00	0.50
14.44	11.54	0.27	2.33	119.50	0.00	0.50
14.51	11.91	0.27	2.29	119.50	0.00	0.50
14.57	12.00	0.27	2.22	119.50	0.00	0.50
14.64	12.18	0.26	2.14	119.50	0.00	0.50
14.70	11.72	0.25	2.12	119.50	0.00	0.50
14.76	11.35	0.23	2.05	119.50	0.00	0.50
14.86	10.71	0.21	1.92	119.50	0.00	0.50
14.92	10.34	0.19	1.82	119.50	0.00	0.50
14.98	10.06	0.18	1.75	119.50	0.00	0.50
15.04	9.78	0.17	1.77	122.20	0.00	0.50
15.11	9.69	0.17	1.74	122.20	0.00	0.50
15.18	9.97	0.17	1.72	122.20	0.00	0.50
15.24	10.34	0.17	1.67	122.20	0.00	0.50
15.30	10.34	0.17	1.63	122.20	0.00	0.50
15.37	10.06	0.16	1.63	122.20	0.00	0.50
15.44	9.69	0.17	1.70	122.20	0.00	0.50
15.51	9.23	0.18	1.91	122.20	0.00	0.50
15.57	8.86	0.20	2.21	122.20	0.00	0.50
15.64	9.18	0.23	2.54	122.20	0.00	0.50
15.70	8.49	0.29	3.45	122.20	0.00	0.50
15.77	9.14	0.37	3.99	122.20	0.00	0.50
15.83	10.52	0.42	4.00	122.20	0.00	0.50
15.90	12.64	0.45	3.54	122.20	0.00	0.50
15.96	14.77	0.49	3.28	122.20	0.00	0.50
16.03	16.24	0.56	3.44	122.20	0.00	0.50
16.10	17.54	0.63	3.61	122.20	0.00	0.50
16.17	18.46	0.67	3.65	122.20	0.00	0.50
16.23	20.21	0.68	3.34	122.20	0.00	0.50
16.30	22.70	0.66	2.92	122.20	0.00	0.50
16.36	25.20	0.68	2.70	122.20	0.00	0.50

16.43	25.57	0.73	2.85	122.20	0.00	0.50
16.49	25.66	0.77	3.00	122.20	0.00	0.50
16.55	25.57	0.79	3.10	122.20	0.00	0.50
16.62	25.57	0.83	3.25	122.20	0.00	0.50
16.69	28.98	0.57	1.97	122.20	0.00	0.50
16.75	34.70	0.24	0.68	122.20	0.00	0.50
16.82	40.52	0.25	0.61	122.20	0.00	0.50
16.89	44.30	0.22	0.50	122.20	0.00	0.50
16.95	45.87	0.21	0.46	122.20	0.00	0.50
17.01	43.38	0.23	0.53	122.20	0.00	0.50
17.08	41.35	0.27	0.66	122.20	0.00	0.50
17.15	40.43	0.35	0.88	122.20	0.00	0.50
17.21	35.16	0.47	1.34	122.20	0.00	0.50
17.28	29.35	0.60	2.06	122.20	0.00	0.50
17.34	24.37	0.72	2.96	122.20	0.00	0.50
17.41	20.21	0.78	3.87	122.20	0.00	0.50
17.47	17.72	0.77	4.35	122.20	0.00	0.50
17.54	16.34	0.71	4.33	122.20	0.00	0.50
17.61	15.51	0.59	3.83	122.20	0.00	0.50
17.67	14.21	0.47	3.27	122.20	0.00	0.50
17.74	12.46	0.36	2.91	122.20	0.00	0.50
17.80	11.44	0.29	2.54	122.20	0.00	0.50
17.87	10.34	0.25	2.38	122.20	0.00	0.50
17.93	9.41	0.23	2.43	122.20	0.00	0.50
18.00	9.46	0.24	2.51	122.20	0.00	0.50
18.06	9.46	0.26	2.76	122.20	0.00	0.50
18.13	9.51	0.28	2.95	122.20	0.00	0.50
18.20	10.61	0.29	2.72	122.20	0.00	0.50
18.26	11.91	0.30	2.55	122.20	0.00	0.50
18.33	13.38	0.34	2.52	122.20	0.00	0.50
18.39	14.21	0.38	2.70	122.20	0.00	0.50
18.45	14.67	0.42	2.88	122.20	0.00	0.50
18.52	14.77	0.44	2.98	122.20	0.00	0.50
18.58	15.14	0.44	2.90	122.20	0.00	0.50
18.65	15.97	0.44	2.77	122.20	0.00	0.50
18.71	17.35	0.50	2.89	122.20	0.00	0.50
18.78	18.55	0.63	3.39	122.20	0.00	0.50
18.84	19.20	0.79	4.09	122.20	0.00	0.50
18.91	19.66	0.96	4.86	122.20	0.00	0.50
18.97	21.04	1.10	5.22	122.20	0.00	0.50
19.03	24.92	1.22	4.89	122.20	0.00	0.50
19.10	29.53	1.32	4.47	122.20	0.00	0.50
19.17	32.58	1.39	4.28	122.20	0.00	0.50
19.24	33.60	1.44	4.29	122.20	0.00	0.50
19.30	34.33	1.46	4.26	122.20	0.00	0.50
19.37	36.64	1.48	4.03	122.20	0.00	0.50
19.43	40.15	1.50	3.73	122.20	0.00	0.50
19.50	44.03	1.51	3.42	122.20	0.00	0.50
19.56	47.35	1.49	3.14	122.20	0.00	0.50
19.63	50.85	1.42	2.79	122.20	0.00	0.50

19.69	53.99	1.04	1.94	122.20	0.00	0.50
19.76	56.76	0.50	0.88	122.20	0.00	0.50
19.83	59.16	0.64	1.08	122.20	0.00	0.50
19.90	60.73	0.75	1.23	122.20	0.00	0.50
19.96	62.30	0.79	1.26	122.20	0.00	0.50
20.02	63.31	0.78	1.24	124.20	0.00	0.50
20.10	61.56	0.78	1.27	124.20	0.00	0.50
20.16	64.98	0.78	1.20	124.20	0.00	0.50
20.22	65.16	0.79	1.22	124.20	0.00	0.50
20.29	65.44	0.83	1.27	124.20	0.00	0.50
20.35	65.81	0.85	1.29	124.20	0.00	0.50
20.42	66.27	0.83	1.25	124.20	0.00	0.50
20.49	66.64	0.80	1.20	124.20	0.00	0.50
20.56	67.38	0.77	1.14	124.20	0.00	0.50
20.62	68.48	0.74	1.08	124.20	0.00	0.50
20.68	69.04	0.75	1.08	124.20	0.00	0.50
20.75	69.59	0.80	1.14	124.20	0.00	0.50
20.82	69.68	0.88	1.26	124.20	0.00	0.50
20.88	69.59	0.96	1.38	124.20	0.00	0.50
20.95	69.04	1.06	1.53	124.20	0.00	0.50
21.01	68.21	1.14	1.67	124.20	0.00	0.50
21.08	68.76	1.17	1.71	124.20	0.00	0.50
21.14	71.16	1.08	1.51	124.20	0.00	0.50
21.21	73.47	0.89	1.21	124.20	0.00	0.50
21.27	74.76	0.76	1.02	124.20	0.00	0.50
21.34	75.50	0.72	0.95	124.20	0.00	0.50
21.40	75.68	0.72	0.96	124.20	0.00	0.50
21.47	76.05	0.75	0.99	124.20	0.00	0.50
21.53	73.74	0.78	1.06	124.20	0.00	0.50
21.60	71.07	0.82	1.16	124.20	0.00	0.50
21.67	67.10	0.89	1.33	124.20	0.00	0.50
21.73	63.04	0.98	1.55	124.20	0.00	0.50
21.79	59.16	1.07	1.81	124.20	0.00	0.50
21.86	55.84	1.18	2.12	124.20	0.00	0.50
21.93	52.89	1.27	2.40	124.20	0.00	0.50
21.99	50.58	1.32	2.60	124.20	0.00	0.50
22.05	48.55	1.32	2.73	124.20	0.00	0.50
22.12	47.16	1.30	2.76	124.20	0.00	0.50
22.18	46.61	1.26	2.70	124.20	0.00	0.50
22.24	47.26	1.24	2.63	124.20	0.00	0.50
22.31	49.65	1.24	2.49	124.20	0.00	0.50
22.37	53.44	1.21	2.26	124.20	0.00	0.50
22.47	56.58	1.10	1.95	124.20	0.00	0.50
22.50	56.76	1.06	1.87	124.20	0.00	0.50
22.57	56.76	0.88	1.55	124.20	0.00	0.50
22.64	55.75	0.58	1.05	124.20	0.00	0.50
22.70	54.27	0.57	1.05	124.20	0.00	0.50
22.77	52.33	0.61	1.17	124.20	0.00	0.50
22.84	49.01	0.69	1.41	124.20	0.00	0.50
22.90	43.10	0.78	1.81	124.20	0.00	0.50

22.97	31.38	0.86	2.72	124.20	0.00	0.50
23.03	26.21	0.91	3.47	124.20	0.00	0.50
23.10	20.21	0.91	4.49	124.20	0.00	0.50
23.16	16.80	0.84	5.02	124.20	0.00	0.50
23.23	16.06	0.75	4.67	124.20	0.00	0.50
23.29	15.41	0.63	4.11	124.20	0.00	0.50
23.36	14.12	0.52	3.70	124.20	0.00	0.50
23.42	12.00	0.44	3.67	124.20	0.00	0.50
23.49	10.80	0.38	3.53	124.20	0.00	0.50
23.59	10.34	0.26	2.55	124.20	0.00	0.50
23.62	10.34	0.22	2.08	124.20	0.00	0.50
23.71	10.43	0.14	1.35	124.20	0.00	0.50
23.78	10.61	0.12	1.13	124.20	0.00	0.50
23.85	10.80	0.11	1.03	124.20	0.00	0.50
23.91	10.43	0.12	1.10	124.20	0.00	0.50
23.97	9.88	0.13	1.27	124.20	0.00	0.50
24.03	9.69	0.13	1.38	124.20	0.00	0.50
24.10	9.69	0.13	1.38	124.20	0.00	0.50
24.17	9.60	0.12	1.29	124.20	0.00	0.50
24.23	9.60	0.12	1.24	124.20	0.00	0.50
24.30	9.60	0.12	1.25	124.20	0.00	0.50
24.36	9.60	0.12	1.29	124.20	0.00	0.50
24.43	9.78	0.14	1.38	124.20	0.00	0.50
24.49	10.06	0.16	1.54	124.20	0.00	0.50
24.56	10.52	0.19	1.77	124.20	0.00	0.50
24.63	10.98	0.22	1.99	124.20	0.00	0.50
24.69	11.63	0.26	2.28	124.20	0.00	0.50
24.76	12.64	0.34	2.71	124.20	0.00	0.50
24.82	14.67	0.43	2.96	124.20	0.00	0.50
24.88	17.54	0.51	2.88	124.20	0.00	0.50
24.95	20.95	0.56	2.66	124.20	0.00	0.50
25.01	23.81	0.58	2.44	119.80	0.00	0.50
25.08	27.87	0.57	2.06	119.80	0.00	0.50
25.14	30.46	0.58	1.90	119.80	0.00	0.50
25.21	31.84	0.62	1.94	119.80	0.00	0.50
25.27	33.32	0.66	1.98	119.80	0.00	0.50
25.34	34.80	0.68	1.96	119.80	0.00	0.50
25.41	36.92	0.69	1.87	119.80	0.00	0.50
25.47	39.50	0.69	1.75	119.80	0.00	0.50
25.53	41.44	0.68	1.65	119.80	0.00	0.50
25.60	41.53	0.65	1.57	119.80	0.00	0.50
25.67	40.70	0.43	1.07	119.80	0.00	0.50
25.74	39.69	0.38	0.94	119.80	0.00	0.50
25.80	39.04	0.47	1.21	119.80	0.00	0.50
25.87	38.76	0.52	1.35	119.80	0.00	0.50
25.93	37.93	0.53	1.39	119.80	0.00	0.50
25.99	33.41	0.52	1.57	119.80	0.00	0.50
26.05	34.06	0.58	1.71	119.80	0.00	0.50
26.11	36.18	0.64	1.78	119.80	0.00	0.50
26.18	34.52	0.70	2.03	119.80	0.00	0.50

26.25	32.76	0.75	2.28	119.80	0.00	0.50
26.34	30.09	0.79	2.64	119.80	0.00	0.50
26.40	27.97	0.80	2.85	119.80	0.00	0.50
26.46	26.49	0.77	2.93	119.80	0.00	0.50
26.53	23.35	0.72	3.10	119.80	0.00	0.50
26.59	19.29	0.66	3.43	119.80	0.00	0.50
26.66	16.34	0.60	3.68	119.80	0.00	0.50
26.72	14.21	0.53	3.72	119.80	0.00	0.50
26.78	12.09	0.44	3.61	119.80	0.00	0.50
26.85	10.71	0.37	3.43	119.80	0.00	0.50
26.91	10.24	0.31	3.05	119.80	0.00	0.50
26.98	10.34	0.26	2.50	119.80	0.00	0.50
27.04	10.43	0.21	2.04	119.80	0.00	0.50
27.11	10.61	0.19	1.81	119.80	0.00	0.50
27.17	10.52	0.19	1.77	119.80	0.00	0.50
27.24	10.34	0.19	1.81	119.80	0.00	0.50
27.31	10.34	0.19	1.80	119.80	0.00	0.50
27.37	10.34	0.18	1.73	119.80	0.00	0.50
27.43	10.15	0.18	1.75	119.80	0.00	0.50
27.49	10.15	0.19	1.82	119.80	0.00	0.50
27.58	10.15	0.19	1.82	119.80	0.00	0.50
27.65	10.43	0.19	1.80	119.80	0.00	0.50
27.71	10.43	0.19	1.83	119.80	0.00	0.50
27.78	10.61	0.19	1.82	119.80	0.00	0.50
27.85	10.61	0.20	1.85	119.80	0.00	0.50
27.91	10.61	0.20	1.88	119.80	0.00	0.50
27.97	10.61	0.20	1.92	119.80	0.00	0.50
28.04	10.61	0.21	1.96	119.80	0.00	0.50
28.11	10.52	0.22	2.04	119.80	0.00	0.50
28.17	10.52	0.23	2.15	119.80	0.00	0.50
28.24	10.52	0.24	2.27	119.80	0.00	0.50
28.30	10.80	0.25	2.34	119.80	0.00	0.50
28.37	10.98	0.26	2.40	119.80	0.00	0.50
28.43	11.17	0.26	2.36	119.80	0.00	0.50
28.50	11.35	0.28	2.46	119.80	0.00	0.50
28.57	11.44	0.28	2.47	119.80	0.00	0.50
28.63	11.44	0.28	2.44	119.80	0.00	0.50
28.69	11.44	0.27	2.33	119.80	0.00	0.50
28.74	11.31	0.27	2.37	119.80	0.00	0.50
28.81	11.44	0.28	2.43	119.80	0.00	0.50
28.87	11.17	0.27	2.38	119.80	0.00	0.50
28.93	11.44	0.29	2.55	119.80	0.00	0.50
29.00	12.09	0.32	2.68	119.80	0.00	0.50
29.07	12.64	0.35	2.78	119.80	0.00	0.50
29.16	13.94	0.39	2.77	119.80	0.00	0.50
29.20	14.12	0.40	2.83	119.80	0.00	0.50
29.26	14.67	0.44	2.99	119.80	0.00	0.50
29.33	15.14	0.48	3.18	119.80	0.00	0.50
29.42	14.21	0.47	3.32	119.80	0.00	0.50
29.49	13.66	0.48	3.51	119.80	0.00	0.50

29.55	13.29	0.48	3.63	119.80	0.00	0.50
29.59	13.20	0.49	3.70	119.80	0.00	0.50
29.68	13.84	0.48	3.45	119.80	0.00	0.50
29.75	14.49	0.42	2.92	119.80	0.00	0.50
29.81	14.49	0.40	2.75	119.80	0.00	0.50
29.88	14.49	0.40	2.74	119.80	0.00	0.50
29.94	13.48	0.40	3.00	119.80	0.00	0.50
30.01	13.48	0.40	2.97	123.00	0.00	0.50
30.07	13.20	0.40	3.04	123.00	0.00	0.50
30.13	13.52	0.42	3.12	123.00	0.00	0.50
30.20	13.01	0.47	3.57	123.00	0.00	0.50
30.26	13.57	0.53	3.94	123.00	0.00	0.50
30.33	14.21	0.63	4.40	123.00	0.00	0.50
30.39	15.23	0.70	4.62	123.00	0.00	0.50
30.47	16.80	0.78	4.65	123.00	0.00	0.50
30.53	18.09	0.86	4.75	123.00	0.00	0.50
30.60	18.74	0.92	4.90	123.00	0.00	0.50
30.66	19.11	0.95	4.98	123.00	0.00	0.50
30.73	19.57	0.96	4.89	123.00	0.00	0.50
30.79	20.40	0.92	4.50	123.00	0.00	0.50
30.86	20.95	0.81	3.88	123.00	0.00	0.50
30.92	21.14	0.68	3.24	123.00	0.00	0.50
30.99	20.21	0.59	2.93	123.00	0.00	0.50
31.05	19.29	0.57	2.97	123.00	0.00	0.50
31.12	17.44	0.55	3.14	123.00	0.00	0.50
31.18	15.60	0.54	3.44	123.00	0.00	0.50
31.23	13.01	0.52	3.99	123.00	0.00	0.50
31.32	14.12	0.26	1.82	123.00	0.00	0.50
31.39	12.83	0.25	1.92	123.00	0.00	0.50
31.45	12.18	0.25	2.02	123.00	0.00	0.50
31.52	11.44	0.25	2.23	123.00	0.00	0.50
31.58	10.98	0.26	2.38	123.00	0.00	0.50
31.64	10.61	0.26	2.45	123.00	0.00	0.50
31.70	10.61	0.26	2.41	123.00	0.00	0.50
31.77	10.61	0.25	2.38	123.00	0.00	0.50
31.83	10.61	0.24	2.30	123.00	0.00	0.50
31.90	10.61	0.22	2.10	123.00	0.00	0.50
31.96	10.61	0.22	2.11	123.00	0.00	0.50
32.03	10.89	0.22	2.06	123.00	0.00	0.50
32.10	10.98	0.23	2.10	123.00	0.00	0.50
32.16	10.98	0.25	2.24	123.00	0.00	0.50
32.23	10.71	0.25	2.32	123.00	0.00	0.50
32.30	10.71	0.26	2.41	123.00	0.00	0.50
32.36	10.52	0.28	2.70	123.00	0.00	0.50
32.43	10.52	0.31	2.97	123.00	0.00	0.50
32.49	10.89	0.34	3.08	123.00	0.00	0.50
32.56	10.89	0.34	3.15	123.00	0.00	0.50
32.62	10.98	0.34	3.09	123.00	0.00	0.50
32.69	11.35	0.35	3.08	123.00	0.00	0.50
32.75	11.44	0.37	3.25	123.00	0.00	0.50

32.82	11.44	0.39	3.42	123.00	0.00	0.50
32.88	11.44	0.40	3.50	123.00	0.00	0.50
32.95	11.54	0.40	3.42	123.00	0.00	0.50
33.02	11.54	0.40	3.44	123.00	0.00	0.50
33.08	11.35	0.40	3.53	123.00	0.00	0.50
33.14	11.35	0.40	3.53	123.00	0.00	0.50
33.20	10.89	0.40	3.68	123.00	0.00	0.50
33.27	10.71	0.40	3.73	123.00	0.00	0.50
33.33	10.98	0.39	3.52	123.00	0.00	0.50
33.40	11.54	0.31	2.69	123.00	0.00	0.50
33.46	12.28	0.23	1.85	123.00	0.00	0.50
33.53	13.11	0.19	1.46	123.00	0.00	0.50
33.62	13.57	0.29	2.16	123.00	0.00	0.50
33.69	13.38	0.48	3.61	123.00	0.00	0.50
33.76	13.48	0.67	4.93	123.00	0.00	0.50
33.79	14.21	0.75	5.31	123.00	0.00	0.50
33.85	17.72	0.90	5.09	123.00	0.00	0.50
33.95	27.60	1.10	3.97	123.00	0.00	0.50
34.00	39.41	1.17	2.96	123.00	0.00	0.50
34.07	44.86	1.17	2.61	123.00	0.00	0.50
34.13	50.30	1.13	2.25	123.00	0.00	0.50
34.20	58.33	1.04	1.78	123.00	0.00	0.50
34.26	66.82	0.90	1.34	123.00	0.00	0.50
34.33	74.76	0.74	0.99	123.00	0.00	0.50
34.39	79.65	0.64	0.80	123.00	0.00	0.50
34.46	81.77	0.59	0.73	123.00	0.00	0.50
34.52	82.14	0.59	0.72	123.00	0.00	0.50
34.59	81.04	0.64	0.79	123.00	0.00	0.50
34.65	80.99	0.70	0.86	123.00	0.00	0.50
34.72	80.94	0.72	0.89	123.00	0.00	0.50
34.78	84.08	0.71	0.85	123.00	0.00	0.50
34.85	89.07	0.67	0.75	123.00	0.00	0.50
34.91	94.42	0.59	0.63	123.00	0.00	0.50
34.98	101.60	0.51	0.51	123.00	0.00	0.50
35.05	109.40	0.52	0.47	123.20	0.00	0.50
35.12	118.20	0.55	0.46	123.20	0.00	0.50
35.18	126.50	0.62	0.49	123.20	0.00	0.50
35.25	135.50	0.71	0.52	123.20	0.00	0.50
35.31	143.80	0.78	0.54	123.20	0.00	0.50
35.38	150.90	0.84	0.56	123.20	0.00	0.50
35.44	155.70	0.89	0.57	123.20	0.00	0.50
35.50	158.40	0.95	0.60	123.20	0.00	0.50
35.57	160.10	1.04	0.65	123.20	0.00	0.50
35.64	160.90	1.13	0.70	123.20	0.00	0.50
35.71	160.90	1.22	0.76	123.20	0.00	0.50
35.77	160.50	1.30	0.81	123.20	0.00	0.50
35.84	159.20	1.38	0.87	123.20	0.00	0.50
35.90	157.40	1.47	0.94	123.20	0.00	0.50
35.97	154.90	1.57	1.01	123.20	0.00	0.50
36.04	152.00	1.65	1.09	123.20	0.00	0.50

36.10	147.40	1.75	1.19	123.20	0.00	0.50
36.16	141.00	1.89	1.34	123.20	0.00	0.50
36.23	133.00	1.95	1.46	123.20	0.00	0.50
36.29	125.10	1.93	1.54	123.20	0.00	0.50
36.36	119.80	2.10	1.75	123.20	0.00	0.50
36.42	120.70	2.09	1.73	123.20	0.00	0.50
36.49	128.60	1.93	1.50	123.20	0.00	0.50
36.55	132.90	1.76	1.33	123.20	0.00	0.50
36.64	135.60	1.54	1.13	123.20	0.00	0.50
36.71	141.40	1.36	0.96	123.20	0.00	0.50
36.77	150.70	1.26	0.83	123.20	0.00	0.50
36.84	157.70	1.26	0.80	123.20	0.00	0.50
36.90	161.70	1.30	0.80	123.20	0.00	0.50
36.97	161.40	1.37	0.85	123.20	0.00	0.50
37.03	160.00	1.45	0.91	123.20	0.00	0.50
37.10	159.00	1.53	0.96	123.20	0.00	0.50
37.16	158.10	1.57	1.00	123.20	0.00	0.50
37.23	156.10	1.62	1.04	123.20	0.00	0.50
37.29	154.00	1.65	1.07	123.20	0.00	0.50
37.36	151.00	1.71	1.13	123.20	0.00	0.50
37.42	147.80	1.74	1.18	123.20	0.00	0.50
37.49	146.90	1.73	1.18	123.20	0.00	0.50
37.55	152.20	1.68	1.11	123.20	0.00	0.50
37.62	165.20	1.61	0.98	123.20	0.00	0.50
37.68	178.40	1.53	0.86	123.20	0.00	0.50
37.75	193.30	1.42	0.74	123.20	0.00	0.50
37.81	201.20	1.33	0.66	123.20	0.00	0.50
37.88	202.90	1.28	0.63	123.20	0.00	0.50
37.95	203.20	1.28	0.63	123.20	0.00	0.50
38.01	203.40	1.30	0.64	123.20	0.00	0.50
38.08	203.50	1.37	0.67	123.20	0.00	0.50
38.14	203.40	1.47	0.72	123.20	0.00	0.50
38.21	204.70	1.60	0.78	123.20	0.00	0.50
38.27	208.50	1.72	0.82	123.20	0.00	0.50
38.34	213.20	1.87	0.88	123.20	0.00	0.50
38.40	218.20	2.03	0.93	123.20	0.00	0.50
38.47	222.20	2.19	0.99	123.20	0.00	0.50
38.54	223.70	2.35	1.05	123.20	0.00	0.50
38.60	222.80	2.50	1.12	123.20	0.00	0.50
38.67	221.90	2.63	1.19	123.20	0.00	0.50
38.74	219.90	2.74	1.25	123.20	0.00	0.50
38.80	218.80	2.83	1.29	123.20	0.00	0.50
38.87	218.10	2.88	1.32	123.20	0.00	0.50
38.94	217.70	2.91	1.34	123.20	0.00	0.50
39.00	217.90	2.93	1.34	123.20	0.00	0.50
39.06	216.30	2.97	1.37	123.20	0.00	0.50
39.13	214.30	3.01	1.40	123.20	0.00	0.50
39.19	211.70	3.07	1.45	123.20	0.00	0.50
39.25	209.60	2.68	1.28	123.20	0.00	0.50
39.32	207.00	1.77	0.86	123.20	0.00	0.50

39.39	204.90	1.85	0.90	123.20	0.00	0.50
39.46	204.50	1.93	0.95	123.20	0.00	0.50
39.52	204.20	2.03	0.99	123.20	0.00	0.50
39.58	197.10	2.10	1.06	123.20	0.00	0.50
39.66	190.60	2.18	1.14	123.20	0.00	0.50
39.72	199.70	2.26	1.13	123.20	0.00	0.50
39.79	200.60	2.43	1.21	123.20	0.00	0.50
39.85	200.90	2.58	1.29	123.20	0.00	0.50
39.92	200.10	2.67	1.34	123.20	0.00	0.50
39.98	198.90	2.72	1.37	123.20	0.00	0.50
40.05	197.50	2.77	1.40	123.20	0.00	0.50
40.09	197.00	2.79	1.41	123.20	0.00	0.50
40.15	196.50	2.81	1.43	123.20	0.00	0.50
40.22	196.10	2.83	1.44	123.20	0.00	0.50
40.29	196.80	2.86	1.45	123.20	0.00	0.50
40.38	198.70	2.87	1.45	123.20	0.00	0.50
40.45	201.20	2.89	1.44	123.20	0.00	0.50
40.48	201.70	2.91	1.44	123.20	0.00	0.50
40.55	202.10	2.91	1.44	123.20	0.00	0.50
40.64	200.60	2.92	1.46	123.20	0.00	0.50
40.70	197.90	2.91	1.47	123.20	0.00	0.50
40.77	193.30	2.88	1.49	123.20	0.00	0.50
40.83	189.20	2.85	1.50	123.20	0.00	0.50
40.90	186.10	2.80	1.50	123.20	0.00	0.50
40.97	184.50	2.75	1.49	123.20	0.00	0.50
41.03	182.80	2.72	1.49	123.20	0.00	0.50
41.09	180.70	2.68	1.48	123.20	0.00	0.50
41.16	178.80	2.63	1.47	123.20	0.00	0.50
41.22	175.20	2.58	1.47	123.20	0.00	0.50
41.29	175.50	2.52	1.43	123.20	0.00	0.50
41.35	175.50	2.42	1.38	123.20	0.00	0.50
41.42	175.90	2.19	1.25	123.20	0.00	0.50
41.48	187.60	1.95	1.04	123.20	0.00	0.50
41.55	198.60	1.68	0.85	123.20	0.00	0.50
41.61	206.80	1.43	0.69	123.20	0.00	0.50
41.68	207.50	1.54	0.74	123.20	0.00	0.50
41.74	203.80	1.59	0.78	123.20	0.00	0.50
41.81	197.70	1.63	0.83	123.20	0.00	0.50
41.88	190.20	1.69	0.89	123.20	0.00	0.50
41.95	157.70	1.74	1.10	123.20	0.00	0.50
42.01	172.70	1.73	1.00	123.20	0.00	0.50
42.08	167.30	1.72	1.03	123.20	0.00	0.50
42.14	164.10	1.79	1.09	123.20	0.00	0.50
42.21	164.60	1.94	1.18	123.20	0.00	0.50
42.27	170.10	2.03	1.19	123.20	0.00	0.50
42.34	178.30	1.93	1.08	123.20	0.00	0.50
42.40	184.50	1.70	0.92	123.20	0.00	0.50
42.46	183.00	1.52	0.83	123.20	0.00	0.50
42.53	174.90	1.48	0.84	123.20	0.00	0.50
42.59	166.20	1.44	0.87	123.20	0.00	0.50

42.66	157.60	1.55	0.98	123.20	0.00	0.50
42.72	147.30	1.74	1.18	123.20	0.00	0.50
42.79	133.00	1.91	1.44	123.20	0.00	0.50
42.86	116.00	2.02	1.74	123.20	0.00	0.50
42.93	101.50	2.08	2.05	123.20	0.00	0.50
42.99	93.40	2.10	2.24	123.20	0.00	0.50
43.06	89.25	2.10	2.35	123.20	0.00	0.50
43.13	87.68	2.11	2.40	123.20	0.00	0.50
43.19	88.79	2.13	2.39	123.20	0.00	0.50
43.26	91.28	2.15	2.36	123.20	0.00	0.50
43.32	97.56	2.17	2.23	123.20	0.00	0.50
43.38	104.80	2.16	2.06	123.20	0.00	0.50
43.45	111.90	2.07	1.85	123.20	0.00	0.50
43.51	118.90	1.98	1.67	123.20	0.00	0.50
43.57	125.60	1.98	1.58	123.20	0.00	0.50
43.64	133.30	2.00	1.50	123.20	0.00	0.50
43.71	139.30	2.04	1.47	123.20	0.00	0.50
43.77	143.80	2.08	1.45	123.20	0.00	0.50
43.84	145.00	2.10	1.45	123.20	0.00	0.50
43.91	145.80	2.11	1.44	123.20	0.00	0.50
43.97	146.10	2.09	1.43	123.20	0.00	0.50
44.04	146.00	2.06	1.41	123.20	0.00	0.50
44.10	147.20	2.04	1.38	123.20	0.00	0.50
44.17	147.70	2.02	1.37	123.20	0.00	0.50
44.23	146.40	2.05	1.40	123.20	0.00	0.50
44.30	142.60	2.11	1.48	123.20	0.00	0.50
44.37	135.00	2.13	1.58	123.20	0.00	0.50
44.43	128.00	2.10	1.64	123.20	0.00	0.50
44.50	121.50	2.11	1.74	123.20	0.00	0.50
44.56	116.60	2.18	1.87	123.20	0.00	0.50
44.63	109.90	2.30	2.10	123.20	0.00	0.50
44.70	101.40	2.35	2.32	123.20	0.00	0.50
44.77	97.93	2.30	2.35	123.20	0.00	0.50
44.84	95.34	2.24	2.35	123.20	0.00	0.50
44.90	98.76	2.12	2.14	123.20	0.00	0.50
44.97	104.10	1.92	1.85	123.20	0.00	0.50
45.03	105.50	1.74	1.65	124.10	0.00	0.50
45.10	104.10	1.61	1.54	124.10	0.00	0.50
45.17	99.49	1.53	1.54	124.10	0.00	0.50
45.23	92.11	1.50	1.63	124.10	0.00	0.50
45.30	84.27	1.50	1.78	124.10	0.00	0.50
45.36	73.47	1.50	2.05	124.10	0.00	0.50
45.42	61.10	1.51	2.47	124.10	0.00	0.50
45.49	48.82	1.51	3.09	124.10	0.00	0.50
45.55	40.89	1.50	3.68	124.10	0.00	0.50
45.61	33.60	1.50	4.46	124.10	0.00	0.50
45.68	27.97	1.46	5.21	124.10	0.00	0.50
45.75	26.21	1.33	5.09	124.10	0.00	0.50
45.81	25.10	1.14	4.53	124.10	0.00	0.50
45.88	23.17	0.92	3.98	124.10	0.00	0.50

45.94	21.69	0.79	3.65	124.10	0.00	0.50
46.01	20.30	0.76	3.72	124.10	0.00	0.50
46.07	20.40	0.72	3.52	124.10	0.00	0.50
46.13	20.49	0.68	3.34	124.10	0.00	0.50
46.20	21.14	0.69	3.28	124.10	0.00	0.50
46.26	22.43	0.75	3.34	124.10	0.00	0.50
46.33	24.27	0.84	3.47	124.10	0.00	0.50
46.39	26.67	0.96	3.60	124.10	0.00	0.50
46.46	28.98	1.09	3.77	124.10	0.00	0.50
46.52	30.46	1.21	3.97	124.10	0.00	0.50
46.59	31.84	1.32	4.13	124.10	0.00	0.50
46.65	32.40	1.42	4.39	124.10	0.00	0.50
46.72	32.58	1.52	4.67	124.10	0.00	0.50
46.79	32.49	1.58	4.87	124.10	0.00	0.50
46.86	33.32	1.64	4.93	124.10	0.00	0.50
46.92	35.07	1.77	5.06	124.10	0.00	0.50
46.99	37.47	1.91	5.10	124.10	0.00	0.50
47.05	40.70	1.94	4.76	124.10	0.00	0.50
47.12	41.63	1.92	4.60	124.10	0.00	0.50
47.18	38.95	1.94	4.98	124.10	0.00	0.50
47.25	36.00	2.00	5.56	124.10	0.00	0.50
47.31	36.09	1.95	5.41	124.10	0.00	0.50
47.38	36.18	1.83	5.07	124.10	0.00	0.50
47.44	42.27	2.29	5.41	124.10	0.00	0.50
47.51	48.73	2.64	5.43	124.10	0.00	0.50
47.58	54.18	3.01	5.55	124.10	0.00	0.50
47.64	57.13	3.34	5.85	124.10	0.00	0.50
47.72	65.71	3.60	5.48	124.10	0.00	0.50
47.79	67.19	3.66	5.44	124.10	0.00	0.50
47.85	69.22	3.60	5.20	124.10	0.00	0.50
47.92	80.11	3.48	4.34	124.10	0.00	0.50
47.98	99.86	3.30	3.30	124.10	0.00	0.50
48.05	121.40	3.12	2.57	124.10	0.00	0.50
48.11	138.80	3.01	2.17	124.10	0.00	0.50
48.17	149.10	2.91	1.95	124.10	0.00	0.50
48.24	154.10	2.88	1.87	124.10	0.00	0.50
48.31	155.60	2.90	1.86	124.10	0.00	0.50
48.38	155.10	2.91	1.88	124.10	0.00	0.50
48.44	150.70	2.95	1.96	124.10	0.00	0.50
48.51	144.40	3.00	2.08	124.10	0.00	0.50
48.57	137.40	3.03	2.21	124.10	0.00	0.50
48.63	130.20	3.08	2.36	124.10	0.00	0.50
48.70	120.50	3.05	2.53	124.10	0.00	0.50
48.76	113.20	2.89	2.55	124.10	0.00	0.50
48.83	108.90	2.69	2.47	124.10	0.00	0.50
48.89	108.80	2.50	2.30	124.10	0.00	0.50
48.96	110.70	2.31	2.09	124.10	0.00	0.50
49.02	108.30	2.21	2.04	124.10	0.00	0.50
49.09	99.40	2.20	2.22	124.10	0.00	0.50
49.15	82.70	2.21	2.67	124.10	0.00	0.50

49.21	65.62	2.20	3.36	124.10	0.00	0.50
49.28	52.42	2.13	4.06	124.10	0.00	0.50
49.34	45.22	2.02	4.46	124.10	0.00	0.50
49.41	39.23	1.91	4.87	124.10	0.00	0.50
49.50	31.38	1.74	5.53	124.10	0.00	0.50
49.57	27.87	1.61	5.78	124.10	0.00	0.50
49.63	27.13	1.43	5.28	124.10	0.00	0.50
49.70	27.69	1.33	4.82	124.10	0.00	0.50
49.77	28.61	1.27	4.45	124.10	0.00	0.50
49.80	29.07	1.27	4.38	124.10	0.00	0.50
49.87	30.27	1.34	4.41	124.10	0.00	0.50
49.93	31.20	1.38	4.41	124.10	0.00	0.50
50.02	30.00	0.00	0.00	123.10	0.00	0.50
50.07	33.13	0.00	0.00	123.10	0.00	0.50
50.14	33.50	0.00	0.00	123.10	0.00	0.50
50.20	34.15	0.00	0.00	123.10	0.00	0.50
50.26	37.38	0.00	0.00	123.10	0.00	0.50
50.33	41.07	0.00	0.00	123.10	0.00	0.50

Modify Robertson method generates Fines from qc/fs. Inputted Fines are not relevant.

Output Results:

Settlement of Saturated Sands=4.62 in.
Settlement of Unsaturated Sands=0.64 in.
Total Settlement of Saturated and Unsaturated Sands=5.27 in.
Differential Settlement=2.633 to 3.475 in.

Depth ft	CRRm	CSRfs	F.S.	S_sat. in.	S_dry in.	S_all in.
0.00	2.00	0.63	5.00	4.62	0.64	5.27
0.05	2.08	0.63	5.00	4.62	0.64	5.27
0.10	2.08	0.63	5.00	4.62	0.64	5.27
0.15	2.08	0.63	5.00	4.62	0.64	5.27
0.20	2.08	0.63	5.00	4.62	0.64	5.27
0.25	2.08	0.63	5.00	4.62	0.64	5.27
0.30	2.08	0.63	5.00	4.62	0.64	5.27
0.35	2.08	0.63	5.00	4.62	0.64	5.27
0.40	2.08	0.63	5.00	4.62	0.64	5.27
0.45	1.58	0.63	5.00	4.62	0.64	5.27
0.50	1.04	0.63	5.00	4.62	0.64	5.27
0.55	0.70	0.63	5.00	4.62	0.64	5.27
0.60	0.49	0.63	5.00	4.62	0.64	5.27
0.65	0.35	0.63	5.00	4.62	0.64	5.26
0.70	0.29	0.63	5.00	4.62	0.64	5.26
0.75	0.24	0.63	5.00	4.62	0.64	5.26
0.80	0.21	0.63	5.00	4.62	0.64	5.26
0.85	0.18	0.63	5.00	4.62	0.64	5.26
0.90	0.16	0.63	5.00	4.62	0.64	5.26

0.95	0.14	0.63	5.00	4.62	0.64	5.26
1.00	0.13	0.63	5.00	4.62	0.64	5.26
1.05	0.12	0.63	5.00	4.62	0.64	5.26
1.10	0.12	0.63	5.00	4.62	0.64	5.26
1.15	0.11	0.63	5.00	4.62	0.64	5.26
1.20	0.11	0.63	5.00	4.62	0.64	5.26
1.25	0.10	0.63	5.00	4.62	0.63	5.26
1.30	0.10	0.63	5.00	4.62	0.63	5.26
1.35	0.10	0.63	5.00	4.62	0.63	5.26
1.40	0.09	0.63	5.00	4.62	0.63	5.25
1.45	0.09	0.63	5.00	4.62	0.62	5.25
1.50	0.09	0.63	5.00	4.62	0.62	5.24
1.55	0.09	0.63	5.00	4.62	0.61	5.23
1.60	0.10	0.63	5.00	4.62	0.60	5.22
1.65	0.10	0.63	5.00	4.62	0.59	5.21
1.70	0.10	0.63	5.00	4.62	0.58	5.20
1.75	0.10	0.63	5.00	4.62	0.57	5.20
1.80	0.11	0.63	5.00	4.62	0.56	5.19
1.85	0.11	0.63	5.00	4.62	0.55	5.18
1.90	0.11	0.63	5.00	4.62	0.54	5.17
1.95	0.12	0.63	5.00	4.62	0.53	5.15
2.00	0.14	0.63	5.00	4.62	0.52	5.15
2.05	0.16	0.63	5.00	4.62	0.52	5.14
2.10	0.17	0.63	5.00	4.62	0.51	5.14
2.15	0.18	0.63	5.00	4.62	0.51	5.14
2.20	0.19	0.63	5.00	4.62	0.51	5.13
2.25	0.21	0.63	5.00	4.62	0.50	5.13
2.30	0.22	0.63	5.00	4.62	0.50	5.13
2.35	0.22	0.63	5.00	4.62	0.50	5.12
2.40	0.22	0.63	5.00	4.62	0.49	5.12
2.45	0.22	0.63	5.00	4.62	0.49	5.11
2.50	0.22	0.63	5.00	4.62	0.48	5.11
2.55	0.21	0.63	5.00	4.62	0.47	5.10
2.60	0.20	0.63	5.00	4.62	0.46	5.08
2.65	0.19	0.63	5.00	4.62	0.45	5.07
2.70	0.19	0.63	5.00	4.62	0.44	5.06
2.75	0.18	0.63	5.00	4.62	0.42	5.05
2.80	0.17	0.63	5.00	4.62	0.41	5.03
2.85	0.16	0.63	5.00	4.62	0.40	5.02
2.90	0.15	0.63	5.00	4.62	0.38	5.01
2.95	0.15	0.63	5.00	4.62	0.37	4.99
3.00	0.15	0.63	5.00	4.62	0.35	4.98
3.05	0.15	0.63	5.00	4.62	0.34	4.96
3.10	0.14	0.63	5.00	4.62	0.32	4.95
3.15	0.14	0.63	5.00	4.62	0.31	4.93
3.20	0.15	0.63	5.00	4.62	0.30	4.92
3.25	0.15	0.63	5.00	4.62	0.28	4.91
3.30	0.15	0.63	5.00	4.62	0.27	4.89
3.35	0.15	0.63	5.00	4.62	0.25	4.88
3.40	0.15	0.63	5.00	4.62	0.24	4.87

3.45	0.16	0.63	5.00	4.62	0.23	4.85
3.50	0.16	0.63	5.00	4.62	0.22	4.84
3.55	0.16	0.63	5.00	4.62	0.20	4.83
3.60	0.17	0.63	5.00	4.62	0.19	4.82
3.65	0.17	0.63	5.00	4.62	0.18	4.81
3.70	0.17	0.63	5.00	4.62	0.17	4.79
3.75	0.17	0.63	5.00	4.62	0.16	4.78
3.80	0.17	0.63	5.00	4.62	0.15	4.77
3.85	0.16	0.63	5.00	4.62	0.14	4.76
3.90	0.17	0.63	5.00	4.62	0.13	4.75
3.95	0.17	0.63	5.00	4.62	0.12	4.74
4.00	0.17	0.63	5.00	4.62	0.11	4.73
4.05	0.17	0.63	5.00	4.62	0.10	4.72
4.10	0.16	0.63	5.00	4.62	0.09	4.71
4.15	0.16	0.63	5.00	4.62	0.08	4.71
4.20	0.17	0.63	5.00	4.62	0.08	4.70
4.25	0.17	0.62	5.00	4.62	0.07	4.70
4.30	0.18	0.62	5.00	4.62	0.07	4.69
4.35	0.18	0.62	5.00	4.62	0.06	4.69
4.40	0.18	0.62	5.00	4.62	0.06	4.68
4.45	0.18	0.62	5.00	4.62	0.06	4.68
4.50	0.19	0.62	5.00	4.62	0.05	4.67
4.55	0.19	0.62	5.00	4.62	0.05	4.67
4.60	0.19	0.62	5.00	4.62	0.04	4.66
4.65	0.20	0.62	5.00	4.62	0.03	4.66
4.70	0.20	0.62	5.00	4.62	0.03	4.65
4.75	0.21	0.62	5.00	4.62	0.02	4.65
4.80	0.22	0.62	5.00	4.62	0.02	4.64
4.85	0.25	0.62	5.00	4.62	0.01	4.64
4.90	0.26	0.62	5.00	4.62	0.01	4.63
4.95	0.27	0.62	5.00	4.62	0.00	4.63
5.00	0.29	0.62	0.46*	4.62	0.00	4.62
5.05	0.33	0.63	0.53*	4.61	0.00	4.61
5.10	0.39	0.63	0.62*	4.61	0.00	4.61
5.15	0.43	0.63	0.68*	4.60	0.00	4.60
5.20	0.45	0.64	0.71*	4.59	0.00	4.59
5.25	0.47	0.64	0.74*	4.59	0.00	4.59
5.30	0.48	0.64	0.75*	4.58	0.00	4.58
5.35	0.48	0.65	0.74*	4.58	0.00	4.58
5.40	0.47	0.65	0.72*	4.57	0.00	4.57
5.45	0.45	0.65	0.70*	4.57	0.00	4.57
5.50	0.45	0.65	0.69*	4.56	0.00	4.56
5.55	0.45	0.66	0.68*	4.55	0.00	4.55
5.60	0.44	0.66	0.67*	4.55	0.00	4.55
5.65	0.44	0.66	0.67*	4.54	0.00	4.54
5.70	0.44	0.67	0.66*	4.53	0.00	4.53
5.75	0.44	0.67	0.65*	4.53	0.00	4.53
5.80	0.43	0.67	0.64*	4.52	0.00	4.52
5.85	0.43	0.67	0.63*	4.51	0.00	4.51
5.90	0.42	0.68	0.62*	4.51	0.00	4.51

5.95	0.41	0.68	0.61*	4.50	0.00	4.50
6.00	0.40	0.68	0.59*	4.49	0.00	4.49
6.05	0.39	0.68	0.57*	4.49	0.00	4.49
6.10	0.38	0.69	0.55*	4.48	0.00	4.48
6.15	0.36	0.69	0.53*	4.47	0.00	4.47
6.20	0.35	0.69	0.50*	4.46	0.00	4.46
6.25	0.33	0.69	0.47*	4.45	0.00	4.45
6.30	0.31	0.70	0.45*	4.44	0.00	4.44
6.35	0.30	0.70	0.42*	4.43	0.00	4.43
6.40	0.27	0.70	0.39*	4.42	0.00	4.42
6.45	0.24	0.70	0.35*	4.41	0.00	4.41
6.50	0.22	0.71	0.31*	4.40	0.00	4.40
6.55	0.20	0.71	0.28*	4.39	0.00	4.39
6.60	0.18	0.71	0.25*	4.38	0.00	4.38
6.65	0.17	0.71	0.23*	4.36	0.00	4.36
6.70	0.16	0.72	0.22*	4.35	0.00	4.35
6.75	0.15	0.72	0.20*	4.34	0.00	4.34
6.80	0.14	0.72	0.19*	4.32	0.00	4.32
6.85	0.13	0.72	0.18*	4.31	0.00	4.31
6.90	0.13	0.73	0.18*	4.29	0.00	4.29
6.95	0.13	0.73	0.18*	4.28	0.00	4.28
7.00	0.13	0.73	0.17*	4.27	0.00	4.27
7.05	0.13	0.73	0.17*	4.25	0.00	4.25
7.10	0.13	0.73	0.17*	4.24	0.00	4.24
7.15	0.13	0.74	0.17*	4.22	0.00	4.22
7.20	0.12	0.74	0.17*	4.21	0.00	4.21
7.25	0.12	0.74	0.17*	4.19	0.00	4.19
7.30	0.12	0.74	0.17*	4.18	0.00	4.18
7.35	0.12	0.74	0.17*	4.16	0.00	4.16
7.40	0.13	0.75	0.17*	4.15	0.00	4.15
7.45	0.13	0.75	0.17*	4.13	0.00	4.13
7.50	0.13	0.75	0.17*	4.12	0.00	4.12
7.55	0.13	0.75	0.17*	4.10	0.00	4.10
7.60	0.13	0.75	0.17*	4.09	0.00	4.09
7.65	0.13	0.76	0.17*	4.08	0.00	4.08
7.70	0.13	0.76	0.16*	4.06	0.00	4.06
7.75	0.12	0.76	0.16*	4.05	0.00	4.05
7.80	0.12	0.76	0.16*	4.03	0.00	4.03
7.85	0.12	0.76	0.16*	4.02	0.00	4.02
7.90	0.12	0.77	0.16*	4.00	0.00	4.00
7.95	0.12	0.77	0.16*	3.98	0.00	3.98
8.00	0.12	0.77	0.16*	3.97	0.00	3.97
8.05	0.12	0.77	0.15*	3.95	0.00	3.95
8.10	0.12	0.77	0.15*	3.94	0.00	3.94
8.15	0.12	0.78	0.15*	3.92	0.00	3.92
8.20	0.12	0.78	0.16*	3.91	0.00	3.91
8.25	0.13	0.78	0.17*	3.89	0.00	3.89
8.30	0.14	0.78	0.17*	3.88	0.00	3.88
8.35	0.14	0.78	0.18*	3.87	0.00	3.87
8.40	0.14	0.78	0.18*	3.85	0.00	3.85

8.45	0.14	0.79	0.18*	3.84	0.00	3.84
8.50	0.14	0.79	0.18*	3.83	0.00	3.83
8.55	0.13	0.79	0.17*	3.82	0.00	3.82
8.60	0.14	0.79	0.17*	3.80	0.00	3.80
8.65	0.14	0.79	0.18*	3.79	0.00	3.79
8.70	0.15	0.79	0.19*	3.77	0.00	3.77
8.75	0.16	0.80	0.21*	3.76	0.00	3.76
8.80	0.17	0.80	0.22*	3.75	0.00	3.75
8.85	0.17	0.80	0.22*	3.73	0.00	3.73
8.90	0.17	0.80	0.21*	3.72	0.00	3.72
8.95	0.17	0.80	0.21*	3.71	0.00	3.71
9.00	0.18	0.80	0.22*	3.69	0.00	3.69
9.05	0.18	0.81	0.22*	3.68	0.00	3.68
9.10	0.18	0.81	0.23*	3.67	0.00	3.67
9.15	0.19	0.81	0.23*	3.65	0.00	3.65
9.20	0.19	0.81	0.24*	3.64	0.00	3.64
9.25	0.19	0.81	0.24*	3.63	0.00	3.63
9.30	0.19	0.81	0.24*	3.61	0.00	3.61
9.35	0.19	0.82	0.23*	3.60	0.00	3.60
9.40	0.18	0.82	0.23*	3.59	0.00	3.59
9.45	0.18	0.82	0.22*	3.58	0.00	3.58
9.50	0.17	0.82	0.21*	3.56	0.00	3.56
9.55	0.17	0.82	0.21*	3.55	0.00	3.55
9.60	0.16	0.82	0.20*	3.54	0.00	3.54
9.65	0.16	0.82	0.20*	3.53	0.00	3.53
9.70	0.16	0.83	0.19*	3.51	0.00	3.51
9.75	0.16	0.83	0.19*	3.50	0.00	3.50
9.80	0.15	0.83	0.19*	3.49	0.00	3.49
9.85	0.15	0.83	0.18*	3.48	0.00	3.48
9.90	0.15	0.83	0.17*	3.46	0.00	3.46
9.95	0.14	0.83	0.17*	3.45	0.00	3.45
10.00	0.13	0.83	0.16*	3.44	0.00	3.44
10.05	0.12	0.84	0.15*	3.42	0.00	3.42
10.10	0.12	0.84	0.14*	3.41	0.00	3.41
10.15	0.12	0.84	0.14*	3.39	0.00	3.39
10.20	0.11	0.84	0.14*	3.38	0.00	3.38
10.25	0.11	0.84	0.13*	3.36	0.00	3.36
10.30	0.11	0.84	0.13*	3.35	0.00	3.35
10.35	0.11	0.84	0.13*	3.33	0.00	3.33
10.40	0.10	0.85	0.12*	3.32	0.00	3.32
10.45	0.10	0.85	0.12*	3.30	0.00	3.30
10.50	0.10	0.85	0.11*	3.28	0.00	3.28
10.55	0.10	0.85	0.11*	3.26	0.00	3.26
10.60	0.10	0.85	0.12*	3.25	0.00	3.25
10.65	0.10	0.85	0.12*	3.23	0.00	3.23
10.70	0.10	0.85	0.12*	3.21	0.00	3.21
10.75	0.10	0.85	0.12*	3.19	0.00	3.19
10.80	0.10	0.86	0.12*	3.17	0.00	3.17
10.85	0.11	0.86	0.13*	3.16	0.00	3.16
10.90	0.11	0.86	0.13*	3.14	0.00	3.14

10.95	0.12	0.86	0.14*	3.13	0.00	3.13
11.00	0.12	0.86	0.14*	3.11	0.00	3.11
11.05	0.12	0.86	0.13*	3.10	0.00	3.10
11.10	0.11	0.86	0.13*	3.08	0.00	3.08
11.15	0.11	0.86	0.13*	3.07	0.00	3.07
11.20	0.11	0.86	0.12*	3.05	0.00	3.05
11.25	0.11	0.87	0.12*	3.04	0.00	3.04
11.30	0.11	0.87	0.12*	3.02	0.00	3.02
11.35	0.11	0.87	0.12*	3.00	0.00	3.00
11.40	0.11	0.87	0.12*	2.99	0.00	2.99
11.45	0.10	0.87	0.12*	2.97	0.00	2.97
11.50	0.10	0.87	0.12*	2.96	0.00	2.96
11.55	0.10	0.87	0.12*	2.94	0.00	2.94
11.60	0.10	0.87	0.11*	2.92	0.00	2.92
11.65	0.10	0.87	0.11*	2.91	0.00	2.91
11.70	0.10	0.88	0.11*	2.89	0.00	2.89
11.75	0.10	0.88	0.11*	2.87	0.00	2.87
11.80	0.10	0.88	0.11*	2.85	0.00	2.85
11.85	0.10	0.88	0.11*	2.83	0.00	2.83
11.90	0.10	0.88	0.11*	2.81	0.00	2.81
11.95	0.10	0.88	0.11*	2.79	0.00	2.79
12.00	0.10	0.88	0.11*	2.78	0.00	2.78
12.05	0.10	0.88	0.11*	2.76	0.00	2.76
12.10	0.10	0.88	0.12*	2.74	0.00	2.74
12.15	0.11	0.89	0.12*	2.72	0.00	2.72
12.20	0.11	0.89	0.12*	2.71	0.00	2.71
12.25	0.12	0.89	0.13*	2.69	0.00	2.69
12.30	0.13	0.89	0.14*	2.68	0.00	2.68
12.35	0.14	0.89	0.16*	2.66	0.00	2.66
12.40	0.16	0.89	0.17*	2.65	0.00	2.65
12.45	0.17	0.89	0.20*	2.64	0.00	2.64
12.50	0.21	0.89	0.23*	2.63	0.00	2.63
12.55	0.25	0.89	0.28*	2.62	0.00	2.62
12.60	0.32	0.89	0.36*	2.62	0.00	2.62
12.65	2.00	0.90	5.00	2.62	0.00	2.62
12.70	2.00	0.90	5.00	2.62	0.00	2.62
12.75	2.00	0.90	5.00	2.62	0.00	2.62
12.80	2.00	0.90	5.00	2.62	0.00	2.62
12.85	2.00	0.90	5.00	2.62	0.00	2.62
12.90	2.00	0.90	5.00	2.62	0.00	2.62
12.95	0.49	0.90	0.54*	2.62	0.00	2.62
13.00	0.25	0.90	0.27*	2.62	0.00	2.62
13.05	0.22	0.90	0.24*	2.61	0.00	2.61
13.10	0.23	0.90	0.25*	2.61	0.00	2.61
13.15	0.29	0.90	0.32*	2.60	0.00	2.60
13.20	0.37	0.91	0.41*	2.60	0.00	2.60
13.25	0.37	0.91	0.40*	2.60	0.00	2.60
13.30	2.00	0.91	5.00	2.60	0.00	2.60
13.35	2.00	0.91	5.00	2.60	0.00	2.60
13.40	2.00	0.91	5.00	2.60	0.00	2.60

13.45	2.00	0.91	5.00	2.60	0.00	2.60
13.50	2.00	0.91	5.00	2.60	0.00	2.60
13.55	2.00	0.91	5.00	2.60	0.00	2.60
13.60	2.00	0.91	5.00	2.60	0.00	2.60
13.65	2.00	0.91	5.00	2.60	0.00	2.60
13.70	2.00	0.91	5.00	2.60	0.00	2.60
13.75	2.00	0.92	5.00	2.60	0.00	2.60
13.80	2.00	0.92	5.00	2.60	0.00	2.60
13.85	2.00	0.92	5.00	2.60	0.00	2.60
13.90	2.00	0.92	5.00	2.60	0.00	2.60
13.95	2.00	0.92	5.00	2.60	0.00	2.60
14.00	2.00	0.92	5.00	2.60	0.00	2.60
14.05	2.00	0.92	5.00	2.60	0.00	2.60
14.10	2.00	0.92	5.00	2.60	0.00	2.60
14.15	2.00	0.92	5.00	2.60	0.00	2.60
14.20	2.00	0.92	5.00	2.60	0.00	2.60
14.25	2.00	0.92	5.00	2.60	0.00	2.60
14.30	2.00	0.92	5.00	2.60	0.00	2.60
14.35	2.00	0.92	5.00	2.60	0.00	2.60
14.40	2.00	0.93	5.00	2.60	0.00	2.60
14.45	2.00	0.93	5.00	2.60	0.00	2.60
14.50	2.00	0.93	5.00	2.60	0.00	2.60
14.55	2.00	0.93	5.00	2.60	0.00	2.60
14.60	2.00	0.93	5.00	2.60	0.00	2.60
14.65	2.00	0.93	5.00	2.60	0.00	2.60
14.70	2.00	0.93	5.00	2.60	0.00	2.60
14.75	2.00	0.93	5.00	2.60	0.00	2.60
14.80	2.00	0.93	5.00	2.60	0.00	2.60
14.85	2.00	0.93	5.00	2.60	0.00	2.60
14.90	2.00	0.93	5.00	2.60	0.00	2.60
14.95	2.00	0.93	5.00	2.60	0.00	2.60
15.00	2.00	0.93	5.00	2.60	0.00	2.60
15.05	2.00	0.94	5.00	2.60	0.00	2.60
15.10	2.00	0.94	5.00	2.60	0.00	2.60
15.15	2.00	0.94	5.00	2.60	0.00	2.60
15.20	2.00	0.94	5.00	2.60	0.00	2.60
15.25	2.00	0.94	5.00	2.60	0.00	2.60
15.30	2.00	0.94	5.00	2.60	0.00	2.60
15.35	2.00	0.94	5.00	2.60	0.00	2.60
15.40	2.00	0.94	5.00	2.60	0.00	2.60
15.45	2.00	0.94	5.00	2.60	0.00	2.60
15.50	2.00	0.94	5.00	2.60	0.00	2.60
15.55	2.00	0.94	5.00	2.60	0.00	2.60
15.60	2.00	0.94	5.00	2.60	0.00	2.60
15.65	2.00	0.94	5.00	2.60	0.00	2.60
15.70	2.00	0.94	5.00	2.60	0.00	2.60
15.75	2.00	0.94	5.00	2.60	0.00	2.60
15.80	2.00	0.94	5.00	2.60	0.00	2.60
15.85	2.00	0.95	5.00	2.60	0.00	2.60
15.90	2.00	0.95	5.00	2.60	0.00	2.60

15.95	2.00	0.95	5.00	2.60	0.00	2.60
16.00	2.00	0.95	5.00	2.60	0.00	2.60
16.05	2.00	0.95	5.00	2.60	0.00	2.60
16.10	2.00	0.95	5.00	2.60	0.00	2.60
16.15	2.00	0.95	5.00	2.60	0.00	2.60
16.20	2.00	0.95	5.00	2.60	0.00	2.60
16.25	2.00	0.95	5.00	2.60	0.00	2.60
16.30	0.42	0.95	0.44*	2.60	0.00	2.60
16.35	0.42	0.95	0.44*	2.60	0.00	2.60
16.40	0.44	0.95	0.46*	2.60	0.00	2.60
16.45	0.42	0.95	0.44*	2.60	0.00	2.60
16.50	0.49	0.95	0.51*	2.60	0.00	2.60
16.55	0.55	0.95	0.58*	2.60	0.00	2.60
16.60	0.55	0.95	0.58*	2.60	0.00	2.60
16.65	0.32	0.95	0.34*	2.60	0.00	2.60
16.70	0.14	0.96	0.15*	2.60	0.00	2.60
16.75	0.10	0.96	0.11*	2.59	0.00	2.59
16.80	0.11	0.96	0.11*	2.57	0.00	2.57
16.85	0.11	0.96	0.11*	2.55	0.00	2.55
16.90	0.11	0.96	0.11*	2.53	0.00	2.53
16.95	0.11	0.96	0.11*	2.52	0.00	2.52
17.00	0.11	0.96	0.11*	2.50	0.00	2.50
17.05	0.11	0.96	0.11*	2.48	0.00	2.48
17.10	0.11	0.96	0.11*	2.46	0.00	2.46
17.15	0.11	0.96	0.12*	2.45	0.00	2.45
17.20	0.12	0.96	0.13*	2.43	0.00	2.43
17.25	0.14	0.96	0.15*	2.42	0.00	2.42
17.30	0.22	0.96	0.23*	2.41	0.00	2.41
17.35	0.43	0.96	0.45*	2.40	0.00	2.40
17.40	2.00	0.96	5.00	2.40	0.00	2.40
17.45	2.00	0.96	5.00	2.40	0.00	2.40
17.50	2.00	0.96	5.00	2.40	0.00	2.40
17.55	2.00	0.96	5.00	2.40	0.00	2.40
17.60	2.00	0.96	5.00	2.40	0.00	2.40
17.65	2.00	0.97	5.00	2.40	0.00	2.40
17.70	2.00	0.97	5.00	2.40	0.00	2.40
17.75	2.00	0.97	5.00	2.40	0.00	2.40
17.80	2.00	0.97	5.00	2.40	0.00	2.40
17.85	2.00	0.97	5.00	2.40	0.00	2.40
17.90	2.00	0.97	5.00	2.40	0.00	2.40
17.95	2.00	0.97	5.00	2.40	0.00	2.40
18.00	2.00	0.97	5.00	2.40	0.00	2.40
18.05	2.00	0.97	5.00	2.40	0.00	2.40
18.10	2.00	0.97	5.00	2.40	0.00	2.40
18.15	2.00	0.97	5.00	2.40	0.00	2.40
18.20	2.00	0.97	5.00	2.40	0.00	2.40
18.25	2.00	0.97	5.00	2.40	0.00	2.40
18.30	2.00	0.97	5.00	2.40	0.00	2.40
18.35	2.00	0.97	5.00	2.40	0.00	2.40
18.40	2.00	0.97	5.00	2.40	0.00	2.40

18.45	2.00	0.97	5.00	2.40	0.00	2.40
18.50	2.00	0.97	5.00	2.40	0.00	2.40
18.55	2.00	0.97	5.00	2.40	0.00	2.40
18.60	2.00	0.97	5.00	2.40	0.00	2.40
18.65	2.00	0.97	5.00	2.40	0.00	2.40
18.70	2.00	0.98	5.00	2.40	0.00	2.40
18.75	2.00	0.98	5.00	2.40	0.00	2.40
18.80	2.00	0.98	5.00	2.40	0.00	2.40
18.85	2.00	0.98	5.00	2.40	0.00	2.40
18.90	2.00	0.98	5.00	2.40	0.00	2.40
18.95	2.00	0.98	5.00	2.40	0.00	2.40
19.00	2.00	0.98	5.00	2.40	0.00	2.40
19.05	2.00	0.98	5.00	2.40	0.00	2.40
19.10	2.00	0.98	5.00	2.40	0.00	2.40
19.15	2.00	0.98	5.00	2.40	0.00	2.40
19.20	2.00	0.98	5.00	2.40	0.00	2.40
19.25	2.00	0.98	5.00	2.40	0.00	2.40
19.30	2.00	0.98	5.00	2.40	0.00	2.40
19.35	1.12	0.98	1.14	2.40	0.00	2.40
19.40	0.83	0.98	0.84*	2.40	0.00	2.40
19.45	0.57	0.98	0.58*	2.40	0.00	2.40
19.50	0.45	0.98	0.46*	2.40	0.00	2.40
19.55	0.38	0.98	0.38*	2.40	0.00	2.40
19.60	0.32	0.98	0.33*	2.40	0.00	2.40
19.65	0.26	0.98	0.26*	2.40	0.00	2.40
19.70	0.19	0.98	0.19*	2.39	0.00	2.39
19.75	0.14	0.98	0.15*	2.38	0.00	2.38
19.80	0.15	0.98	0.15*	2.36	0.00	2.36
19.85	0.16	0.98	0.16*	2.35	0.00	2.35
19.90	0.17	0.98	0.17*	2.34	0.00	2.34
19.95	0.17	0.99	0.17*	2.33	0.00	2.33
20.00	0.17	0.99	0.18*	2.31	0.00	2.31
20.05	0.17	0.99	0.18*	2.30	0.00	2.30
20.10	0.17	0.99	0.17*	2.29	0.00	2.29
20.15	0.17	0.99	0.18*	2.28	0.00	2.28
20.20	0.18	0.99	0.18*	2.26	0.00	2.26
20.25	0.18	0.99	0.18*	2.25	0.00	2.25
20.30	0.18	0.99	0.18*	2.24	0.00	2.24
20.35	0.18	0.99	0.19*	2.23	0.00	2.23
20.40	0.18	0.99	0.18*	2.22	0.00	2.22
20.45	0.18	0.99	0.18*	2.20	0.00	2.20
20.50	0.18	0.99	0.18*	2.19	0.00	2.19
20.55	0.18	0.99	0.18*	2.18	0.00	2.18
20.60	0.18	0.99	0.18*	2.17	0.00	2.17
20.65	0.18	0.99	0.18*	2.15	0.00	2.15
20.70	0.18	0.99	0.18*	2.14	0.00	2.14
20.75	0.18	0.99	0.18*	2.13	0.00	2.13
20.80	0.19	0.99	0.19*	2.12	0.00	2.12
20.85	0.20	0.99	0.20*	2.11	0.00	2.11
20.90	0.20	0.99	0.21*	2.09	0.00	2.09

20.95	0.21	0.99	0.21*	2.08	0.00	2.08
21.00	0.22	0.99	0.22*	2.07	0.00	2.07
21.05	0.22	0.99	0.23*	2.06	0.00	2.06
21.10	0.22	0.99	0.22*	2.05	0.00	2.05
21.15	0.21	0.99	0.21*	2.04	0.00	2.04
21.20	0.20	0.99	0.20*	2.03	0.00	2.03
21.25	0.19	0.99	0.19*	2.02	0.00	2.02
21.30	0.19	0.99	0.19*	2.01	0.00	2.01
21.35	0.18	0.99	0.18*	1.99	0.00	1.99
21.40	0.18	0.99	0.19*	1.98	0.00	1.98
21.45	0.19	0.99	0.19*	1.97	0.00	1.97
21.50	0.19	1.00	0.19*	1.96	0.00	1.96
21.55	0.19	1.00	0.19*	1.95	0.00	1.95
21.60	0.18	1.00	0.19*	1.93	0.00	1.93
21.65	0.19	1.00	0.19*	1.92	0.00	1.92
21.70	0.19	1.00	0.19*	1.91	0.00	1.91
21.75	0.19	1.00	0.19*	1.90	0.00	1.90
21.80	0.20	1.00	0.20*	1.89	0.00	1.89
21.85	0.21	1.00	0.22*	1.88	0.00	1.88
21.90	0.23	1.00	0.23*	1.87	0.00	1.87
21.95	0.25	1.00	0.25*	1.86	0.00	1.86
22.00	0.26	1.00	0.27*	1.85	0.00	1.85
22.05	0.28	1.00	0.28*	1.84	0.00	1.84
22.10	0.28	1.00	0.28*	1.84	0.00	1.84
22.15	0.28	1.00	0.28*	1.83	0.00	1.83
22.20	0.27	1.00	0.27*	1.83	0.00	1.83
22.25	0.26	1.00	0.26*	1.82	0.00	1.82
22.30	0.25	1.00	0.25*	1.82	0.00	1.82
22.35	0.23	1.00	0.23*	1.81	0.00	1.81
22.40	0.22	1.00	0.22*	1.80	0.00	1.80
22.45	0.21	1.00	0.21*	1.79	0.00	1.79
22.50	0.20	1.00	0.19*	1.78	0.00	1.78
22.55	0.18	1.00	0.18*	1.77	0.00	1.77
22.60	0.16	1.00	0.16*	1.76	0.00	1.76
22.65	0.14	1.00	0.14*	1.74	0.00	1.74
22.70	0.14	1.00	0.14*	1.73	0.00	1.73
22.75	0.14	1.00	0.14*	1.72	0.00	1.72
22.80	0.14	1.00	0.14*	1.70	0.00	1.70
22.85	0.15	1.00	0.15*	1.69	0.00	1.69
22.90	0.16	1.00	0.16*	1.68	0.00	1.68
22.95	0.22	1.00	0.22*	1.66	0.00	1.66
23.00	2.00	1.00	5.00	1.66	0.00	1.66
23.05	2.00	1.00	5.00	1.66	0.00	1.66
23.10	2.00	1.00	5.00	1.66	0.00	1.66
23.15	2.00	1.00	5.00	1.66	0.00	1.66
23.20	2.00	1.00	5.00	1.66	0.00	1.66
23.25	2.00	1.00	5.00	1.66	0.00	1.66
23.30	2.00	1.00	5.00	1.66	0.00	1.66
23.35	2.00	1.00	5.00	1.66	0.00	1.66
23.40	2.00	1.01	5.00	1.66	0.00	1.66

23.45	2.00	1.01	5.00	1.66	0.00	1.66
23.50	2.00	1.01	5.00	1.66	0.00	1.66
23.55	2.00	1.01	5.00	1.66	0.00	1.66
23.60	2.00	1.01	5.00	1.66	0.00	1.66
23.65	2.00	1.01	5.00	1.66	0.00	1.66
23.70	2.00	1.01	5.00	1.66	0.00	1.66
23.75	2.00	1.01	5.00	1.66	0.00	1.66
23.80	2.00	1.01	5.00	1.66	0.00	1.66
23.85	2.00	1.01	5.00	1.66	0.00	1.66
23.90	2.00	1.01	5.00	1.66	0.00	1.66
23.95	2.00	1.01	5.00	1.66	0.00	1.66
24.00	2.00	1.01	5.00	1.66	0.00	1.66
24.05	2.00	1.01	5.00	1.66	0.00	1.66
24.10	2.00	1.01	5.00	1.66	0.00	1.66
24.15	2.00	1.01	5.00	1.66	0.00	1.66
24.20	2.00	1.01	5.00	1.66	0.00	1.66
24.25	2.00	1.01	5.00	1.66	0.00	1.66
24.30	2.00	1.01	5.00	1.66	0.00	1.66
24.35	2.00	1.01	5.00	1.66	0.00	1.66
24.40	2.00	1.01	5.00	1.66	0.00	1.66
24.45	2.00	1.01	5.00	1.66	0.00	1.66
24.50	2.00	1.01	5.00	1.66	0.00	1.66
24.55	2.00	1.01	5.00	1.66	0.00	1.66
24.60	2.00	1.01	5.00	1.66	0.00	1.66
24.65	2.00	1.01	5.00	1.66	0.00	1.66
24.70	2.00	1.01	5.00	1.66	0.00	1.66
24.75	2.00	1.01	5.00	1.66	0.00	1.66
24.80	2.00	1.01	5.00	1.66	0.00	1.66
24.85	2.00	1.01	5.00	1.66	0.00	1.66
24.90	2.00	1.01	5.00	1.66	0.00	1.66
24.95	2.00	1.01	5.00	1.66	0.00	1.66
25.00	2.00	1.01	5.00	1.66	0.00	1.66
25.05	0.27	1.01	0.26*	1.66	0.00	1.66
25.10	0.18	1.01	0.18*	1.66	0.00	1.66
25.15	0.16	1.01	0.16*	1.65	0.00	1.65
25.20	0.16	1.01	0.16*	1.63	0.00	1.63
25.25	0.17	1.01	0.16*	1.62	0.00	1.62
25.30	0.17	1.01	0.16*	1.61	0.00	1.61
25.35	0.16	1.01	0.16*	1.60	0.00	1.60
25.40	0.16	1.01	0.15*	1.59	0.00	1.59
25.45	0.15	1.01	0.15*	1.58	0.00	1.58
25.50	0.15	1.01	0.14*	1.57	0.00	1.57
25.55	0.14	1.01	0.14*	1.56	0.00	1.56
25.60	0.14	1.01	0.14*	1.54	0.00	1.54
25.65	0.12	1.02	0.12*	1.53	0.00	1.53
25.70	0.11	1.02	0.11*	1.52	0.00	1.52
25.75	0.11	1.02	0.11*	1.50	0.00	1.50
25.80	0.12	1.02	0.12*	1.48	0.00	1.48
25.85	0.12	1.02	0.12*	1.47	0.00	1.47
25.90	0.12	1.02	0.12*	1.46	0.00	1.46

25.95	0.13	1.02	0.12*	1.44	0.00	1.44
26.00	0.13	1.02	0.13*	1.43	0.00	1.43
26.05	0.14	1.02	0.14*	1.41	0.00	1.41
26.10	0.15	1.02	0.14*	1.40	0.00	1.40
26.15	0.16	1.02	0.16*	1.39	0.00	1.39
26.20	0.18	1.02	0.18*	1.38	0.00	1.38
26.25	0.22	1.02	0.21*	1.37	0.00	1.37
26.30	0.28	1.02	0.27*	1.36	0.00	1.36
26.35	0.41	1.02	0.41*	1.36	0.00	1.36
26.40	2.00	1.02	5.00	1.36	0.00	1.36
26.45	2.00	1.02	5.00	1.36	0.00	1.36
26.50	2.00	1.02	5.00	1.36	0.00	1.36
26.55	2.00	1.02	5.00	1.36	0.00	1.36
26.60	2.00	1.02	5.00	1.36	0.00	1.36
26.65	2.00	1.02	5.00	1.36	0.00	1.36
26.70	2.00	1.02	5.00	1.36	0.00	1.36
26.75	2.00	1.02	5.00	1.36	0.00	1.36
26.80	2.00	1.02	5.00	1.36	0.00	1.36
26.85	2.00	1.02	5.00	1.36	0.00	1.36
26.90	2.00	1.02	5.00	1.36	0.00	1.36
26.95	2.00	1.02	5.00	1.36	0.00	1.36
27.00	2.00	1.02	5.00	1.36	0.00	1.36
27.05	2.00	1.02	5.00	1.36	0.00	1.36
27.10	2.00	1.02	5.00	1.36	0.00	1.36
27.15	2.00	1.02	5.00	1.36	0.00	1.36
27.20	2.00	1.02	5.00	1.36	0.00	1.36
27.25	2.00	1.02	5.00	1.36	0.00	1.36
27.30	2.00	1.02	5.00	1.36	0.00	1.36
27.35	2.00	1.02	5.00	1.36	0.00	1.36
27.40	2.00	1.02	5.00	1.36	0.00	1.36
27.45	2.00	1.02	5.00	1.36	0.00	1.36
27.50	2.00	1.02	5.00	1.36	0.00	1.36
27.55	2.00	1.02	5.00	1.36	0.00	1.36
27.60	2.00	1.02	5.00	1.36	0.00	1.36
27.65	2.00	1.02	5.00	1.36	0.00	1.36
27.70	2.00	1.02	5.00	1.36	0.00	1.36
27.75	2.00	1.02	5.00	1.36	0.00	1.36
27.80	2.00	1.02	5.00	1.36	0.00	1.36
27.85	2.00	1.02	5.00	1.36	0.00	1.36
27.90	2.00	1.02	5.00	1.36	0.00	1.36
27.95	2.00	1.02	5.00	1.36	0.00	1.36
28.00	2.00	1.02	5.00	1.36	0.00	1.36
28.05	2.00	1.02	5.00	1.36	0.00	1.36
28.10	2.00	1.02	5.00	1.36	0.00	1.36
28.15	2.00	1.03	5.00	1.36	0.00	1.36
28.20	2.00	1.03	5.00	1.36	0.00	1.36
28.25	2.00	1.03	5.00	1.36	0.00	1.36
28.30	2.00	1.03	5.00	1.36	0.00	1.36
28.35	2.00	1.03	5.00	1.36	0.00	1.36
28.40	2.00	1.03	5.00	1.36	0.00	1.36

28.45	2.00	1.03	5.00	1.36	0.00	1.36
28.50	2.00	1.03	5.00	1.36	0.00	1.36
28.55	2.00	1.03	5.00	1.36	0.00	1.36
28.60	2.00	1.03	5.00	1.36	0.00	1.36
28.65	2.00	1.03	5.00	1.36	0.00	1.36
28.70	2.00	1.03	5.00	1.36	0.00	1.36
28.75	2.00	1.03	5.00	1.36	0.00	1.36
28.80	2.00	1.03	5.00	1.36	0.00	1.36
28.85	2.00	1.03	5.00	1.36	0.00	1.36
28.90	2.00	1.03	5.00	1.36	0.00	1.36
28.95	2.00	1.03	5.00	1.36	0.00	1.36
29.00	2.00	1.03	5.00	1.36	0.00	1.36
29.05	2.00	1.03	5.00	1.36	0.00	1.36
29.10	2.00	1.03	5.00	1.36	0.00	1.36
29.15	2.00	1.03	5.00	1.36	0.00	1.36
29.20	2.00	1.03	5.00	1.36	0.00	1.36
29.25	2.00	1.03	5.00	1.36	0.00	1.36
29.30	2.00	1.03	5.00	1.36	0.00	1.36
29.35	2.00	1.03	5.00	1.36	0.00	1.36
29.40	2.00	1.03	5.00	1.36	0.00	1.36
29.45	2.00	1.03	5.00	1.36	0.00	1.36
29.50	2.00	1.03	5.00	1.36	0.00	1.36
29.55	2.00	1.03	5.00	1.36	0.00	1.36
29.60	2.00	1.03	5.00	1.36	0.00	1.36
29.65	2.00	1.03	5.00	1.36	0.00	1.36
29.70	2.00	1.03	5.00	1.36	0.00	1.36
29.75	2.00	1.03	5.00	1.36	0.00	1.36
29.80	2.00	1.03	5.00	1.36	0.00	1.36
29.85	2.00	1.03	5.00	1.36	0.00	1.36
29.90	2.00	1.03	5.00	1.36	0.00	1.36
29.95	2.00	1.03	5.00	1.36	0.00	1.36
30.00	2.00	1.03	5.00	1.36	0.00	1.36
30.05	2.00	1.03	5.00	1.36	0.00	1.36
30.10	2.00	1.03	5.00	1.36	0.00	1.36
30.15	2.00	1.03	5.00	1.36	0.00	1.36
30.20	2.00	1.03	5.00	1.36	0.00	1.36
30.25	2.00	1.03	5.00	1.36	0.00	1.36
30.30	2.00	1.03	5.00	1.36	0.00	1.36
30.35	2.00	1.03	5.00	1.36	0.00	1.36
30.40	2.00	1.03	5.00	1.36	0.00	1.36
30.45	2.00	1.03	5.00	1.36	0.00	1.36
30.50	2.00	1.03	5.00	1.36	0.00	1.36
30.55	2.00	1.03	5.00	1.36	0.00	1.36
30.60	2.00	1.03	5.00	1.36	0.00	1.36
30.65	2.00	1.03	5.00	1.36	0.00	1.36
30.70	2.00	1.03	5.00	1.36	0.00	1.36
30.75	2.00	1.03	5.00	1.36	0.00	1.36
30.80	2.00	1.03	5.00	1.36	0.00	1.36
30.85	2.00	1.03	5.00	1.36	0.00	1.36
30.90	2.00	1.03	5.00	1.36	0.00	1.36

30.95	2.00	1.03	5.00	1.36	0.00	1.36
31.00	2.00	1.03	5.00	1.36	0.00	1.36
31.05	2.00	1.03	5.00	1.36	0.00	1.36
31.10	2.00	1.03	5.00	1.36	0.00	1.36
31.15	2.00	1.03	5.00	1.36	0.00	1.36
31.20	2.00	1.03	5.00	1.36	0.00	1.36
31.25	2.00	1.03	5.00	1.36	0.00	1.36
31.30	2.00	1.02	5.00	1.36	0.00	1.36
31.35	2.00	1.02	5.00	1.36	0.00	1.36
31.40	2.00	1.02	5.00	1.36	0.00	1.36
31.45	2.00	1.02	5.00	1.36	0.00	1.36
31.50	2.00	1.02	5.00	1.36	0.00	1.36
31.55	2.00	1.02	5.00	1.36	0.00	1.36
31.60	2.00	1.02	5.00	1.36	0.00	1.36
31.65	2.00	1.02	5.00	1.36	0.00	1.36
31.70	2.00	1.02	5.00	1.36	0.00	1.36
31.75	2.00	1.02	5.00	1.36	0.00	1.36
31.80	2.00	1.02	5.00	1.36	0.00	1.36
31.85	2.00	1.02	5.00	1.36	0.00	1.36
31.90	2.00	1.02	5.00	1.36	0.00	1.36
31.95	2.00	1.02	5.00	1.36	0.00	1.36
32.00	2.00	1.02	5.00	1.36	0.00	1.36
32.05	2.00	1.02	5.00	1.36	0.00	1.36
32.10	2.00	1.02	5.00	1.36	0.00	1.36
32.15	2.00	1.02	5.00	1.36	0.00	1.36
32.20	2.00	1.02	5.00	1.36	0.00	1.36
32.25	2.00	1.02	5.00	1.36	0.00	1.36
32.30	2.00	1.02	5.00	1.36	0.00	1.36
32.35	2.00	1.02	5.00	1.36	0.00	1.36
32.40	2.00	1.02	5.00	1.36	0.00	1.36
32.45	2.00	1.02	5.00	1.36	0.00	1.36
32.50	2.00	1.02	5.00	1.36	0.00	1.36
32.55	2.00	1.02	5.00	1.36	0.00	1.36
32.60	2.00	1.02	5.00	1.36	0.00	1.36
32.65	2.00	1.02	5.00	1.36	0.00	1.36
32.70	2.00	1.02	5.00	1.36	0.00	1.36
32.75	2.00	1.02	5.00	1.36	0.00	1.36
32.80	2.00	1.02	5.00	1.36	0.00	1.36
32.85	2.00	1.02	5.00	1.36	0.00	1.36
32.90	2.00	1.02	5.00	1.36	0.00	1.36
32.95	2.00	1.02	5.00	1.36	0.00	1.36
33.00	2.00	1.02	5.00	1.36	0.00	1.36
33.05	2.00	1.02	5.00	1.36	0.00	1.36
33.10	2.00	1.02	5.00	1.36	0.00	1.36
33.15	2.00	1.02	5.00	1.36	0.00	1.36
33.20	2.00	1.02	5.00	1.36	0.00	1.36
33.25	2.00	1.01	5.00	1.36	0.00	1.36
33.30	2.00	1.01	5.00	1.36	0.00	1.36
33.35	2.00	1.01	5.00	1.36	0.00	1.36
33.40	2.00	1.01	5.00	1.36	0.00	1.36

33.45	2.00	1.01	5.00	1.36	0.00	1.36
33.50	2.00	1.01	5.00	1.36	0.00	1.36
33.55	2.00	1.01	5.00	1.36	0.00	1.36
33.60	2.00	1.01	5.00	1.36	0.00	1.36
33.65	2.00	1.01	5.00	1.36	0.00	1.36
33.70	2.00	1.01	5.00	1.36	0.00	1.36
33.75	2.00	1.01	5.00	1.36	0.00	1.36
33.80	2.00	1.01	5.00	1.36	0.00	1.36
33.85	2.00	1.01	5.00	1.36	0.00	1.36
33.90	2.00	1.01	5.00	1.36	0.00	1.36
33.95	2.00	1.01	5.00	1.36	0.00	1.36
34.00	2.00	1.01	5.00	1.36	0.00	1.36
34.05	0.29	1.01	0.28*	1.36	0.00	1.36
34.10	0.22	1.01	0.22*	1.36	0.00	1.36
34.15	0.19	1.01	0.19*	1.35	0.00	1.35
34.20	0.17	1.01	0.17*	1.34	0.00	1.34
34.25	0.16	1.01	0.16*	1.33	0.00	1.33
34.30	0.15	1.01	0.15*	1.32	0.00	1.32
34.35	0.15	1.01	0.15*	1.30	0.00	1.30
34.40	0.15	1.01	0.15*	1.29	0.00	1.29
34.45	0.15	1.01	0.15*	1.28	0.00	1.28
34.50	0.15	1.01	0.15*	1.26	0.00	1.26
34.55	0.15	1.01	0.15*	1.25	0.00	1.25
34.60	0.15	1.01	0.15*	1.24	0.00	1.24
34.65	0.15	1.01	0.15*	1.22	0.00	1.22
34.70	0.16	1.01	0.16*	1.21	0.00	1.21
34.75	0.16	1.01	0.16*	1.19	0.00	1.19
34.80	0.16	1.01	0.16*	1.18	0.00	1.18
34.85	0.16	1.01	0.16*	1.17	0.00	1.17
34.90	0.17	1.01	0.17*	1.15	0.00	1.15
34.95	0.17	1.01	0.17*	1.14	0.00	1.14
35.00	0.18	1.01	0.18*	1.13	0.00	1.13
35.05	0.19	1.00	0.19*	1.11	0.00	1.11
35.10	0.20	1.00	0.20*	1.10	0.00	1.10
35.15	0.22	1.00	0.22*	1.09	0.00	1.09
35.20	0.24	1.00	0.24*	1.08	0.00	1.08
35.25	0.27	1.00	0.27*	1.06	0.00	1.06
35.30	0.29	1.00	0.29*	1.05	0.00	1.05
35.35	0.32	1.00	0.31*	1.04	0.00	1.04
35.40	0.34	1.00	0.34*	1.03	0.00	1.03
35.45	0.35	1.00	0.35*	1.02	0.00	1.02
35.50	0.37	1.00	0.37*	1.01	0.00	1.01
35.55	0.38	1.00	0.38*	1.00	0.00	1.00
35.60	0.39	1.00	0.39*	0.99	0.00	0.99
35.65	0.40	1.00	0.40*	0.98	0.00	0.98
35.70	0.41	1.00	0.41*	0.97	0.00	0.97
35.75	0.41	1.00	0.41*	0.96	0.00	0.96
35.80	0.42	1.00	0.42*	0.96	0.00	0.96
35.85	0.42	1.00	0.42*	0.95	0.00	0.95
35.90	0.42	1.00	0.42*	0.94	0.00	0.94

35.95	0.42	1.00	0.42*	0.93	0.00	0.93
36.00	0.42	1.00	0.42*	0.92	0.00	0.92
36.05	0.42	1.00	0.42*	0.92	0.00	0.92
36.10	0.41	1.00	0.41*	0.91	0.00	0.91
36.15	0.41	1.00	0.41*	0.90	0.00	0.90
36.20	0.39	1.00	0.40*	0.89	0.00	0.89
36.25	0.38	1.00	0.38*	0.89	0.00	0.89
36.30	0.36	1.00	0.36*	0.88	0.00	0.88
36.35	0.36	1.00	0.37*	0.87	0.00	0.87
36.40	0.37	1.00	0.37*	0.87	0.00	0.87
36.45	0.37	1.00	0.37*	0.86	0.00	0.86
36.50	0.37	1.00	0.37*	0.85	0.00	0.85
36.55	0.36	1.00	0.36*	0.84	0.00	0.84
36.60	0.35	1.00	0.35*	0.84	0.00	0.84
36.65	0.34	1.00	0.34*	0.83	0.00	0.83
36.70	0.34	1.00	0.34*	0.82	0.00	0.82
36.75	0.36	0.99	0.36*	0.81	0.00	0.81
36.80	0.37	0.99	0.38*	0.80	0.00	0.80
36.85	0.39	0.99	0.39*	0.79	0.00	0.79
36.90	0.41	0.99	0.41*	0.78	0.00	0.78
36.95	0.41	0.99	0.42*	0.77	0.00	0.77
37.00	0.42	0.99	0.42*	0.77	0.00	0.77
37.05	0.42	0.99	0.42*	0.76	0.00	0.76
37.10	0.42	0.99	0.43*	0.75	0.00	0.75
37.15	0.42	0.99	0.43*	0.74	0.00	0.74
37.20	0.42	0.99	0.43*	0.73	0.00	0.73
37.25	0.42	0.99	0.42*	0.73	0.00	0.73
37.30	0.42	0.99	0.42*	0.72	0.00	0.72
37.35	0.41	0.99	0.42*	0.71	0.00	0.71
37.40	0.41	0.99	0.41*	0.70	0.00	0.70
37.45	0.40	0.99	0.40*	0.69	0.00	0.69
37.50	0.40	0.99	0.40*	0.69	0.00	0.69
37.55	0.41	0.99	0.42*	0.68	0.00	0.68
37.60	0.44	0.99	0.45*	0.67	0.00	0.67
37.65	0.48	0.99	0.48*	0.66	0.00	0.66
37.70	0.52	0.99	0.53*	0.66	0.00	0.66
37.75	0.56	0.99	0.57*	0.65	0.00	0.65
37.80	0.61	0.99	0.61*	0.65	0.00	0.65
37.85	0.62	0.99	0.63*	0.64	0.00	0.64
37.90	0.63	0.99	0.64*	0.64	0.00	0.64
37.95	0.63	0.99	0.64*	0.64	0.00	0.64
38.00	0.63	0.99	0.64*	0.64	0.00	0.64
38.05	0.63	0.99	0.64*	0.63	0.00	0.63
38.10	0.63	0.99	0.64*	0.63	0.00	0.63
38.15	0.63	0.99	0.64*	0.63	0.00	0.63
38.20	0.64	0.99	0.65*	0.63	0.00	0.63
38.25	0.67	0.99	0.68*	0.63	0.00	0.63
38.30	0.71	0.98	0.72*	0.63	0.00	0.63
38.35	0.75	0.98	0.76*	0.63	0.00	0.63
38.40	0.79	0.98	0.81*	0.63	0.00	0.63

38.45	0.83	0.98	0.84*	0.63	0.00	0.63
38.50	0.86	0.98	0.88*	0.63	0.00	0.63
38.55	0.89	0.98	0.90*	0.63	0.00	0.63
38.60	0.90	0.98	0.92*	0.63	0.00	0.63
38.65	0.91	0.98	0.93*	0.63	0.00	0.63
38.70	0.92	0.98	0.93*	0.63	0.00	0.63
38.75	0.92	0.98	0.94*	0.63	0.00	0.63
38.80	0.92	0.98	0.94*	0.63	0.00	0.63
38.85	0.93	0.98	0.94*	0.63	0.00	0.63
38.90	0.93	0.98	0.94*	0.63	0.00	0.63
38.95	0.93	0.98	0.95*	0.63	0.00	0.63
39.00	0.93	0.98	0.95*	0.63	0.00	0.63
39.05	0.93	0.98	0.94*	0.63	0.00	0.63
39.10	0.92	0.98	0.94*	0.63	0.00	0.63
39.15	0.91	0.98	0.93*	0.63	0.00	0.63
39.20	0.89	0.98	0.91*	0.63	0.00	0.63
39.25	0.83	0.98	0.84*	0.63	0.00	0.63
39.30	0.71	0.98	0.73*	0.63	0.00	0.63
39.35	0.66	0.98	0.68*	0.63	0.00	0.63
39.40	0.67	0.98	0.68*	0.63	0.00	0.63
39.45	0.67	0.98	0.69*	0.63	0.00	0.63
39.50	0.68	0.98	0.70*	0.63	0.00	0.63
39.55	0.67	0.98	0.68*	0.63	0.00	0.63
39.60	0.65	0.98	0.66*	0.63	0.00	0.63
39.65	0.63	0.98	0.65*	0.63	0.00	0.63
39.70	0.67	0.98	0.68*	0.63	0.00	0.63
39.75	0.70	0.98	0.72*	0.63	0.00	0.63
39.80	0.72	0.97	0.74*	0.63	0.00	0.63
39.85	0.74	0.97	0.76*	0.63	0.00	0.63
39.90	0.75	0.97	0.77*	0.63	0.00	0.63
39.95	0.75	0.97	0.77*	0.63	0.00	0.63
40.00	0.75	0.97	0.77*	0.63	0.00	0.63
40.05	0.75	0.97	0.77*	0.63	0.00	0.63
40.10	0.75	0.97	0.77*	0.63	0.00	0.63
40.15	0.75	0.97	0.77*	0.63	0.00	0.63
40.20	0.75	0.97	0.77*	0.63	0.00	0.63
40.25	0.75	0.97	0.77*	0.63	0.00	0.63
40.30	0.76	0.97	0.78*	0.63	0.00	0.63
40.35	0.76	0.97	0.79*	0.63	0.00	0.63
40.40	0.77	0.97	0.79*	0.63	0.00	0.63
40.45	0.78	0.97	0.81*	0.63	0.00	0.63
40.50	0.79	0.97	0.81*	0.63	0.00	0.63
40.55	0.79	0.97	0.82*	0.63	0.00	0.63
40.60	0.79	0.97	0.81*	0.63	0.00	0.63
40.65	0.78	0.97	0.80*	0.63	0.00	0.63
40.70	0.76	0.97	0.79*	0.63	0.00	0.63
40.75	0.74	0.97	0.76*	0.63	0.00	0.63
40.80	0.72	0.97	0.74*	0.63	0.00	0.63
40.85	0.69	0.97	0.72*	0.63	0.00	0.63
40.90	0.68	0.97	0.70*	0.63	0.00	0.63

40.95	0.66	0.97	0.69*	0.63	0.00	0.63
41.00	0.65	0.97	0.68*	0.63	0.00	0.63
41.05	0.64	0.97	0.66*	0.63	0.00	0.63
41.10	0.63	0.97	0.65*	0.63	0.00	0.63
41.15	0.61	0.97	0.64*	0.63	0.00	0.63
41.20	0.59	0.97	0.62*	0.63	0.00	0.63
41.25	0.58	0.96	0.60*	0.63	0.00	0.63
41.30	0.58	0.96	0.60*	0.63	0.00	0.63
41.35	0.56	0.96	0.58*	0.63	0.00	0.63
41.40	0.54	0.96	0.56*	0.63	0.00	0.63
41.45	0.54	0.96	0.57*	0.63	0.00	0.63
41.50	0.56	0.96	0.58*	0.62	0.00	0.62
41.55	0.57	0.96	0.60*	0.62	0.00	0.62
41.60	0.58	0.96	0.61*	0.62	0.00	0.62
41.65	0.60	0.96	0.62*	0.62	0.00	0.62
41.70	0.60	0.96	0.62*	0.61	0.00	0.61
41.75	0.58	0.96	0.61*	0.61	0.00	0.61
41.80	0.56	0.96	0.59*	0.61	0.00	0.61
41.85	0.54	0.96	0.57*	0.60	0.00	0.60
41.90	0.49	0.96	0.51*	0.60	0.00	0.60
41.95	0.40	0.96	0.42*	0.60	0.00	0.60
42.00	0.45	0.96	0.46*	0.59	0.00	0.59
42.05	0.44	0.96	0.46*	0.58	0.00	0.58
42.10	0.43	0.96	0.45*	0.57	0.00	0.57
42.15	0.43	0.96	0.45*	0.57	0.00	0.57
42.20	0.44	0.96	0.46*	0.56	0.00	0.56
42.25	0.47	0.96	0.49*	0.55	0.00	0.55
42.30	0.49	0.96	0.51*	0.55	0.00	0.55
42.35	0.50	0.96	0.52*	0.54	0.00	0.54
42.40	0.50	0.96	0.52*	0.54	0.00	0.54
42.45	0.47	0.96	0.50*	0.53	0.00	0.53
42.50	0.45	0.96	0.47*	0.53	0.00	0.53
42.55	0.42	0.96	0.44*	0.52	0.00	0.52
42.60	0.39	0.96	0.41*	0.51	0.00	0.51
42.65	0.38	0.96	0.39*	0.50	0.00	0.50
42.70	0.37	0.95	0.38*	0.49	0.00	0.49
42.75	0.35	0.95	0.37*	0.49	0.00	0.49
42.80	0.33	0.95	0.35*	0.48	0.00	0.48
42.85	0.31	0.95	0.33*	0.47	0.00	0.47
42.90	0.30	0.95	0.32*	0.46	0.00	0.46
42.95	0.29	0.95	0.31*	0.45	0.00	0.45
43.00	0.29	0.95	0.31*	0.44	0.00	0.44
43.05	0.29	0.95	0.31*	0.44	0.00	0.44
43.10	0.29	0.95	0.31*	0.43	0.00	0.43
43.15	0.30	0.95	0.31*	0.42	0.00	0.42
43.20	0.30	0.95	0.31*	0.42	0.00	0.42
43.25	0.30	0.95	0.32*	0.41	0.00	0.41
43.30	0.30	0.95	0.32*	0.40	0.00	0.40
43.35	0.31	0.95	0.32*	0.40	0.00	0.40
43.40	0.31	0.95	0.32*	0.39	0.00	0.39

43.45	0.31	0.95	0.32*	0.38	0.00	0.38
43.50	0.31	0.95	0.33*	0.37	0.00	0.37
43.55	0.32	0.95	0.34*	0.36	0.00	0.36
43.60	0.33	0.95	0.35*	0.36	0.00	0.36
43.65	0.35	0.95	0.37*	0.35	0.00	0.35
43.70	0.36	0.95	0.38*	0.34	0.00	0.34
43.75	0.38	0.95	0.40*	0.33	0.00	0.33
43.80	0.38	0.95	0.40*	0.32	0.00	0.32
43.85	0.39	0.95	0.41*	0.32	0.00	0.32
43.90	0.39	0.95	0.41*	0.31	0.00	0.31
43.95	0.39	0.95	0.41*	0.30	0.00	0.30
44.00	0.39	0.95	0.41*	0.30	0.00	0.30
44.05	0.38	0.94	0.41*	0.29	0.00	0.29
44.10	0.38	0.94	0.41*	0.28	0.00	0.28
44.15	0.38	0.94	0.41*	0.27	0.00	0.27
44.20	0.38	0.94	0.41*	0.27	0.00	0.27
44.25	0.38	0.94	0.40*	0.26	0.00	0.26
44.30	0.38	0.94	0.40*	0.25	0.00	0.25
44.35	0.36	0.94	0.39*	0.24	0.00	0.24
44.40	0.35	0.94	0.37*	0.24	0.00	0.24
44.45	0.33	0.94	0.35*	0.23	0.00	0.23
44.50	0.32	0.94	0.34*	0.22	0.00	0.22
44.55	0.32	0.94	0.34*	0.21	0.00	0.21
44.60	0.33	0.94	0.35*	0.20	0.00	0.20
44.65	0.33	0.94	0.35*	0.20	0.00	0.20
44.70	0.33	0.94	0.35*	0.19	0.00	0.19
44.75	0.32	0.94	0.34*	0.19	0.00	0.19
44.80	0.31	0.94	0.33*	0.18	0.00	0.18
44.85	0.31	0.94	0.33*	0.17	0.00	0.17
44.90	0.29	0.94	0.31*	0.17	0.00	0.17
44.95	0.28	0.94	0.30*	0.16	0.00	0.16
45.00	0.26	0.94	0.28*	0.15	0.00	0.15
45.05	0.25	0.94	0.27*	0.14	0.00	0.14
45.10	0.24	0.94	0.26*	0.13	0.00	0.13
45.15	0.23	0.94	0.25*	0.12	0.00	0.12
45.20	0.22	0.94	0.23*	0.11	0.00	0.11
45.25	0.21	0.94	0.23*	0.10	0.00	0.10
45.30	0.21	0.94	0.22*	0.09	0.00	0.09
45.35	0.21	0.94	0.22*	0.08	0.00	0.08
45.40	0.22	0.93	0.24*	0.07	0.00	0.07
45.45	0.28	0.93	0.29*	0.06	0.00	0.06
45.50	2.00	0.93	5.00	0.06	0.00	0.06
45.55	2.00	0.93	5.00	0.06	0.00	0.06
45.60	2.00	0.93	5.00	0.06	0.00	0.06
45.65	2.00	0.93	5.00	0.06	0.00	0.06
45.70	2.00	0.93	5.00	0.06	0.00	0.06
45.75	2.00	0.93	5.00	0.06	0.00	0.06
45.80	2.00	0.93	5.00	0.06	0.00	0.06
45.85	2.00	0.93	5.00	0.06	0.00	0.06
45.90	2.00	0.93	5.00	0.06	0.00	0.06

45.95	2.00	0.93	5.00	0.06	0.00	0.06
46.00	2.00	0.93	5.00	0.06	0.00	0.06
46.05	2.00	0.93	5.00	0.06	0.00	0.06
46.10	2.00	0.93	5.00	0.06	0.00	0.06
46.15	2.00	0.93	5.00	0.06	0.00	0.06
46.20	2.00	0.93	5.00	0.06	0.00	0.06
46.25	2.00	0.93	5.00	0.06	0.00	0.06
46.30	2.00	0.93	5.00	0.06	0.00	0.06
46.35	2.00	0.93	5.00	0.06	0.00	0.06
46.40	2.00	0.93	5.00	0.06	0.00	0.06
46.45	2.00	0.93	5.00	0.06	0.00	0.06
46.50	2.00	0.93	5.00	0.06	0.00	0.06
46.55	2.00	0.93	5.00	0.06	0.00	0.06
46.60	2.00	0.93	5.00	0.06	0.00	0.06
46.65	2.00	0.93	5.00	0.06	0.00	0.06
46.70	2.00	0.92	5.00	0.06	0.00	0.06
46.75	2.00	0.92	5.00	0.06	0.00	0.06
46.80	2.00	0.92	5.00	0.06	0.00	0.06
46.85	2.00	0.92	5.00	0.06	0.00	0.06
46.90	2.00	0.92	5.00	0.06	0.00	0.06
46.95	2.00	0.92	5.00	0.06	0.00	0.06
47.00	2.00	0.92	5.00	0.06	0.00	0.06
47.05	2.00	0.92	5.00	0.06	0.00	0.06
47.10	2.00	0.92	5.00	0.06	0.00	0.06
47.15	2.00	0.92	5.00	0.06	0.00	0.06
47.20	2.00	0.92	5.00	0.06	0.00	0.06
47.25	2.00	0.92	5.00	0.06	0.00	0.06
47.30	2.00	0.92	5.00	0.06	0.00	0.06
47.35	2.00	0.92	5.00	0.06	0.00	0.06
47.40	2.00	0.92	5.00	0.06	0.00	0.06
47.45	2.00	0.92	5.00	0.06	0.00	0.06
47.50	2.00	0.92	5.00	0.06	0.00	0.06
47.55	2.00	0.92	5.00	0.06	0.00	0.06
47.60	2.00	0.92	5.00	0.06	0.00	0.06
47.65	2.00	0.92	5.00	0.06	0.00	0.06
47.70	2.00	0.92	5.00	0.06	0.00	0.06
47.75	2.00	0.92	5.00	0.06	0.00	0.06
47.80	2.00	0.92	5.00	0.06	0.00	0.06
47.85	2.00	0.92	5.00	0.06	0.00	0.06
47.90	2.00	0.92	5.00	0.06	0.00	0.06
47.95	0.62	0.91	0.68*	0.06	0.00	0.06
48.00	0.48	0.91	0.52*	0.06	0.00	0.06
48.05	0.45	0.91	0.49*	0.06	0.00	0.06
48.10	0.45	0.91	0.50*	0.06	0.00	0.06
48.15	0.46	0.91	0.51*	0.06	0.00	0.06
48.20	0.47	0.91	0.52*	0.06	0.00	0.06
48.25	0.48	0.91	0.53*	0.06	0.00	0.06
48.30	0.48	0.91	0.53*	0.06	0.00	0.06
48.35	0.49	0.91	0.53*	0.06	0.00	0.06
48.40	0.48	0.91	0.53*	0.06	0.00	0.06

48.45	0.48	0.91	0.52*	0.06	0.00	0.06
48.50	0.47	0.91	0.51*	0.06	0.00	0.06
48.55	0.46	0.91	0.50*	0.06	0.00	0.06
48.60	0.45	0.91	0.49*	0.06	0.00	0.06
48.65	0.44	0.91	0.49*	0.06	0.00	0.06
48.70	0.43	0.91	0.47*	0.06	0.00	0.06
48.75	0.40	0.91	0.45*	0.06	0.00	0.06
48.80	0.38	0.91	0.42*	0.06	0.00	0.06
48.85	0.36	0.91	0.39*	0.06	0.00	0.06
48.90	0.33	0.91	0.37*	0.05	0.00	0.05
48.95	0.32	0.91	0.35*	0.05	0.00	0.05
49.00	0.30	0.91	0.33*	0.04	0.00	0.04
49.05	0.29	0.91	0.33*	0.03	0.00	0.03
49.10	0.29	0.91	0.32*	0.03	0.00	0.03
49.15	0.31	0.91	0.34*	0.02	0.00	0.02
49.20	0.40	0.90	0.44*	0.02	0.00	0.02
49.25	2.00	0.90	5.00	0.02	0.00	0.02
49.30	2.00	0.90	5.00	0.02	0.00	0.02
49.35	2.00	0.90	5.00	0.02	0.00	0.02
49.40	2.00	0.90	5.00	0.02	0.00	0.02
49.45	2.00	0.90	5.00	0.02	0.00	0.02
49.50	2.00	0.90	5.00	0.02	0.00	0.02
49.55	2.00	0.90	5.00	0.02	0.00	0.02
49.60	2.00	0.90	5.00	0.02	0.00	0.02
49.65	2.00	0.90	5.00	0.02	0.00	0.02
49.70	2.00	0.90	5.00	0.02	0.00	0.02
49.75	2.00	0.90	5.00	0.02	0.00	0.02
49.80	2.00	0.90	5.00	0.02	0.00	0.02
49.85	2.00	0.90	5.00	0.02	0.00	0.02
49.90	2.00	0.90	5.00	0.02	0.00	0.02
49.95	2.00	0.90	5.00	0.02	0.00	0.02
50.00	0.10	0.90	0.12*	0.02	0.00	0.02
50.05	2.00	0.90	5.00	0.00	0.00	0.00
50.10	2.00	0.90	5.00	0.00	0.00	0.00
50.15	2.00	0.90	5.00	0.00	0.00	0.00
50.20	2.00	0.90	5.00	0.00	0.00	0.00
50.25	2.00	0.90	5.00	0.00	0.00	0.00
50.30	2.00	0.90	5.00	0.00	0.00	0.00
50.35	2.00	0.90	5.00	0.00	0.00	0.00
50.40	2.00	0.90	5.00	0.00	0.00	0.00
50.45	2.00	0.89	5.00	0.00	0.00	0.00
50.50	2.00	0.89	5.00	0.00	0.00	0.00
50.55	2.00	0.89	5.00	0.00	0.00	0.00
50.60	2.00	0.89	5.00	0.00	0.00	0.00
50.65	2.00	0.89	5.00	0.00	0.00	0.00
50.70	2.00	0.89	5.00	0.00	0.00	0.00
50.75	2.00	0.89	5.00	0.00	0.00	0.00
50.80	2.00	0.89	5.00	0.00	0.00	0.00
50.85	2.00	0.89	5.00	0.00	0.00	0.00
50.90	2.00	0.89	5.00	0.00	0.00	0.00

50.95	2.00	0.89	5.00	0.00	0.00	0.00
51.00	2.00	0.89	5.00	0.00	0.00	0.00

* F.S.<1, Liquefaction Potential Zone
(F.S. is limited to 5, CRR is limited to 2, CSR is limited to 2)

Units: Unit: qc, fs, Stress or Pressure = atm (1.0581tsf); Unit Weight = pcf; Depth = ft; Settlement = in.

---

1 atm (atmosphere) = 1 tsf (ton/ft2)
CRRm Cyclic resistance ratio from soils
CSRsf Cyclic stress ratio induced by a given earthquake (with user request factor of safety)
F.S. Factor of Safety against liquefaction, F.S.=CRRm/CSRsf
S_sat Settlement from saturated sands
S_dry Settlement from Unsaturated Sands
S_all Total Settlement from Saturated and Unsaturated Sands
NoLiq No-Liquefy Soils

APPENDIX D

PRELIMINARY WATER QUALITY MANAGEMENT PLAN

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City of Cypress

Preliminary
Water Quality Management Plan
(PWQMP)

Project Name:

GCC CYPRESS BUILDING 3

Record Number:

WQMP 23-X

Prepared for:

GLC CYPRESS LLC.

5665 PLAZA DRIVE

CYPRESS, CA 90630

949-407-0118

Prepared on: September 20, 2023

Prepared by:
PBLA ENGINEERING, INC.
Engineer STEVEN D. LEVISEE Registration No. 45926
1809 E. DYER ROAD, SUITE 301
SANTA ANA, CA 92705
888-714-9642

Project Owner's Certification			
WQMP Record No.	WQMP 23-x	Grading Permit No.	GP - Pending
Tract/Parcel Map No.	N/A	Building Permit No.	BS--Pending
CUP, SUP, and/or APN (Specify Lot Numbers if Portions of Tract)			SPR 2022-05 241-101-25 PCL 2 LLA 2000-03

This Water Quality Management Plan (WQMP) has been prepared for GLC CYPRESS LLC by PBLA ENGINEERING, INC. The WQMP is intended to comply with the requirements of the local NPDES Stormwater Program requiring the preparation of the plan.

The undersigned, while it owns the subject property, is responsible for the implementation of the provisions of this plan and will ensure that this plan is amended as appropriate to reflect up-to-date conditions on the site consistent with the current Orange County Drainage Area Management Plan (DAMP) and the intent of the non-point source NPDES Permit for Waste Discharge Requirements for the County of Orange, Orange County Flood Control District and the incorporated Cities of Orange County within the Santa Ana Region. Once the undersigned transfers its interest in the property, its successors-in-interest shall bear the aforementioned responsibility to implement and amend the WQMP. After approval, any changes to the site plan will require resubmittal of an amended WQMP and approval by the City. An appropriate number of approved and signed copies of this document shall be available on the subject site in perpetuity.

Owner:			
Title			
Company	GLC CYPRESS LLC		
Address	3333 Michelson Drive, Suite 1050 Irvine, CA 92612		
Email			
Telephone #	949-407-0118		
Signature		Date	

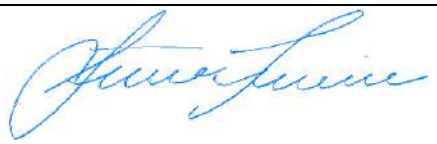
Project Engineer's Certification			
WQMP Record No.	WQMP 23-x	Grading Permit No.	GP -Pending
Tract/Parcel Map No.	N/A	Building Permit No.	BS-Pending
CUP, SUP, and/or APN (Specify Lot Numbers if Portions of Tract)			SPR 2022-05 241-101-25 PCL 2 LLA 2000-03

I, STEVEN D. LEVISEE certify that this Water Quality Management Plan (WQMP) has been prepared under my responsible charge and as the engineer of record, I have read and understood the requirements of the Regional Board Order R8-2009-0030 as amended by Order No. R8-2010-0062, Section XII-B, the 2003 and 2007 Drainage Area Management Plan (DAMP), the City of Cypress Local Implementation Plan (LIP), Section 13-23 of the City of Cypress Municipal Code, and prepared this WQMP in compliance with all requirements thereto.
Furthermore, I attest that the WQMP for the development includes, but is not limited to the following:

1) Prioritization of the use of Low Impact Development principles as follows:
    a. Preserves natural features;
    b. Minimizes runoff and reduces impervious surfaces;
    c. Utilizes infiltration of runoff as the method of pollutant treatment.
2) Incorporation of the applicable Routine Source and Structural Control BMPs as defined in the Drainage Area Management Plan (DAMP).
3) Matching time of concentration, runoff, velocity, volume and hydrograph for a 2-year storm event, providing no increase in downstream erosion and avoids downstream impacts to physical structures, aquatic and riparian habitat.
4) Using alternative treatment controls (in lieu of standard) that meet the requirements of section 7.6.5 of the DAMP, and are equally or more effective in pollutant reduction than comparable BMPs.

Additionally, this WQMP contains information that:

1) Describes the long-term operation and maintenance requirements for structural and Treatment Control BMPs.
2) Identifies the entity or employees that will be responsible for long-term operation, maintenance, repair and or replacement of the structural and Treatment Control BMPs, and the training that qualifies such entity or employees to operate and maintain the BMPs.
3) Describes the recordkeeping requirements and contains a copy of the forms to be used in conducting maintenance and inspection activities.
4) Describes the mechanism for funding the long-term operation and maintenance of all structural and Treatment Control BMPs.

Engineer:			
Name	STEVEN D. LEVISEE		
Company	PBLA ENGINEERING, INC.		
Email	STEVEL@PBLA.BIZ		
Telephone #	888-714-9642 EXT. 2001		
Signature		Date	8/23/23

Registered Engineer's Seal

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Section I Discretionary Permit(s) and Water Quality Conditions..... 3

Section II Project Description 4

Section III Site Description 9

Section IV Best Management Practices (BMPs) 12

Section V Inspection/Maintenance Responsibility for BMPs..... 26

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Section VII Educational Materials 34

Site Specific Details..... 36

- *WQMP Site Plan*
- *Modular Wetlands System Details*
- *Storm Drain Pump System Details*
- *Hydrodynamic Separator Details*
- *Inlet Filter Details*

Attachments

Attachment A . .....Educational Materials

Attachment B . .....Geotechnical Infiltration Report

Attachment C . ..... Worksheet "B" - DCV Calculations

Attachment D . .....Worksheet "I" – Groundwater Feasibility

Attachment E.. .....Storage System Drawdown Calculations

Attachment F.. .....Maintenance Covenant & Operations and Maintenance Plan

Attachment G . .....Worksheet "J" – Harvest and Reuse Feasibility

Attachment H . ..... HCOC Exhibit & Calculations

Attachment I .. ..Exhibits

Attachment J .. ..BMP Fact Sheets

Section I Discretionary Permit(s) and Water Quality Conditions

Provide discretionary permit and water quality information. *Refer to Section 2.1 in the Technical Guidance Document (TGD) available from the Orange County Stormwater Program (ocwatersheds.com).*

Project Infomation			
Permit/Application No.	WQMP 23-x	Tract/Parcel Map No.	N/A
Additional Information/ Comments:	PLAZA DRIVE at DOUGLAS DRIVE – APN 241-101-25		
Water Quality Conditions			
Water Quality Conditions (list verbatim)	Will be provided in Final WQMP		
Watershed-Based Plan Conditions			
Provide applicable conditions from watershed - based plans including WIHMPs and TMDLS.	Anaheim Bay / Huntington Harbor Watershed – Bolsa Chica Channel WHIMPS: None TDML: None Listed		

Section II Project Description

II.1 Project Description

Provide a detailed project description including:

- Project areas;
- Design elements;
- A general description not broken down by drainage management areas (DMAs).

Include attributes relevant to determining applicable source controls. *Refer to Section 2.2 in the TGD for information that must be included in the project description.*

Description of Proposed Project		
Development Category (Verbatim from WQMP):	DEVELOPMENT CATEGORY #8 – All significant redevelopment projects, where significant redevelopment is defined as the addition or replacement of 5,000 or more square feet of impervious surface on an already developed site. Redevelopment does not include routine maintenance activities that are conducted to maintain original line and grade, hydraulic capacity, original purpose of the facility, or emergency redevelopment activity required to protect public health and safety. If the redevelopment results in the addition or replacement of less than 50 percent of the impervious area on-site and the existing development was not subject to WQMP requirement, the numeric sizing criteria discussed in Section 7.II-2.0 only applies to the addition or replacement area. If the addition or replacement accounts for 50 percent or more of the impervious area, the Project WQMP requirements apply to the entire development.	
Project Area (ft^2): 354,584 SF	Number of Dwelling Units: 0	SIC Code: 4225
Narrative Project Description:	The project entails select areas of demolition including the existing office building, existing curb, gutter, pavement and landscaping. existing utilities to the extent that they will interfere with the proposed project. The total site entails 8.45 acres. The proposed project will construct 1 concrete tilt industrial building along with site improvements such as truck courts, drive aisles, parking, sidewalks, and trash enclosures. Paving material for truck operations as well as automobile drives and parking will likely be entirely concrete. This buildings are speculative at this time so exact uses are not known; however, the buildings are typical of a logistics type of use. There will be no food preparation, cooking, or eating areas external to the buildings. Loading docks are designed as "dock high" and paving will be concrete. No materials are anticipated to be stored external to the buildings. Activity external to the building will be limited to	

<table>
<tr><td></td><td colspan="4">trucking operations, trailer storage, automobile driving & parking, There will be no vehicle or equipment maintenance or washing/cleaning. There will be no fueling operations at this site.
Landscaping will be drought tolerant plantings w/ drip system irrigation and will comply with City requirements.
The existing onsite storm drain will be removed.</td></tr>
<tr><td rowspan="2">Project Area</td><td colspan="2">Pervious</td><td colspan="2">Impervious</td></tr>
<tr><td>Area
(ac or sq ft)</td><td>Percentage</td><td>Area
(ac or sq ft)</td><td>Percentage</td></tr>
<tr><td>Pre-Project Conditions
(8.14 ac)</td><td>58,068 SF</td><td>16%</td><td>296,516 SF</td><td>84%</td></tr>
<tr><td>Post-Project Conditions
(8.45 ac)</td><td>29,718 SF</td><td>8%</td><td>338,276 SF</td><td>92%</td></tr>
<tr><td>Drainage Patterns/Connections</td><td colspan="4">The current drainage pattern for the existing site drains generally from the existing building and drains in all directions to the perimeter, then is to various area drains and catch basins in the project parking lot area. flows are then conveyed with storm drains to a main storm drain system in the southern parking lot eventually connecting to an existing storm drain that comes from Plaza Drive and drains to the west in south side of the proposed parking area.

The proposed drainage pattern will remain effectively the same by starting at the buildings and sheet flowing to the perimeter. Inlets and storm drains will convey runoff to a proposed underground storge box in the south-westerly parking lot area.
Hydrodynamic separators will be installed just upstream of each connection to the underground storage box to serv as pre-treatment before flows enter the storage system. These units remove large trash, debris and sediments to help reduce maintenance efforts for the storage system.
The underground storage chamber will be a cast-in-place reinforced concrete box (RCB) and will capture the DCV for the project. That DCV will then be pumped to a Modular Wetlands Unit(s) for treatment and discharged to the existing storm drain system. any overflow in excess of the DCV will be directed to the existing storm drain in the southern parking lot. Once the DCV is captured in the underground storage system, any excess flows will bypass the underground storage and be diverted directly to the existing storm drain system. Bypass will occur due to the storage system will be full, and storm flows will continue to the outlet as the invert of the underground system will</td></tr>
</table>

	be set to the soffit of the underground array. See the "Overflow and MWU Schematic" on the WQMP Site Plan.

II.2 Potential Stormwater Pollutants

Determine and list expected stormwater pollutants based on land uses and site activities. *Refer to Section 2.2.2 and Table 2.1 in the TGD for guidance.*

Pollutants of Concern			
Pollutant	Circle One: E=Expected to be of concern N=Not Expected to be of concern		Additional Information and Comments
Suspended-Solid/ Sediment	E	N	
Nutrients	E	N	
Heavy Metals	E	N	
Pathogens (Bacteria/Virus)	E	N	
Pesticides	E	N	
Oil and Grease	E	N	
Toxic Organic Compounds	E	N	
Trash and Debris	E	N	

II.3 Hydrologic Conditions of Concern

Determine if streams located downstream from the project area are determined to be potentially susceptible to hydromodification impacts. *Refer to Section 2.2.3.1 in the TGD for* NOC.

☐ No – Show map

☒ Yes – Describe applicable hydrologic conditions of concern below. *Refer to Section 2.2.3 in the TGD.*

The site is tributary to Bolsa Chica Channel which has sections that are not concrete lined.

Existing vs Developed condition 2yr-24 hour storm analysis was performed utilizing the TR-55 hydrology program. The developed condition does not increase the storm volume or the Time of Concentration.

The calculations are based on analyzing the entire area of development and any tributary areas in both existing and developed states. The TR-55 output is provided in the Attachments.

The Runoff volume for the existing (V_{EXIST}) and developed (V_{PROP}) condition are equal, therefore V_{PROP} / V_{EXIST} is ≤ 1.05. The runoff volume difference (Δ) [2YR, 24HR] between the existing and developed states equals zero. The Design Capture Volume determined using the 85th Percentile Storm event equals 0.6 ac-ft. Therefore runoff Δ[2YR, 24HR] is not greater than 85th Percentile Storm (DCV). The Time of Concentration for the existing (Tc_{EXIST}) and developed (Tc_{PROP}) condition are 0.132 and 0.100, respectively, therefore Tc_{PROP} / Tc_{EXIST} is ≤ 1.05. As a result of the runoff volume and time of concentration being managed to meet these criteria, HCOC are mitigated.

II.4 Post Development Drainage Characteristics

Describe post development drainage characteristics. *Refer to Section 2.2.4 in the TGD.*

Generally, the Site will maintain a very similar drainage pattern as the existing condition. The site will drain toward the perimeter and runoff will be directed to U/G storage. The ultimate discharge from the Site will be to the same Storm Drain as the existing condition. The existing storm drain outlets from the Site at the Southwest corner of the Site near the proposed driveway at Plaza Dr.

The proposed LID BMPs are limited to Biotreatment utilizing underground detention and treatment via Modular Wetlands Unit(s). A Hydrodynamic Separator will be utilized as pre-treatment for storm water entering the underground system.

The storm drain is tributary to the Bolsa Chica Channel, which in turn drains to the Anaheim Bay / Huntington Harbor and the Pacific Ocean.

II.5 Property Ownership/Management

Describe property ownership/management. *Refer to Section 2.2.5 in the TGD.*

OWNER: GLC CYPRESS LLC will perform all maintenance and repair functions for all proposed BMPs and general site maintenance.

Person responsible for maintenance:

Mr. Bryant Mork
3333 Michelson Dr
Suite 1050
Irvine, CA 92612
Bryant.mork@goodman.com
949.407.0100

There is no intent to transfer any responsibility to any other entity, POA or agency.

Section III Site Description

III.1 Physical Setting

Fill out table with relevant information. *Refer to Section 2.3.1 in the TGD.*

Planning Area/ Community Name	McDonnell Center Specific Plan
Location/Address	5665 PLAZA DRIVE
	CYPRESS, CA 90630
Land Use	PC-3 PLANNED COMMUNITY ZONE
Zoning	PC-3 PLANNED COMMUNITY ZONE
Acreage	8.45 ac - ENTIRE PARCEL
Predominant Soil Type	B

III.2 Site Characteristics

Fill out table with relevant information and include information regarding BMP sizing, suitability, and feasibility, as applicable. Refer to Section 2.3.2 in the TGD.

Precipitation Zone	*0.85*
Topography	The project site is currently being used as an office facility with site parking, drive aisle, and landscape improvements typical of these type of developments. The building is currently unoccupied. The site drains generally in all directions to the perimeter. Existing pavement slopes within the existing site are generally between 0.5% to approximately 3%. Elevations of the site range between 34 to 38. There are no environmentally sensitive areas in the area of the project or near the site.
Drainage Patterns/Connections	The current drainage pattern for the existing site is generally in all directions to the perimeter, then is to various area drains and catch basins in the project parking lot area. Flows are then piped to a main storm drain system in the southern parking lot eventually connecting to an existing drain in plaza dr. The proposed drainage pattern will remain effectively the same and will capture the majority of the project area by flowing to underground storm

	drain by way of proposed curbs and gutters. These drains will connect to underground storage box to capture dcv for the project. That dcv will then be treated with a modular a wetlands unit and discharged to the existing storm drain system. Any overflow in excess of the dcv will be directed to the existing storm drain in the southern parking lot.
Soil Type, Geology, and Infiltration Properties	Artificial fill soils were encountered beneath the pavements at all boring locations, extending from depths of 2½ to 7± feet below ground surface. The fill soils generally consist of loose to medium Dense silty fine sands and fine sands with variable medium to coarse sand and clay content. The fill soils possess a disturbed and mottled appearance, resulting in their classification as artificial fill.

Site Characteristics (continued)

Hydrogeologic (Groundwater) Conditions	Free water was encountered during the drilling at all boring locations. Water was encountered at depths between 6 and 9½± feet below existing site grades. A delayed groundwater measurement Was taken at boring no. B-2 about, 5½ hours after the augers were withdrawn from the boring. At this time, free water was measured within the open borehole at a depth of 7½± feet below the existing ground surface.
Geotechnical Conditions (relevant to infiltration)	Mounded seasonally high groundwater conditions exist onsite. Due to the high groundwater, the use of infiltration BMPs is not feasible. As part of the geotechnical report research, they reviewed available groundwater data in order to determine the historic high groundwater level for the site. The primary reference used to determine the historic groundwater depths in this area is the California geological survey (cgs) open file report 98-10, the seismic hazard zone report for the Los Alamitos 7.5-minute quadrangle, which indicates that the historic high groundwater level for the site was about 10 feet below the ground surface. Recent water level data was obtained from the California state water resources control board, Geotracker, website, https://geotracker.waterboards.ca.gov/. Three monitoring wells on record are located 1,600± northeast of the site. Water level readings within these monitoring wells indicate a high groundwater level of 6½± feet below the ground surface in September 2004.
Off-Site Drainage	There is no run-on into the project area.
Utility and Infrastructure Information	*All existing utilities within the re-construction area will be removed.*

III.3 Watershed Description

Fill out table with relevant information and include information regarding BMP sizing, suitability, and feasibility, as applicable. *Refer to Section 2.3.3 in the TGD.*

Receiving Waters	BOLSA CHICA CHANNEL / ANAHEIM BAY-HUNTINGTON HARBOR / PACIFIC OCEAN
303(d) Listed Impairments	Bolsa Chica Channel: Ammonia (Unionized) (73788), pH (77494), Indicator Bacteria (77714) Huntington Harbor: Chlordane (68183), Copper (68882), PCBs (Polychlorinated biphenyls) (70200), Toxicity (76729), Lead (80431), Indicator Bacteria (97909) Anaheim Bay: Nickel (69290), Toxicity (69325), PCBs (Polychlorinated biphenyls) (78840)
Applicable TMDLs	NONE
Pollutants of Concern for the Project	Suspended-Solid/ Sediment Nutrients Heavy Metals Pathogens (Bacteria/Virus) Pesticides Oil and Grease Toxic Organic Compounds Trash and Debris
Environmentally Sensitive and Special Biological Significant Areas	NONE

Section IV Best Management Practices (BMPs)

IV. 1 Project Performance Criteria

Describe project performance criteria. Several steps must be followed in order to determine what performance criteria will apply to a project. These steps include:

- If the project has an approved WIHMP or equivalent, then any watershed specific criteria must be used and the project can evaluate participation in the approved regional or sub-regional opportunities. The local Permittee planning or NPDES staff should be consulted regarding the existence of an approved WIHMP or equivalent.
- Determine applicable hydromodification control performance criteria. *Refer to Section 7.II-2.4.2.2 of the Model WQMP.*
- Determine applicable LID performance criteria. *Refer to Section 7.II-2.4.3 of the Model WQMP.*
- Determine applicable treatment control BMP performance criteria. *Refer to Section 7.II-*3.2.2 *of the Model WQMP.*
- Calculate the LID design storm capture volume for the project. *Refer to Section 7.II-2.4.3 of the Model WQMP.*

(NOC Permit Area only) Is there an approved WIHMP or equivalent for the project area that includes more stringent LID feasibility criteria or if there are opportunities identified for implementing LID on regional or sub-regional basis?	YES ☐	NO ☒
If yes, describe WIHMP feasibility criteria or regional/sub-regional LID opportunities.	N/A	

Project Performance Criteria (continued)	
If HCOC exists, list applicable hydromodification control performance criteria (Section 7.II-2.4.2.2 in MWQMP)	HCOC is a concern for the Bolsa Chica Channel. Attachment H provides pre-developed and developed condition hydrology calculations for the 2 hour storm event. The Runoff volume for the existing (V_{EXIST}) and developed (V_{PROP}) condition are equal, therefore V_{PROP} / V_{EXIST} is ≤ 1.05. The runoff volume difference (Δ) [2YR, 24HR] between the existing and developed states equals zero. The Design Capture Volume determined using the 85th Percentile Storm event equals 0.6 ac-ft. Therefore runoff Δ[2YR, 24HR] is not greater than 85th Percentile Storm (DCV). The Time of Concentration for the existing (Tc_{EXIST}) and developed (Tc_{PROP}) condition are 0.132 and 0.100, respectively, therefore Tc_{PROP} / Tc_{EXIST} is ≤ 1.05. As a result of the runoff volume and time of concentration being managed to meet these criteria, HCOC are mitigated.
List applicable LID performance criteria (Section 7.II-2.4.3 from MWQMP)	Priority projects must infiltrate, harvest and use, evapotranspire, or biotreat/biofilter, the 85th percentile, 24-hour storm event (design capture volume).
List applicable treatment control BMP performance criteria (Section 7.II-3.2.2 from MWQMP)	N/A
Calculate LID design storm capture volume for Project.	25,766 cu-Ft Total – See DCV Worksheets In Attachments For Individual DMA DCV

IV.2. SITE DESIGN AND DRAINAGE PLAN

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 is designed to allow BMPs to be incorporated to the MEP
- A table of DMA characteristics and list of LID BMPs proposed in each DMA.
- Reference to the WQMP plot plan.
- Calculation of Design Capture Volume (DCV) for each drainage area.
- A listing of GIS coordinates for LID and Treatment Control BMPs (unless not required by local jurisdiction).

Refer to Section 2.4.2 in the TGD.

Due to the high and seasonally mounded groundwater, traditional infiltration BMPs are not feasible for this project.

Site design will incorporate capture and treat BMPs. A cast-in-place RCB storage box or approved equal will separate the storm water runoff from the existing high ground water.

The total site area is 8.45 acres, and the entirety of the site is tributary to the underground storage and treatment system. and will be 92% impervious in the developed condition. The area will sheet flow to area catch basins and be directed to underground storage.

Pre-treatment to capture debris and pollutants before entering the collection system will be accomplished with Hydrodynamic Separators prior to stormwater entering the underground storage system.

The DCV calculations are given in the attachments and is 25,766 cu-ft. total.

The DCV will be treated by pumping the stored volume though a Proprietary Biotreatment System in accordance with Fact Sheet BIO-7 (Modular Wetlands Unit) to treat the volume within 48 hrs.

IV.3 LID BMP SELECTION AND PROJECT CONFORMANCE ANALYSIS

Each sub-section below documents that the proposed design features conform to the applicable project performance criteria via check boxes, tables, calculations, narratives, and/or references to worksheets. *Refer to Section 2.4.2.3 in the TGD for selecting LID BMPs and Section 2.4.3 in the TGD for conducting conformance analysis with project performance criteria.*

IV.3.1 Hydrologic Source Controls

If required HSCs are included, fill out applicable check box forms. If the retention criteria are otherwise met with other LID BMPs, include a statement indicating HSCs not required.

Name	Included?
Localized on-lot infiltration	☐
Impervious area dispersion (e.g. roof top disconnection)	☐
Street trees (canopy interception)	☐
Residential rain barrels (not actively managed)	☐
Green roofs/Brown roofs	☐
Blue roofs	☐
Impervious area reduction (e.g. permeable pavers, site design)	☐
Other:	☐
Other:	☐
Other:	☐
Other:	☐
Other:	☐
Other:	☐
Other:	☐
Other:	☐

Retention met with the proposed storage / biotreatment system – HSCs not required

IV.3.2 Infiltration BMPs

Identify infiltration BMPs to be used in project. If design volume cannot be met state why BMPs cannot be met.

Name	Included?
Bioretention without underdrains	☐
Rain gardens	☐
Porous landscaping	☐
Infiltration planters	☐
Retention swales	☐
Infiltration trenches	☐
Infiltration basins	☐
Drywells	☐
Subsurface infiltration galleries	☐
French drains	☐
Permeable asphalt	☐
Permeable concrete	☐
Permeable concrete pavers	☐
Other:	☐
Other:	☐

Show calculations below to demonstrate if the LID Design Strom Capture Volume can be met with infiltration BMPs. If not document how much can be met with infiltration and document why it is not feasible to meet the full volume with infiltration BMPs.

Infiltration BMPs cannot be used due to high and mounded groundwater. Infiltration BMPs can only be considered if mounded groundwater elevations are at least 10 feet below the bottom elevation of infiltration system. Per the Geotechnical Investigation Report, Ground water is well above any proposed infiltration system. Raising the site elevations to attain elevation conducive to infiltration was studied and was found to be not feasible. See soils report for documentation, and Worksheet I in the Attachments.
Proposed design is to capture the required DCV, treat with Proprietary Biotreatment and release.
Please see the following Attachments:
C – DCV Calculations
D – Groundwater Feasibility

IV.3.3 Evapotranspiration, Rainwater Harvesting BMPs

If the full Design Storm Capture Volume cannot be met with infiltration BMPs, describe any evapotranspiration, rainwater harvesting BMPs. – NONE – See worksheet "J" in Appendix

Name	Included?
All HSCs; *See Section IV.3.1*	☐
Surface-based infiltration BMPs	☐
Biotreatment BMPs	☐
Above-ground cisterns and basins	☐
Underground detention	☐
Other:	☐
Other:	☐
Other:	☐

Show calculations below to demonstrate if the LID Design Strom Capture Volume can be met with evapotranspiration, rainwater harvesting BMPs in combination with infiltration BMPs. If not document how much can be met with either infiltration BMPs, evapotranspiration, rainwater harvesting BMPs, or a combination, and document why it is not feasible to meet the full volume with either of these BMPs categories.

These BMPs are not feasible as indicated on Worksheet "J" in the Appendix

IV.3.4 Biotreatment BMPs

If the full Design Storm Capture Volume cannot be met with infiltration BMPs, and/or evapotranspiration and rainwater harvesting BMPs, describe biotreatment BMPs. Include sections for selection, suitability, sizing, and infeasibility, as applicable.

Name	Included?
Bioretention with underdrains	☐
Stormwater planter boxes with underdrains	☐
Rain gardens with underdrains	☐
Constructed wetlands	☐
Vegetated swales	☐
Vegetated filter strips	☐
Proprietary vegetated biotreatment systems	☒
Wet extended detention basin	☐
Dry extended detention basins	☐
Other:	☐
Other:	☐

Show calculations below to demonstrate if the LID Design Storm Capture Volume can be met with infiltration, evapotranspiration, rainwater harvesting and/or biotreatment BMPs. If not document how much can be met with either infiltration BMPs, evapotranspiration, rainwater harvesting BMPs, or a combination, and document why it is not feasible to meet the full volume with either of these BMPs categories.

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. Modular Wetlands System (BIO-7) is a proprietary Vegetated Biotreatment System that will be specified for this Project.
The treated water then enters the drain pipe downstream of the Modular Wetlands System 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.

IV.3.5 Hydromodification Control BMPs

Describe hydromodification control BMPs. See Section 5 TGD. Include sections for selection, suitability, sizing, and infeasibility, as applicable. Detail compliance with Prior Conditions of Approval. – N/A

Hydromodification Control BMPs	
BMP Name	**BMP Description**
N/A	

IV.3.6 Regional/Sub-Regional LID BMPs

Describe regional/sub-regional LID BMPs in which the project will participate. *Refer to Section 7.II-2.4.3.2 of the Model WQMP*.

Regional/Sub-Regional LID BMPs
N/A

IV.3.7 Treatment Control BMPs

Treatment control BMPs can only be considered if the project conformance analysis indicates that it is not feasible to retain the full design capture volume with LID BMPs. Describe treatment control BMPs including sections for selection, sizing, and infeasibility, as applicable.

Treatment Control BMPs

BMP Name	BMP Description
Inlet Filters (AbTech Ultra Urban – Filter CO for curb opening, and Ultra Urban – Filter DI for graded basins)	Catch Basin inserts for pre-treatment upstream of U/G storage
Hydrodynamic Separator (ADS Barracuda Max Model S4)	Barracuda HDS units will be placed upstream of u/g storage entrances.

IV.3.8 Non-structural Source Control BMPs

Fill out non-structural source control check box forms or provide a brief narrative explaining if non-structural source controls were not used.

Non-Structural Source Control BMPs				
Identifier	**Name**	**Check One**		**If not applicable, state brief reason**
		Included	**Not Applicable**	
N1	Education for Property Owners, Tenants and Occupants	☒	☐	
N2	Activity Restrictions	☒	☐	
N3	Common Area Landscape Management	☒	☐	
N4	BMP Maintenance	☒	☐	
N5	Title 22 CCR Compliance (How development will comply)	☐	☒	N/A
N6	Local Industrial Permit Compliance	☐	☒	Spec Building – Exact use unknown
N7	Spill Contingency Plan	☐	☒	Spec Building – Exact use unknown
N8	Underground Storage Tank Compliance	☐	☒	NONE PROPOSED
N9	Hazardous Materials Disclosure Compliance	☐	☒	NO HAZARDOUS MATERIALS WILL BE USED
N10	Uniform Fire Code Implementation	☐	☒	N/A
N11	Common Area Litter Control	☒	☐	
N12	Employee Training	☒	☐	
N13	Housekeeping of Loading Docks	☒	☐	
N14	Common Area Catch Basin Inspection	☒	☐	
N15	Street Sweeping Private Streets and Parking Lots	☒	☐	
N16	Retail Gasoline Outlets	☐	☒	NONE PROPOSED

IV.3.9 Structural Source Control BMPs

Fill out structural source control check box forms or provide a brief narrative explaining if Structural source controls were not used.

Structural Source Control BMPs				
Identifier	**Name**	**Check One**		**If not applicable, state brief reason**
		Included	**Not Applicable**	
S1	Provide storm drain system stenciling and signage	☒	☐	
S2	Design and construct outdoor material storage areas to reduce pollution introduction	☐	☒	NONE PROPOSED
S3	Design and construct trash and waste storage areas to reduce pollution introduction	☒	☐	
S4	Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control	☒	☐	
S5	Protect slopes and channels and provide energy dissipation	☐	☒	NONE PROPOSED
	Incorporate requirements applicable to individual priority project categories (from SDRWQCB NPDES Permit)	☐	☒	NONE PROPOSED
S6	Dock areas	☒	☐	
S7	Maintenance bays	☐	☒	NONE PROPOSED
S8	Vehicle wash areas	☐	☒	NONE PROPOSED
S9	Outdoor processing areas	☐	☒	NONE PROPOSED
S10	Equipment wash areas	☐	☒	NONE PROPOSED
S11	Fueling areas	☐	☒	NONE PROPOSED
S12	Hillside landscaping	☐	☒	NONE PROPOSED
S13	Wash water control for food preparation areas	☐	☒	NONE PROPOSED
S14	Community car wash racks	☐	☒	NONE PROPOSED

IV.4 ALTERNATIVE COMPLIANCE PLAN (IF APPLICABLE)

IV.4.1 Water Quality Credits

Determine if water quality credits are applicable for the project. *Refer to Section 3.1 of the Model WQMP for description of credits and Appendix VI of the TGD for calculation methods for applying water quality credits.*

<table>
<tr><th colspan="5">Description of Proposed Project</th></tr>
<tr><td colspan="5">Project Types that Qualify for Water Quality Credits (Select all that apply):</td></tr>
<tr><td colspan="2">☐Redevelopment projects that reduce the overall impervious footprint of the project site.</td><td colspan="2">☐Brownfield redevelopment, meaning redevelopment, expansion, or reuse of real property which may be complicated by the presence or potential presence of hazardous substances, pollutants or contaminants, and which have the potential to contribute to adverse ground or surface WQ if not redeveloped.</td><td>☐ Higher density development projects which include two distinct categories (credits can only be taken for one category): those with more than seven units per acre of development (lower credit allowance); vertical density developments, for example, those with a Floor to Area Ratio (FAR) of 2 or those having more than 18 units per acre (greater credit allowance).</td></tr>
<tr><td colspan="2">☐ Mixed use development, such as a combination of residential, commercial, industrial, office, institutional, or other land uses which incorporate design principles that can demonstrate environmental benefits that would not be realized through single use projects (e.g. reduced vehicle trip traffic with the potential to reduce sources of water or air pollution).</td><td colspan="2">☐ Transit-oriented developments, such as a mixed use residential or commercial area designed to maximize access to public transportation; similar to above criterion, but where the development center is within one half mile of a mass transit center (e.g. bus, rail, light rail or commuter train station). Such projects would not be able to take credit for both categories, but may have greater credit assigned</td><td>☐ Redevelopment projects in an established historic district, historic preservation area, or similar significant city area including core City Center areas (to be defined through mapping).</td></tr>
<tr><td>☐Developments with dedication of undeveloped portions to parks, preservation areas and other pervious uses.</td><td>☐ Developments in a city center area.</td><td>☐ Developments in historic districts or historic preservation areas.</td><td>☐ Live-work developments, a variety of developments designed to support residential and vocational needs together – similar to criteria to mixed use development; would not be able to take credit for both categories.</td><td>☐In-fill projects, the conversion of empty lots and other underused spaces into more beneficially used spaces, such as residential or commercial areas.</td></tr>
<tr><td>Calculation of Water Quality Credits
(if applicable)</td><td colspan="4">Project does not qualify for Water Quality Credits</td></tr>
</table>

IV.4.2 Alternative Compliance Plan Information

Describe an alternative compliance plan (if applicable). Include alternative compliance obligations (i.e., gallons, pounds) and describe proposed alternative compliance measures. *Refer to Section 7.II 3.0 in the WQMP.*

Section V Inspection/Maintenance Responsibility for BMPs

Fill out information in table below. Prepare and attach an Operation and Maintenance Plan. Identify the mechanism through which BMPs will be maintained. Inspection and maintenance records must be kept for a minimum of five years for inspection by the regulatory agencies. *Refer to Section 7.II 4.0 in the Model WQMP. Include the costs of installation and maintenance of all structural post construction BMPs.*

BMP Inspection/Maintenance			
BMP	**Reponsible Party(s)**	**Inspection/ Maintenance Activities Required**	**Minimum Frequency of Activities**
Education for Property Owners, Tenants and Occupants	GLC Cypress, LLC	Educational materials will be provided to tenants, including brochures and restrictions to reduce pollutants from reaching the storm drain system. Examples include tips for pet care, household tips, and proper household hazardous waste disposal. Additional materials are available through the County of Orange Stormwater Program website (http://ocwatersheds.com/PublicEd/) and the California Stormwater Quality Association's (CASQA) BMP Handbooks (http://www.casqa.org/resources/bmphandbooks).	Tenants will be provided with these materials by the property management prior to occupancy, and periodically thereafter. Refer to Section VII for a list of materials available and attached to this WQMP.
Activity Restrictions	GLC Cypress, LLC	The Owner/HOA shall develop ongoing activity restrictions that include those that have the potential to create adverse impacts on water quality. Activities include, but are not limited to: handling and disposal of contaminants, fertilizer and pesticide application restrictions, litter control and pick-up, and vehicle or equipment repair and maintenance in non-designated areas, as well as any other activities that may potentially contribute to water pollution.	Ongoing

BMP Maintenance	GLC Cypress, LLC	Maintenance of structural BMPs implemented at the project site shall be performed at the frequency prescribed in this WQMP (Appendix D). Records of inspections and BMP maintenance shall be kept by the Owner/HOA and shall be available for review upon request.	Ongoing
Common Area Landscape Management	GLC Cypress, LLC	Maintenance shall be consistent with City requirements. Fertilizer and/or pesticide usage shall be consistent with County Management Guidelines for Use of Fertilizers (OC DAMP Section 5.5) as well as local requirements. Maintenance includes mowing, weeding, and debris removal on a weekly basis. Trimming, replanting, and replacement of mulch shall be performed on an as-needed basis to prevent exposure of erodible surfaces. Trimmings, clippings, and other landscape wastes shall be properly disposed of in accordance with local regulations. Materials temporarily stockpiled during maintenance activities shall be placed away from water courses and storm drain inlets.	Monthly
Common Area Litter Control	GLC Cypress, LLC	The Owner will be responsible for performing trash pickup and sweeping of littered common areas. Responsibilities will also include noting improper disposal materials by the public and reporting such violations for investigation.	Weekly or as necessary
Employee Training	GLC Cypress, LLC	All employees and any contractors will require training to ensure that employees are aware of maintenance activities that may result in pollutants reaching the storm drain. Training will include, but not be limited to, spill cleanup procedures, proper waste disposal, housekeeping practices, etc.	Annually
Housekeeping of Loading Docks	GLC Cypress, LLC	Inspect loading dock for litter, spills, broken containers, and broken containers. Remove litter and debris and sweep docking area. Check that loading dock is covered and isolated with no run-on or run-off to other areas or the storm drain system. Repair, redesign, regrade, etc. to correct deficiencies. If spills of hazardous materials occur, clean up spill, but prevent wash water from entering storm drain system.	Quarterly
Design and construct trash and waste storage areas to reduce pollution introduction	GLC Cypress, LLC	Sweep trash area at least once per week and before October 1st each year. Maintain area clean of trash and debris at all times.	Weekly

Common Area Catch Basin Inspection	GLC Cypress, LLC	On-site catch basin inlets and other drainage facilities shall be inspected at least once per year, prior to the start of the rainy season (October 1st). Inlets and other facilities shall be cleaned when the sump is 40% full and annually at a minimum.	Must be inspected and cleaned as needed prior to October 1 of each year (Beginning of rainy season)
Street Sweeping Private Streets and Parking Lots	GLC Cypress, LLC	Streets, parking areas and alleyways within the project shall be swept at a minimum frequency quarterly as well as once per year prior to the storm season, no later than October 1 each year.	Quarterly
Provide Storm Drain System Stenciling and Signage	GLC Cypress, LLC	On-site storm drain stencils shall be inspected for legibility, at minimum, once prior to the storm season, no later than October 1 each year. Those determined to be illegible will be re-stenciled as soon as possible.	Annually
Modular Wetlands	GLC Cypress, LLC	The Modular Wetland units shall be maintained in accordance with manufacturer's specifications. The system shall be inspected at a minimum of once every six months, prior to the start of the rainy season (October 1) each year, and after major storm events. Typical maintenance includes: ▪ Removing trash & debris from the catch basin screening filter (by hand). ▪ Removal of sediment and solids in the settlement chamber (vacuum truck). ▪ Replacement of the BioMediaGREENTM filter cartridge and drain-down filter (if equipped) ▪ Trim plants within the wetland chamber as needed in conjunction with routine landscape maintenance activities. No fertilizer shall be used. ▪ Wetland chamber should be inspected during rain events to verify flow through the system. If little to no flow is observed from the lower valve or orifice plate, the wetland media may require replacement.	Must be inspected and cleaned as needed prior to October 1 of each year (Beginning of rainy season) and Inspection should be made twice per calendar year
Underground Storage System (RCB)	GLC Cypress, LLC	Inspect system via the maintenance port for infiltration of collected runoff after major rain events and at least semi-annually, once prior to the rainy season and once after the rainy season. Ensure that facility drains within 48 hours. Should drawdown times get significantly reduced due to sediment buildup, flush system by injecting high pressure water via	Must be inspected and cleaned as needed prior to October 1 of each year (Beginning

		the maintenance port and remove sediment laden water via sump pump.	of rainy season) and Inspection should be made twice per calendar year
Hydrodynamic Separator (ADS Barracuda Max)	GLC Cypress, LLC	Typical maintenance includes inspecting the system at a minimum of once every six months. The cleaning and debris removal maintenance from the settling chamber a minimum of once year and replacement of hydrocarbon booms once a year. The procedure is easily done with the use of any standard vacuum truck. Media shall be replaced when it has become 75% clogged, typically once per year at a minimum.	Must be inspected and cleaned as needed prior to October 1 of each year (Beginning of rainy season) and Inspection should be made twice per calendar year
Storm Drain Ejector Pump System – Primary & Secondary	GLC Cypress, LLC	Proper operation and inspection would include the following: 1) Automatic operation of the system by float activation. One pump starting at lead on levels, second pump starting at high level conditions; manual operation by use of the selector switches. 2) Inspect floats for proper elevation and for proper movement. Correct any obstructions. 3) Check incoming power for proper voltage. Check voltage at motor connections. 4) Check amperage of each motor. 5) Hose down lift station to clean the walls of the wet well, pumps and floats.	Must be inspected and cleaned as needed prior to October 1 of each year (Beginning of rainy season) and Inspection should be made twice per calendar year

Notes:
1) Rainy season begins October 1 of each year.
2) Annual budget for maintenance is approximately $12,000/yr
3) U/G storage system will be emptied within 48 hours after any given rain event, thereby minimizing vector potential.
4) In the event of a pump failure, O.C. Vector Control (714) 971-2421 shall be contacted if underground storage volume cannot be emptied withing 48 hours after the end of any given rain event.

Section VI Site Plan and Drainage Plan

VI.1 SITE PLAN AND DRAINAGE PLAN

Include a site plan and drainage plan sheet set containing the following minimum information:

- Project location
- Site boundary
- Land uses and land covers, as applicable
- Suitability/feasibility constraints
- Structural BMP locations with GPS coordinates in decimal degrees (DD) format
- Drainage delineations and flow information
- Drainage connections
- BMP details

VI.2 ELECTRONIC DATA SUBMITTAL

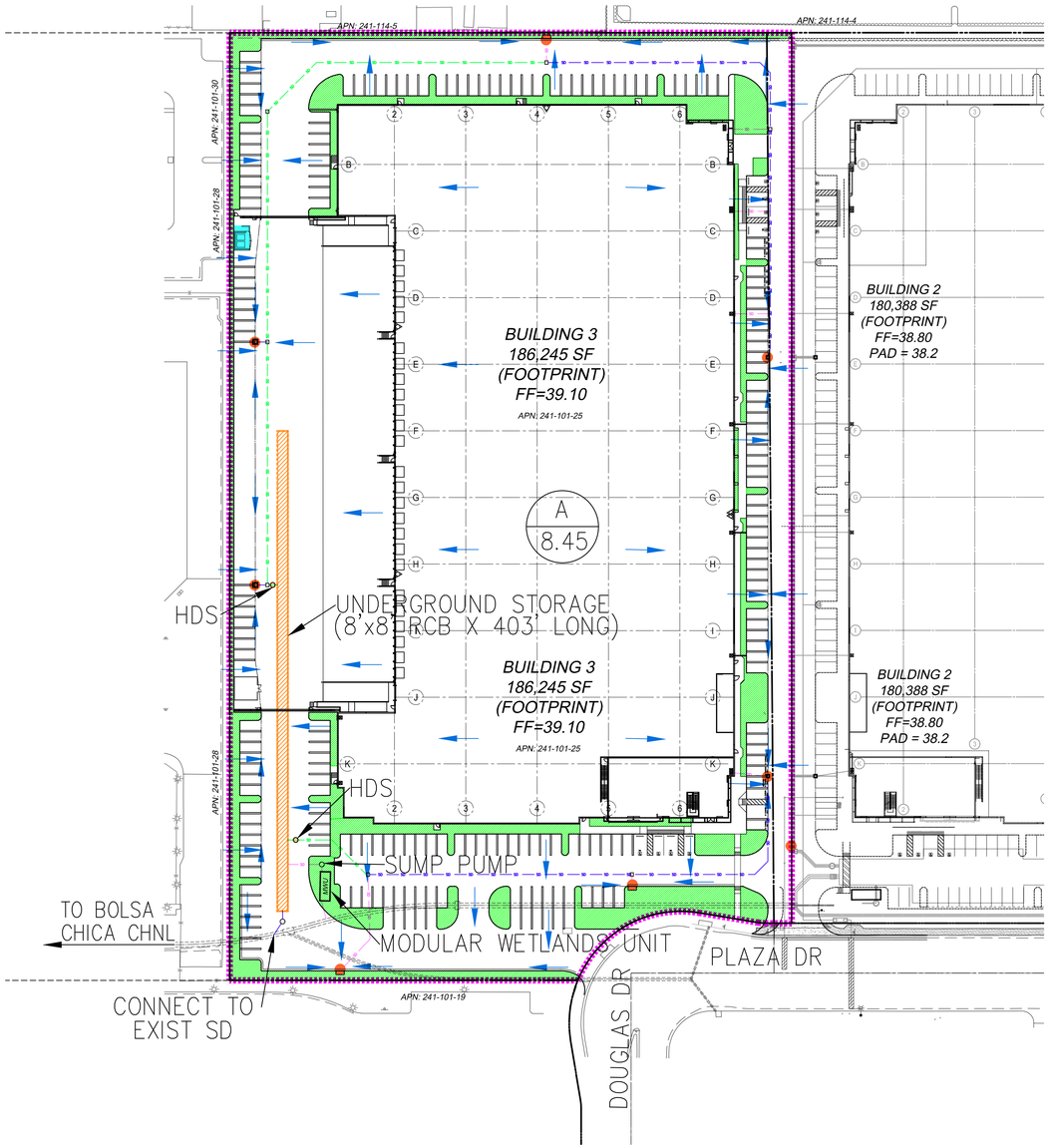
The minimum requirement is to provide submittal of PDF exhibits in addition to hard copies after approval. Format must not require specialized software to open.

If the local jurisdiction requires specialized electronic document formats (CAD, GIS) to be submitted, this section will be used to describe the contents (e.g., layering, nomenclature, georeferencing, etc.) of these documents so that they may be interpreted efficiently and accurately.

Site Specific Details:

1) **WQMP Site Plan**
2) **Modular Wetlands System Details**
3) **Storm Drain Pump System Details**
4) **Hydrodynamic Separator Details**
5) **Inlet Filter Details**
6) **Trench Drain Details**

WQMP SITE PLAN



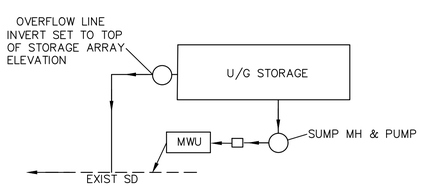
NOTE: ALL CATCH BASIN INLETS SHALL BE STENCILED WITH "NO DUMPING–DRAINS TO OCEAN"

NO DUMPING DRAINS TO OCEAN

STENCIL DETAIL

N.T.S.

NOTE: ALL INLETS SHALL BE FITTED WITH AN APPROPRIATE INLET FILTER AND AFFIXED WITH A STENCIL PER DETAIL ABOVE –7 EA



OVERFLOW AND MWU SCHEMATIC

NTS

NOTE: PUMP AND MWU ARE SIZED TO PROVIDE 72 GPM TO EMPTY THE U/G STORAGE VOLUME WITHIN 48 HOURS

SEE SHEET 2 FOR DETAILS

NON–STRUCTURAL BMPS

PROPERTY OWNER EDUCATION
ACTIVITY RESTRICTIONS
COMMON AREA LANDSCAPE MAINTENANCE
BMP MAINTENANCE
LOCAL INDUSTRIAL PERMIT COMPLIANCE
SPILL CONTINGENCY PLAN
UNIFORM FIRE CODE IMPLEMENTATION
COMMON AREA LITTER CONTROL
EMPLOYEE TRAINING
ACTIVITY RESTRICTIONS
HOUSEKEEPING OF LOADING DOCKS
COMMON AREA CATCH BASIN INSPECTION
PARKING LOT SWEEPING

PROJECT DATA:

EXISTING SITE AREA = 354,584 SF (8.14 AC)
ADDED BY LOT LINE ADJ = 13,410 SF (0.31 AC)
TOTAL SITE AREA = 367,994 (8.45 AC)

CURRENT USE: OFFICE / INDUSTRIAL
PROPOSED USE: LIGHT INDUSTRIAL

WATERSHED:
SANTA ANA REGION
BOLSA CHICA CHANNEL
HUNTINGTON HARBOR
ANAHEIM BAY
PACIFIC OCEAN

DMA "A" DATA

TOTAL AREA TRIBUTARY TO TREATMENT = 367,994 SF (8.45 AC)

ROOF AREA: 186,245 SF
PAVED AREA: 152,031 SF

ONSITE LANDSCAPE: 29,718 SF

0.920 IMPERVIOUS RATIO

DESIGN CAPTURE VOLUME: = 25,766 CF

LEGEND — STRUCTURAL / TREATMENT BMPS

- UNDERGROUND STORM WATER STORAGE SYSTEM (CAPACITY = 25,766 CF)
- PROPOSED DROUGHT TOLERANT LANDSCAPING WITHIN DMA "A"
- COVERED TRASH ENCLOSURE AREA
- HYDRO DYNAMIC SEPARATOR (HDS) (ADS BARRACUDA MAX)
- STENCIL & INLET FILTER
- DMA LIMITS
- SD — PROPOSED STORM DRAIN SYSTEM
- SURFACE FLOW DIRECTION

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

PREPARED BY:

PBLA ENGINEERING, INC.
Planning • Engineering • Surveying
1809 E. DYER ROAD, STE 301
SANTA ANA, CALIF. 92705
(888) 714-9642 • (714)389-9191 FAX

Sep 20 2023

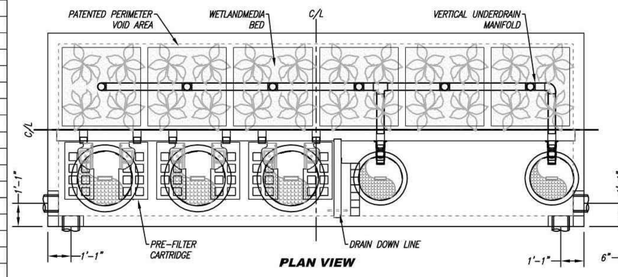
SITE PLAN

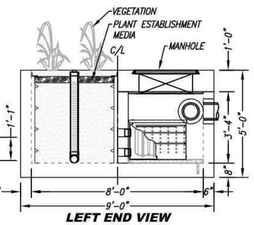
PRELIM WATER QUALITY MANAGEMENT PLAN

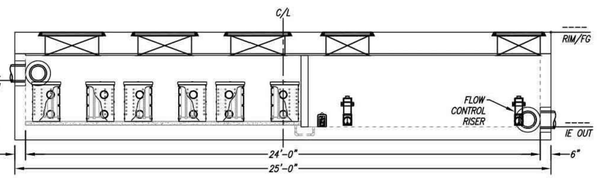
GCC - CYPRESS BLD 3

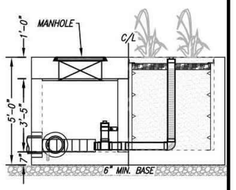
PLAZA DRIVE - CYPRESS, CA

SITE SPECIFIC DATA			
PROJECT NUMBER		----	
PROJECT NAME		----	
PROJECT LOCATION		----	
STRUCTURE ID		----	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
TREATMENT HGL AVAILABLE (FT)			
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	----	PVC	8"
INLET PIPE 2	N/A	N/A	N/A
OUTLET PIPE	----	PVC	8"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	----	----	----
SURFACE LOAD	PARKWAY	OPEN PLANTER	PARKWAY
FRAME & COVER	3 EA ø30"	N/A	2 EA ø24"
WETLANDMEDIA VOLUME (CY)			TBD
WETLANDMEDIA DELIVERY METHOD			PER CONTRACT
ORIFICE SIZE (DIA. INCHES)			TBD
NOTES:			









INSTALLATION NOTES

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3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. IE IN (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURERS STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
4. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES. 6"
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
6. DRIP OR SPRAY IRRIGATION REQUIRED ON ALL UNITS WITH VEGETATION.
7. CONTRACTOR RESPONSIBLE FOR CONTACTING MODULAR WETLANDS FOR ACTIVATION OF UNIT. MANUFACTURES WARRANTY IS VOID WITH OUT PROPER ACTIVATION BY A MODULAR WETLANDS REPRESENTATIVE.

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TREATMENT FLOW (CFS)	0.693
OPERATING HEAD (FT)	3.4
PRETREATMENT LOADING RATE (GPM/SF)	2.0
WETLAND MEDIA LOADING RATE (GPM/SF)	1.0

THE PRODUCT DESCRIBED MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS: 7,425,262; 7,470,362; 7,674,378; 8,303,816; RELATED FOREIGN PATENTS OR OTHER PATENTS PENDING

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MODULAR WETLANDS

MWS-L-8-24-V
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

MODULAR WETLANDS UNIT DETAIL
NTS

ADS® Barracuda™ Max

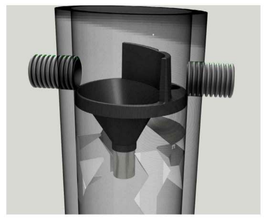
The Barracuda Max is market-changing stormwater quality technology. This high-performance vortex hydrodynamic separator is designed to remove total suspended solids in order to protect our precious receiving waters. The Barracuda Max is also an outstanding value that offers multiple pipe configurations, and quick installation. The "Max" version of the Barracuda is built on the base platform of the original ADS Barracuda with improved removal efficiencies and installation components.

Features

- Single manhole design
- No elevation loss between the inlet and outlet
- Variable inlet/outlet angle configurations (not just 180 degree orientation)
- Internal bypass for inline installation (where applicable)
- Revolutionary, patent-pending "teeth" mitigate turbulence in the sump area to prevent re-suspension of captured contaminants and an added deflector plate and bowl extension enhance the unit's removal capabilities

Benefits

- Internal components are in stock for quick delivery
- The S3, S4, S6, and S8 can be installed in a standard 36" (900 mm), 48" (1200 m), 72" (1800 m), and 96" (2400 m) precast manhole, respectively
- The S3 & S4 can be provided factory installed within a 36" (900 mm) and 48" (1200 mm) ADS HP manhole and delivered to the jobsite
- The Barracuda Max "teeth" and deflector plate apparatus are fabricated and designed for quick and easy field assembly
- Designed for easy maintenance using a vacuum truck or similar equipment.
- Inspection and maintenance are performed from the surface with no confined space entry



Barracuda Specification

Materials and Design

- Concrete Structures: Designed for H-20 traffic loading and applicable soil loads or as otherwise determined by a Licensed Professional Engineer. The materials and structural design of the devices shall be per ASTM C857 and ASTM C858.
- 36" (900 mm) and 48" (1200 mm) HP Manhole Structures: Made from an impact modified copolymer polypropylene meeting the material requirements of ASTM F2764. The eccentric cone reducer shall be manufactured from polyethylene material meeting ASTM D3350 cell class 213320C. Gaskets shall be made of material meeting the requirements of ASTM F477.
- Separator internals shall be substantially constructed of stainless steel, polyethylene or other thermoplastic material approved by the manufacturer.

Performance

- The stormwater treatment unit shall be an inline unit capable of conveying 100% of the design peak flow. If peak flow rates exceed maximum hydraulic rate, the unit shall be installed offline.
- The Barracuda Max unit shall be designed to remove at least 80% of the suspended solids on an annual aggregate removal basis. Said removal shall be based on full-scale third party testing using OK-110 media gradation or equivalent and 300 mg/L influent concentration. Said full scale testing shall have included sediment capture based on actual total mass collected by the stormwater treatment unit.

  - OR -

  The Barracuda Max unit shall be designed to remove at least 50% of TSS using a media mix with d_{50}=75 micron and 200 mg/L influent concentration.

  - OR -

  The Barracuda Max unit shall be designed to remove at least 50% of TSS per current NJDEP/NJCAT HDS protocol.
- The stormwater treatment unit internals shall consist of (1) separator cone assembly, and (1) sump assembly, which includes the "teeth".

Barracuda Max Model	Manhole Diameter	NJDEP (50% removal)	OK-110 (80% removal)
S3	36" (900 mm)	0.85 CFS (24.1 L/s)	0.86 CFS (24.1 L/s)
S4	48" (1200 mm)	1.52 CFS (43.0 L/s)	1.52 CFS (43.0 L/s)
S6	72" (1800 mm)	3.40 CFS (96.3 L/s)	3.42 CFS (96.8 L/s)
S8	96" (2400 mm)	6.08 CFS (172.2 L/s)	6.08 CFS (172.2 L/s)

* Peak bypass flows are dependent on final design

Installation

Installation of the stormwater treatment unit(s) shall be performed per manufacturer's installation instructions. Such instructions can be obtained by calling Advanced Drainage Systems at 800-821-6710 or by logging on to www.adspipe.com.

adspipe.com
800-821-6710

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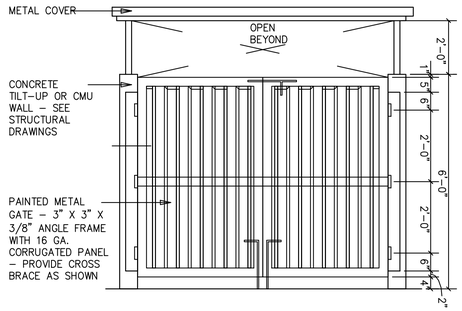
MODEL S6 HYDRODYNAMIC SEPARATOR INFORMATION
NTS



TYPICAL TRASH ENCLOSURE
NTS

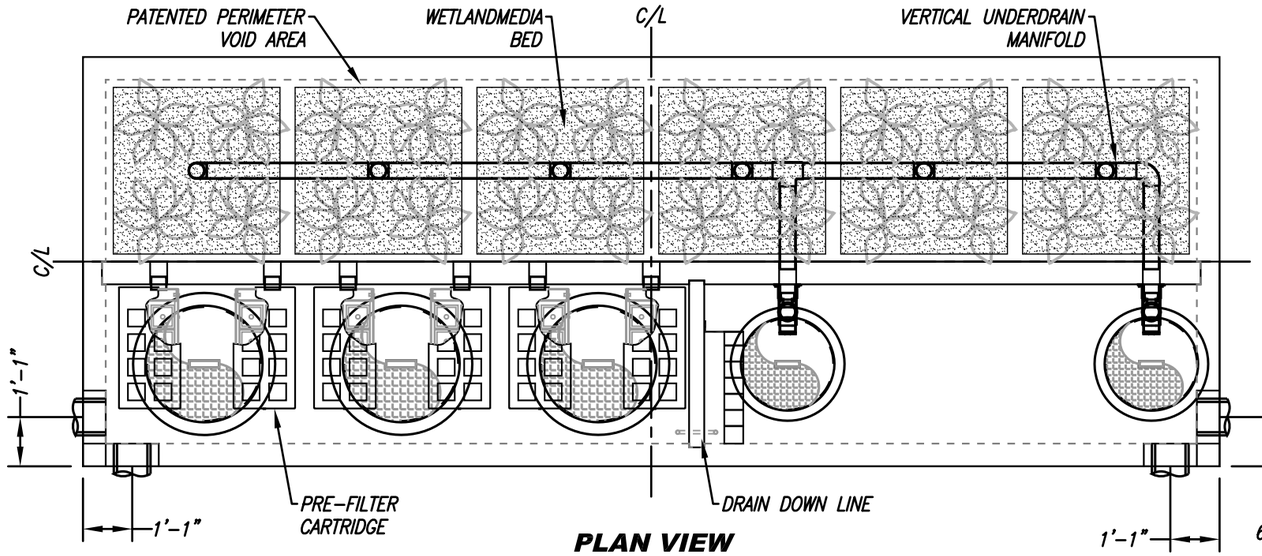
PREPARED BY:
PBLA ENGINEERING, INC.
Planning • Engineering • Surveying
1809 E. DYER ROAD, STE 301
SANTA ANA, CALIF. 92705
(888) 714-9642 • (714)389-9191 FAX

Aug 29 2023

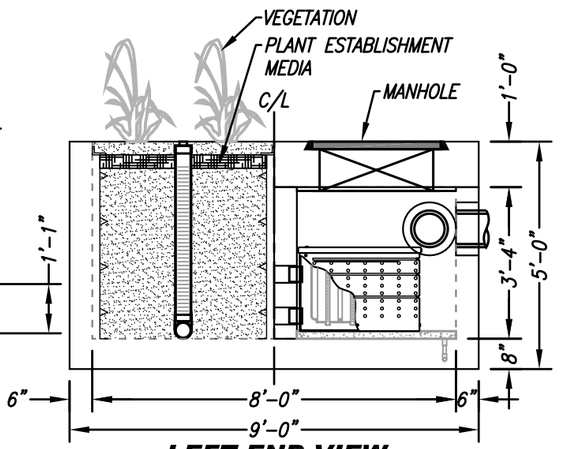
SITE PLAN
FINAL WATER QUALITY MANAGEMENT PLAN
GCC - CYPRESS
PLAZA DRIVE - CYPRESS, CA

MODULAR WETLANDS SYSTEM DETAILS

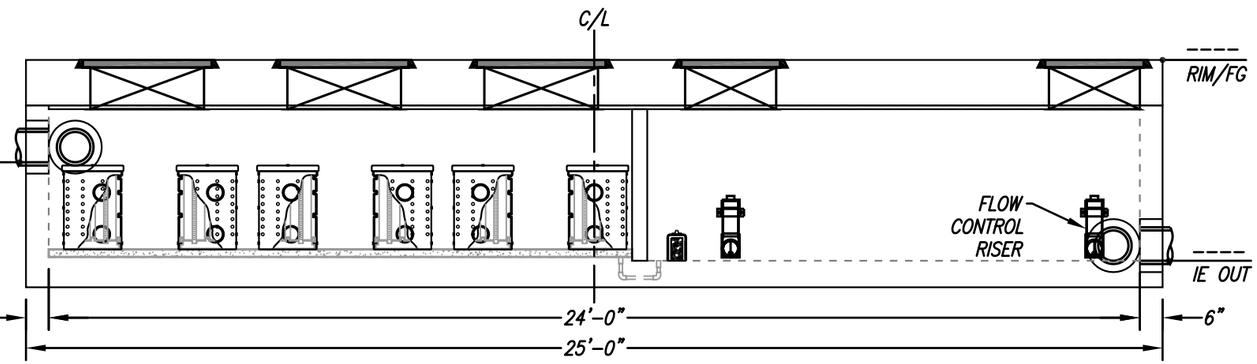
SITE SPECIFIC DATA			
PROJECT NUMBER		----	
PROJECT NAME		----	
PROJECT LOCATION		----	
STRUCTURE ID		----	
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
TREATMENT HGL AVAILABLE (FT)			
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	----	PVC	8"
INLET PIPE 2	N/A	N/A	N/A
OUTLET PIPE	----	PVC	8"
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	----	----	----
SURFACE LOAD	PARKWAY	OPEN PLANTER	PARKWAY
FRAME & COVER	3 EA ø30"	N/A	2 EA ø24"
WETLANDMEDIA VOLUME (CY)			TBD
WETLANDMEDIA DELIVERY METHOD			PER CONTRACT
ORIFICE SIZE (DIA. INCHES)			TBD
NOTES:			



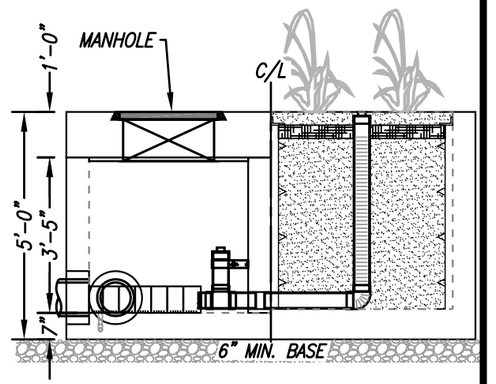
PLAN VIEW



LEFT END VIEW



ELEVATION VIEW



RIGHT END VIEW

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WETLAND MEDIA LOADING RATE (GPM/SF)	1.0

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MODULAR WETLANDS

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MWS-L-8-24-V

STORMWATER BIOFILTRATION SYSTEM STANDARD DETAIL

1/31/17/HAYDEN

STORM DRAIN PUMP SYSTEM DETAILS

HYDRODYNAMIC SEPARATOR DETAILS

ADS® Barracuda® Concrete

Installation Guide

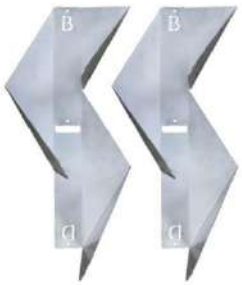
ADS Barracuda Max & Barracuda S4, S6, S8 Concrete Installation Guide

This installation guide is reference for installing the Barracuda Max S4, S6, S8 Water Quality Units into a precast concrete structure in the field.

(1) Deflector Plate

(1) Center Funnel Extender

(2) A/C Stainless Steel Tooth Set



(2) B/D Stainless Steel Tooth Set

(1) Barracuda Max Plastic Funnel

S4	(4) Stainless Steel Funnel Mounting Flanges	(1) Roll of Conseal®	(16) Concrete Anchor ¼ x 2¼”
S6	(4) Stainless Steel Funnel Mounting Flanges	(3) Roll of Conseal®	(16) Concrete Anchor ¼ x 2¼”
S8	(8) Stainless Steel Funnel Mounting Flanges	(4) Roll of Conseal®	(22) Concrete Anchor ¼ x 2¼”

Please check that all components are on site. Below is a list of tools that may be required for installation.

- □ 1/4” Diameter Carbide Tipped Concrete Bit
- □ Standard Electrical or Battery Operated Drill
- □ Adjustable Wrench
- □ Marker for writing on the concrete wall
- □ Hammer Drill for Concrete (Fits the 1/4” Diameter Concrete Drill Bit)
- □ 7/16” Driver or deep socket for installation of provided ¼” Concrete Wedge Anchors
- □ Hammer
- □ Level
- □ Ladder that will extend to bottom of the structure
- □ Safety Glasses
- □ Hard Hat
- □ Protective Gloves
- □ Site Drawings
- □ ADS Design Layout

adspipe.com
1-800-821-6710

Installation Instructions (These directions assume the manhole base and riser have been assembled, but that the top slab/cone has not been set).

*Do not insert the inlet or outlet pipes until after the Barracuda Max internals have been installed. If pipes must be inserted in advance, the pipes should not protrude into the structure as they will interfere with installation of the bowl.

1. Install mounting flanges for the Barracuda Max plastic funnel. These flanges need to be installed at the same height, as indicated by model in Table 1. For example, the anchor holes for S4 flanges should be drilled 77" (1925 mm) from the sump floor. S4 and S6 models have four flanges and they need to be evenly spaced at 12, 3, 6, and 9 o'clock positions. S8 funnels require eight flanges that also need to be evenly spaced (i.e., forty-five degrees on a circle) around the inside of the manhole. This flange points are typically located in the third manhole section from the sump and also contain the pipe openings for the Barracuda Max unit. Use the same anchor procedure as you will when mounting the teeth (see step #4 below), using the ¼" (6.25 mm) concrete drill bit to drill 1¼" (31.25 mm) deep holes. Do not over drill the depth of the anchors. Lightly hammer the anchors in place and use locking nuts to firmly secure the flanges (Figure 1).
2. Next, mount the four sets of teeth vertically inside the manhole sump. Using the engineer's plans or the ADS layout, determine the correct orientation for the plastic funnel outlet hole in relation to the outlet pipe (Figures 2 and 5). The first set of teeth (marked as "A" on the teeth part) will be mounted under the center of the outlet hole from the Bowl. Mark that location with a plumb vertical line, this will serve as the "12 o' clock" landmark in the manhole (Figure 3). Repeat this process to mark lines at the 3, 6, and 9 o' clock positions for a total of four.
3. Each kit includes four sets of teeth. Two of these sets are stamped with the letters A and C. The other two sets are stamped B and D. The ADS shop drawing layout will label the teeth letters and all designs will be the A/B configuration (Figure 5). You will install each set of teeth in the correct location, with the indicated letter facing up (Figure 4). See Table 1 for the correct elevation for the top anchor location of each tooth set, measured from the sump floor for each Barracuda Max Unit. The teeth anchors are all at the same elevation. For example, for an S4 Barracuda the top anchor of an A or B indicated set of teeth will be 60" (1500 mm) off the sump floor. Mark the top anchor elevations on each of your four vertical lines (Figure 3), noting that A and B sets of teeth will be at the same height.

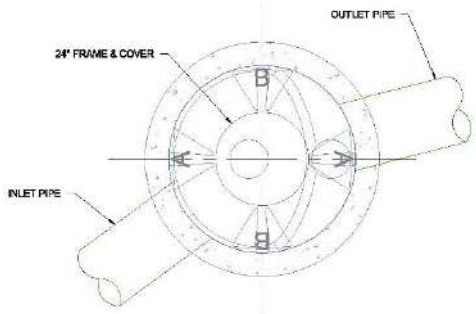
Figure 1

Figure 2

Figure 3

Figure 5

Figure 4



4. To fasten the sets of the teeth to the manhole, use the ¼" concrete drill bit and drill holes approximately 1¼" (31.25 mm) deep at your marked top anchor locations. Do not over drill into the concrete wall. Using a hammer, lightly tap the concrete anchors into the drilled holes (Figure 4). Hang the tooth set on the top anchor with the correct letter facing up and use a locking nut to loosely secure the tooth set to the wall (do not fully tighten the locking nut at this point). With the set of teeth hanging from the top anchor, line up and mark the bottom anchor location and drill the hole. Then hammer the bottom anchor in place and secure the teeth with a lock nut. Use an adjustable or socket wrench to tighten all the top and bottom locking nuts, except for the top nut on the outlet set of teeth (see step #5 below for the deflector plate installation, which will share the top anchor post), so that the teeth are firmly secured to the wall.

5. To attach the deflector plate to the concrete manhole you will use the exit tooth's top concrete anchor and share that linking point with the center tab of the deflector plate. Place the center tab of the deflector plate over the anchor bolt "post" on the outlet set of teeth and hand tighten the nut. Ideally, the plate will be held in place by this center point. Mark the location of the additional mounting tabs for the deflector plate while holding the plate relatively level. All deflector plate concrete anchors will be at the same elevation as the top tooth linking points and the anchors will be installed like the description in step #4. Once the two outer deflector plate linking points have been located, the installer can draw a vertical line and measure the exact location corresponding to the "high" teeth anchoring elevation. Once the deflector plate concrete anchors are installed tighten the nuts to complete the fastening of the deflector plate to the wall of the structure. See Figure 6 to show this more clearly.

6. Lower the plastic funnel into the structure (Figure 7), orienting the weir and outlet hole as depicted in the ADS layout (as identified in step 1). S6 and S8 units have eyebolts threaded holes on the top of the funnel to assist in lifting, and the eyebolts are provided in the equipment kit. If the eyebolts are misplaced, S6 units have ⅜" (9 mm) -16 threads and S8 units utilize ½" (12 mm) -13 threads. After the bowl is in place, install the center funnel extender through the hole and seat it until the tabs of the extender touch the bowl itself (Figure 8). This is a friction-based attachment and no fasteners are needed.

7. Next, you'll use Conseal to fill any gaps around the funnel. S6 and S8 units are provided with a metal funnel plug. This plug is placed in the funnel opening for worker safety and must be utilized ANYTIME SOMEONE ENTERS THE STRUCTURE. Unroll the Conseal and wedge it between the funnel and manhole to create a seal (Figure 9). Conseal should also be used to seal between the vertical edges of the weir wall and the manhole. The plastic funnel can expand with high temperature. Install the funnel during cooler parts of the day, or keep the funnel shaded until installation can mitigate fitment issues. Once the Conseal is installed, the internal component installation is complete. The funnel plug may be discarded (if applicable), and the top slab can be set. If the application calls for a grated inlet, orient the slab so the grate is above the inlet (large bowl) side of the plastic funnel.

For maintenance details, please refer to the Barracuda Max Maintenance Manual. If the application requires a trash rack or oil boom, reference the appropriate supplementary installation instructions.

Figure 6

Figure 7

Figure 8

Figure 9

Table 1

	S4	S6	S8
Top Anchor Elevation from Sump Floor (A and B tooth indication)	60” (1270 mm)	68” (1475 mm)	90” (1880 mm)
Funnel Flange Anchor Elevation from Sump Floor	77” (1960 mm)	77” (1960 mm)	127” (3220 mm)

Note: Distances can be +/- 1-2 inches (25-50 mm) from these locations for the A, and B teeth, but flange elevations should be adhered to as much as possible and can only be lowered a maximum of 1 inch (25 mm) from these values listed above.
This guide is intended for field installations of Barracuda Max S4, S6, and S8 water quality units into precast manholes. For pre-casters installing internal components prior to job site delivery, contact ADS for possible modifications to component elevations.

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Barracuda Max™ & Barracuda Maintenance Guide

One of Barracuda's advantages is the ease of maintenance. Like any system that collects pollutants, the Barracuda must be maintained for continued effectiveness. Maintenance is a simple procedure performed using a vacuum truck or similar equipment. The systems were designed to minimize the volume of water removed during routine maintenance, reducing disposal costs.

Contractors can access the pollutants stored in the manhole through the manhole cover. This allows them to gain vacuum hose access to the bottom of the manhole to remove sediment and trash. There is no confined space entry necessary for inspection or maintenance.

The entire maintenance procedure typically takes 2 to 4 hours, depending on the system's size, the captured material, and the vacuum truck's capacity.

Local regulations may apply to the maintenance procedure. Safe and legal disposal of pollutants is the responsibility of the maintenance contractor. Maintenance should be performed only by a qualified contractor.

Inspection and Cleaning Cycle

Periodic inspection is needed to determine the need for and frequency of maintenance. You should begin inspecting as soon as construction is complete and then on an annual basis. Typically, the system needs to be cleaned every 1-3 years.

Excessive oils, fuels or sediments may reduce the maintenance cycle. Periodic inspection is important.

Determining When to Clean

To determine the sediment depth, the maintenance contractor should lower a stadia rod into the manhole until it contacts the top of the captured sediment and mark that spot on the rod. Then push the probe through to the bottom of the sump and mark that spot to determine sediment depth.

Maintenance should occur when the sediment has reached the levels indicated in the Storage Capacity Chart.

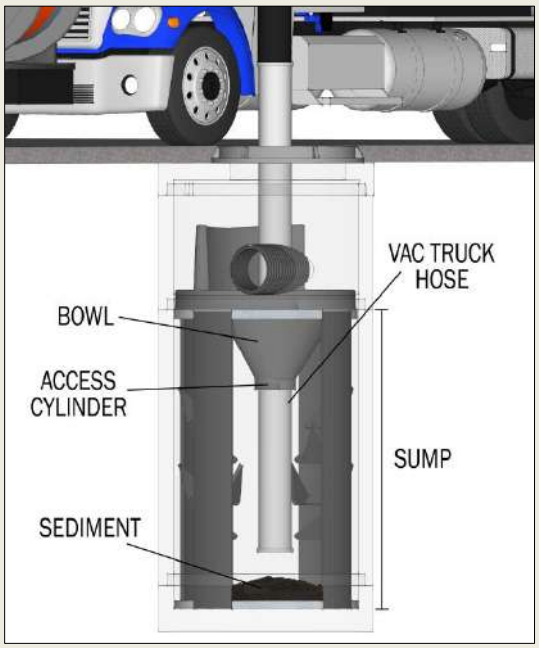
Barracuda Storage Capacities

Model	Manhole Diameter in. (mm)	Total System Volume Gallons (Liters)	Treatment Chamber Capacity Gallons (Liters)	Standard Sediment Capacity (20" depth) Yards^3 (meters^3)	NJDEP Sediment Capacity (50% of standard depth) Yards^3 (meters^3)
S3	36 (900)	264 (999)	212 (803)	0.44 (0.34)	0.22 (0.17)
S4	48 (1200)	665 (2517)	564 (2135)	0.78 (0.60)	0.39 (0.30)
S5	60 (1500)	1040 (3937)	881 (3335)	1.21 (0.93)	0.61 (0.47)
S6	72 (1800)	1497 (5667)	1269 (4804)	1.75 (1.34)	0.88 (0.67)
S8	96 (2400)	4196 (15884)	3835 (14517)	3.10 (2.37)	1.55 (1.19)
S10	120 (3000)	7976 (30192)	7496 (28375)	4.85 (3.71)	2.43 (1.86)

Maintenance Instructions

1. Remove the manhole cover to provide access to the pollutant storage. Pollutants are stored in the sump, below the bowl assembly visible from the surface. Access this area through the 8" (200 mm), 10" (250 mm), 15" (375 mm) or 20" (500 mm) diameter access cylinder.
2. Use a vacuum truck or other similar equipment to remove all water, debris, oils and sediment. See figure 1.
3. Use a high pressure hose to clean the manhole of all the remaining sediment and debris. Then, use the vacuum truck to remove the water.
4. Fill the cleaned manhole with water until the level reaches the invert of the outlet pipe.
5. Replace the manhole cover.
6. Dispose of the polluted water, oils, sediment and trash at an approved facility.
   a. Local regulations prohibit the discharge of solid material into the sanitary system. Check with the local sewer authority for authority to discharge the liquid.
   b. Some localities treat the pollutants as leachate. Check with local regulators about disposal requirements.
   c. Additional local regulations may apply to the maintenance procedure.

Figure 1



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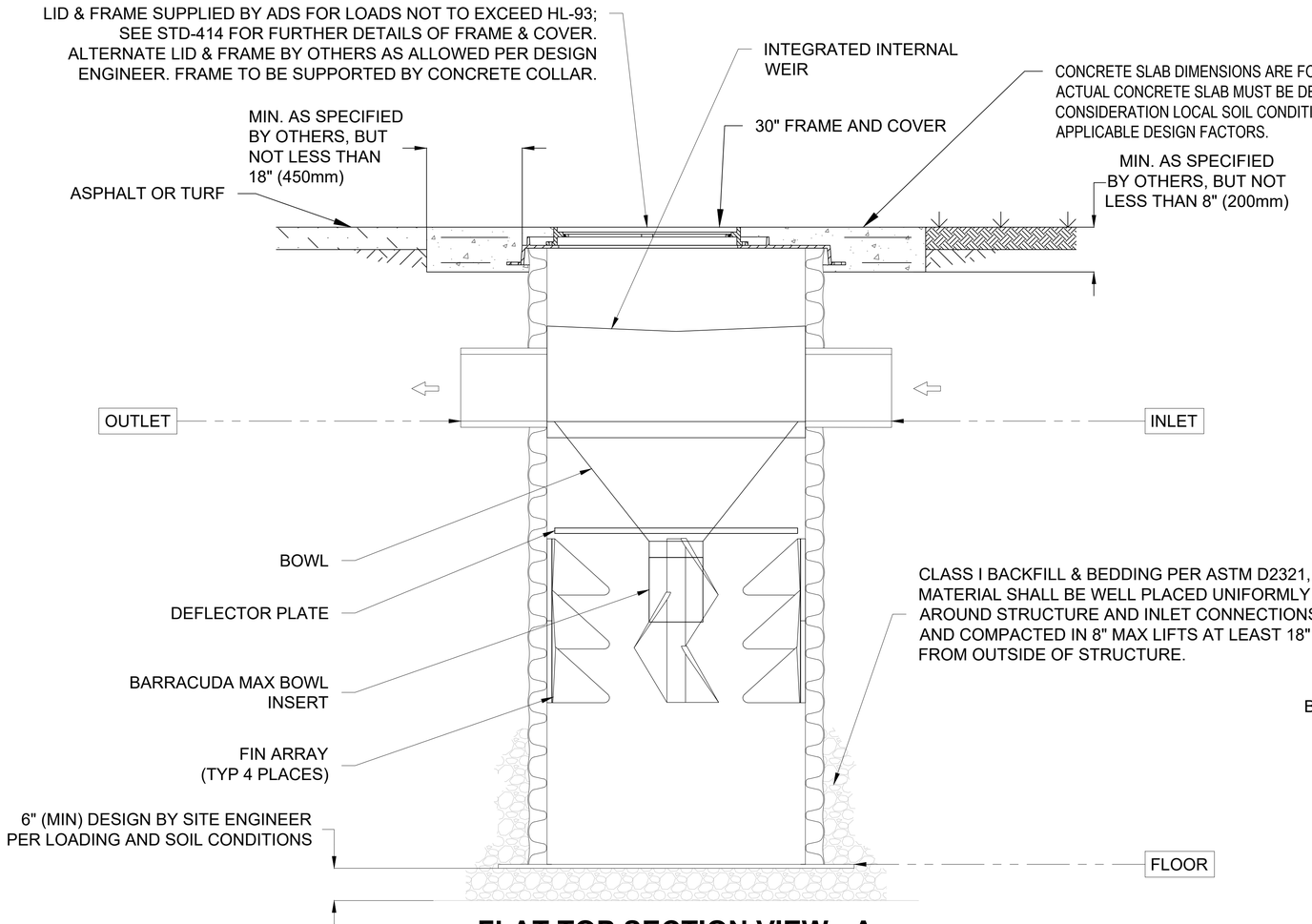
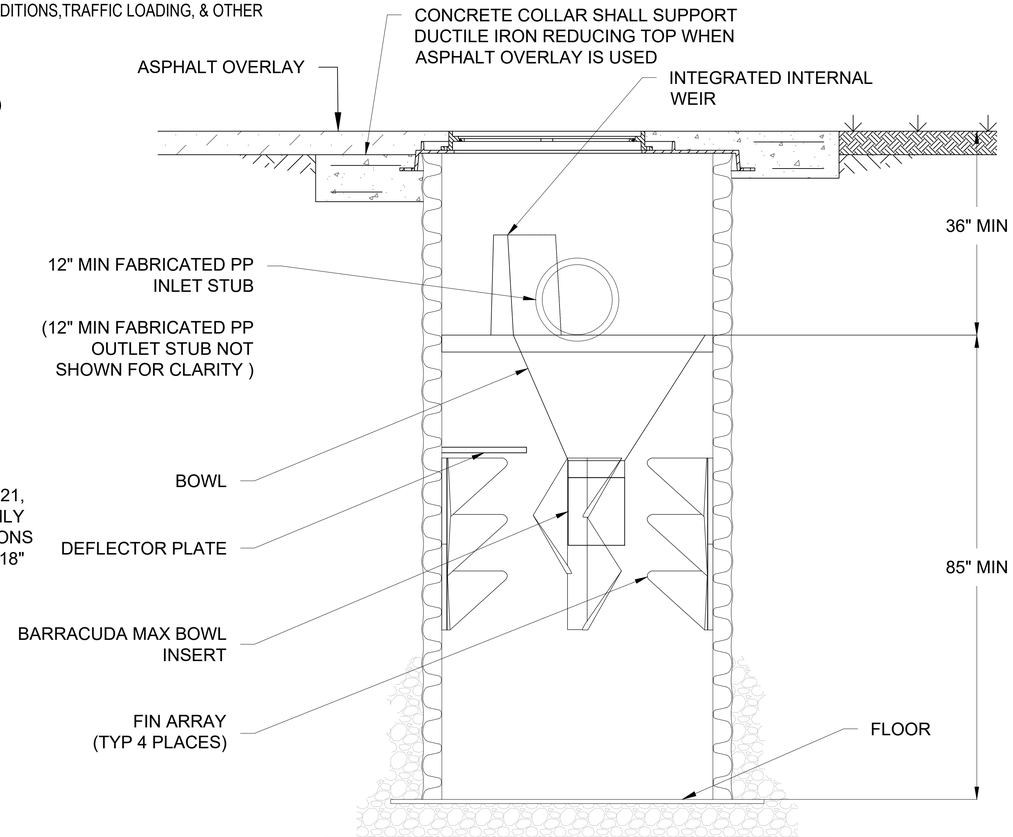


FLAT TOP SECTION VIEW - A

NTS



FLAT TOP SECTION VIEW - B

NTS

ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

STANDARD DETAIL
BARRACUDA MAX
FLAT TOP INSTALLATION

DRAWIMG NUMBER STD-520

4640 TRUEMAN BLVD
HILLIARD, OH 43026

DRAWN BY:	NMH
DATE:	9/13/22
OK'S BY:	
SCALE:	NTS
SHEET:	1 OF 1

INLET FILTER DETAILS

Ultra-Urban® Filter Chester DI

CATCH BASIN STORMWATER FILTRATION FOR DROP INLET (DI)

DESCRIPTION

The UUF Chester DI is a stainless-steel version of AbTech's UUF series. With a 20-year warranty, it serves as a long-term solution for stormwater catch-basin filtration. In addition to removing trash, debris, and sediment, by including a SmartPak® the unit will also remove fine sediment (TSS) and a wide range of other harmful and dissolved contaminates.

BENEFITS

- Made from 304 stainless-steel
- 20-year warranty
- Full Trash Capture Certified by California Water Board
- Upgradeable for emerging regulatory needs
- Simple installation, inspection and maintenance
- Will extend the maintenance interval for downstream BMPs like rain-gardens, bio-filtration, and detention facilities

PURIFICATION CAPABILITIES

By including Smart Sponge media (SmartPak®), the UUF Chester DI can also remove up to:

- 80% Total Petroleum Hydrocarbons (TPH)
- 80% Total Suspended Solids (TSS)
- 95% Total Phosphorus (Particulate and Dissolved)
- Total Metals (Particulate and Dissolved)
- Coliform bacteria redcution is possible with Smart Sponge Plus media*

APPLICATIONS AND MARKETS

- Catch-basins and storm drains
- Roadways, highways, and streets
- Parking lots, structures and garages
- Airports and ports
- Fueling and transportation depots
- Commercial and industrial facilities
- Residential areas
- Watersheds and recreational areas

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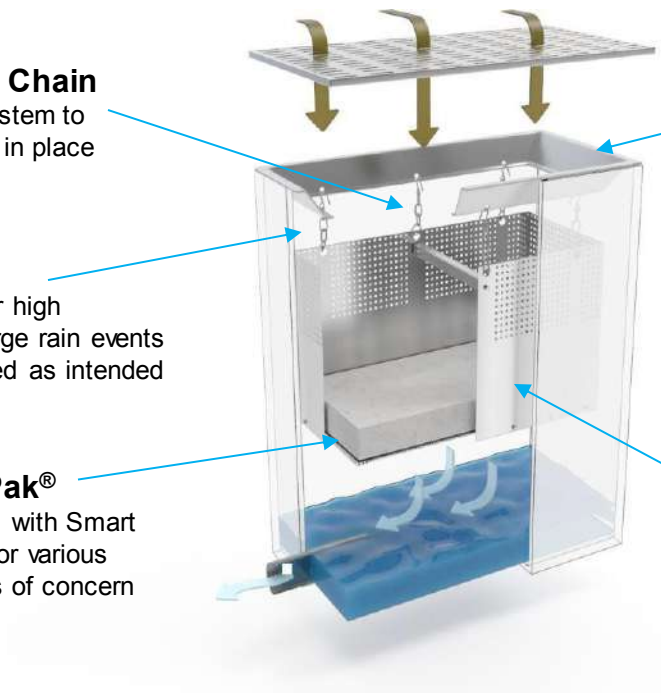
The Leader in Stormwater Purification

Ultra-Urban® Filter Chester DI

CATCH BASIN STORMWATER FILTRATION FOR DROP INLET (DI)

AbTech



Hook and Chain
Mounting system to secure UUF in place

Mounting Collar
A customizable stainless-steel collar for attaching the filter box

Bypass
Air gap used for high flow bypass; large rain events travel unimpeded as intended

SmartPak®
Designed with Smart Sponge for various pollutants of concern

Material
304 Stainless Steel filter box with 20-year warranty

STANDARD SIZING

Product Code	Size
DI1212N	12” x 12” x 19”
DI1212H	12” x 12” x 11”
DI1414N	14” x 14” x 19”
DI1414H	14” x 14” x 11”
DI1616N	16” x 16” x 19”
DI1616H	16” x 16” x 11”
DI2020N	20” x 20” x 19”
DI2020H	20” x 20” x 11”
DI2814N	28” x 14” x 19”
DI2814H	28” x 14” x 11”
DI3216N	32” x 16” x 19”
DI3216H	32” x 16” x 11”

Other sizes available upon request.

DISPOSAL AND SERVICE

- Easy installation, inspection and maintenance
- Can be cleaned from surface by hand or vacuum
- O&M manual available upon request
- Filter media disposal/recycling options
  - Waste-to-Energy Facilities
  - Cement Kilns
  - Landfills (passes EPA TCLP)

Water Boards

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Ultra-Urban® Filter TSS

CATCH-BASIN STORMWATER FILTRATION

DESCRIPTION

The Ultra-Urban Filter TSS (UUF TSS) uses a stainless-steel filter box and screening technology to attain 3rd party lab verification for total suspended solids removal (TSS). This simple and effective permanent BMP can be used to improve water quality with minimal upfront and long-term cost.

BENEFITS

- Made from 304 stainless-steel
- 20-year warranty
- Full Trash Capture Certified by California Water Board
- NJCAT 3rd party verification
- Simple instillation, inspection, and maintenance
- Extends the maintenance interval for downstream BMPs like rain-gardens, bio-filtration and detention facilities

PURIFICATION CAPABILITIES

NJCAT 3rd party lab test protocols show the UUF TSS model can remove 99.5% TSS from stormwater

APPLICATIONS AND MARKETS

- Catch-basins, storm drains
- Roadways, highways, streets
- Parking lots and garages
- Ports and Airports
- Fueling and transportation depots
- Commercial facilities
- Residential areas
- Urban runoff

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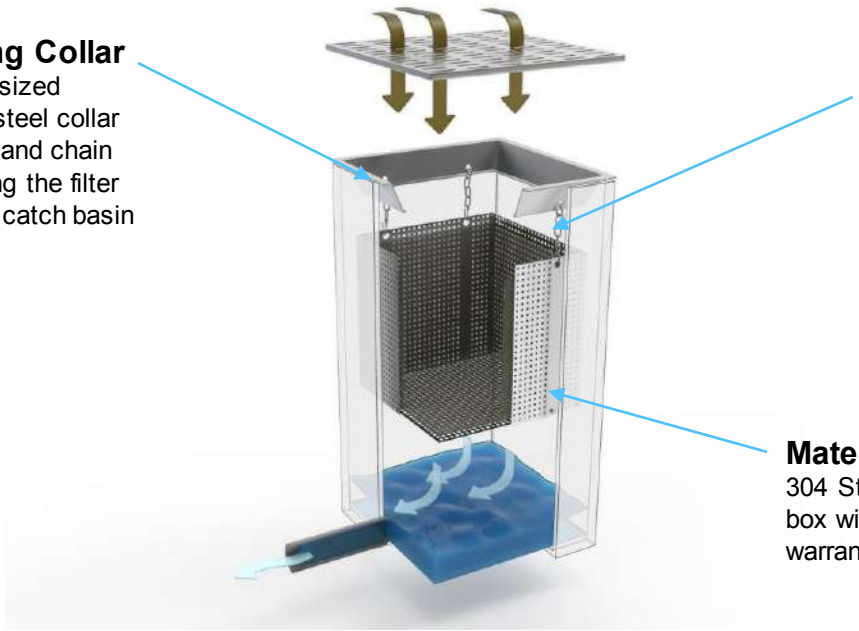
Ultra-Urban® Filter TSS

CATCH-BASIN STORMWATER FILTRATION

Mounting Collar
A custom sized stainless-steel collar with hook and chain for securing the filter box in the catch basin



Bypass
Air gap used for high flow bypass. Large rain events travel unimpeded as intended

Material
304 Stainless Steel filter box with 20-year warranty

STANDARD SIZING

Product Code	Size
DI1212N	12” x 12” x 19”
DI1212H	12” x 12” x 11”
DI1414N	14” x 14” x 19”
DI1414H	14” x 14” x 11”
DI1616N	16” x 16” x 19”
DI1616H	16” x 16” x 11”
DI2020N	20” x 20” x 19”
DI2020H	20” x 20” x 11”
DI2814N	28” x 14” x 19”
DI2814H	28” x 14” x 11”
DI3216N	32” x 16” x 19”
DI3216H	32” x 16” x 11”

Other sizes available upon request.

DISPOSAL AND SERVICE

- Easy installation, inspection, and maintenance
- Can be cleaned from surface by hand or vacuum
- O&M manual available upon request

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Ultra-Urban® Filter CO

CATCH-BASIN FILTRATION

DESCRIPTION

The Ultra-Urban® Filter Curb Opening (CO) is a recycled plastic version of AbTech's UUF series. It is designed for use in catch basins with no metal grate. It is a low-cost best management practice (BMP) that helps meet NPDES requirements. In addition to removing trash, debris, and sediment, AbTech's Smart Sponge® media can also help remove dissolved contaminants.

BENEFITS

- Helps meet NPDES permit and MS4 objectives
- "Source" control BMP
- Smart Sponge media is non-leaching and non-leaking
- Can be manufactured to any size or shape

PURIFICATION CAPABILITIES

- Full trash and debris capture greater than 5 mm.
- More than 80% Total Petroleum Hydrocarbons (TPH)
- More than 80% Total Suspended Solids (TSS)
- More than 50% Total Phosphorus (Particulate and Dissolved)
- More than 50% Total Metals (Particulate and Dissolved)
- Microbial Pathogens Reduction (Based on Coliform Bacteria data)

APPLICATIONS AND MARKETS

- Catch-basins and storm drains
- Protection of watersheds and recreational areas
- Roadways, highways, and streets
- Parking structures, lots, and garages
- Airports
- Fueling and transportation depots
- Urban and Agricultural runoff
- Commercial and industrial facilities
- Residential areas

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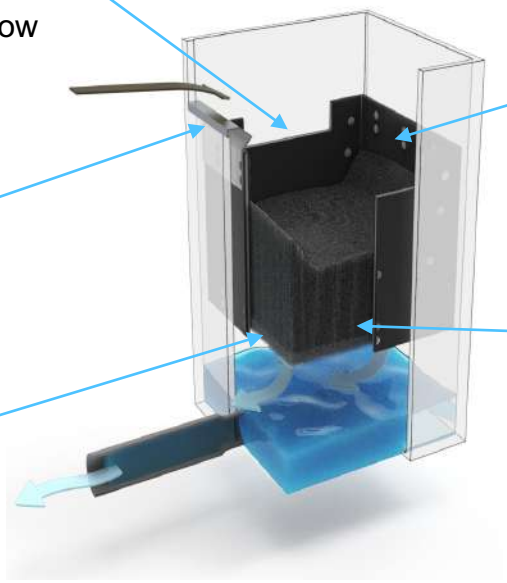
Ultra-Urban® Filter CO

CATCH-BASIN FILTRATION

Bypass overflow:
Opening for stormwater flow

Mounting bracket:
A stainless steel collar for mounting bracket

Smart Sponge® :
Advanced purification media



Recyclable plastic:
Made of post-consumer corrugated plastic

Containment Mesh:
The Smart Sponge Media is contained using a 5mm mesh

STANDARD SIZING

Product Code	Size
CO1414N	13.25” x 14.25” x 21”
CO1414H	13.25” x 14.25” x 13”

Other sizes available upon request.

DISPOSAL AND SERVICE

- Easy installation and maintenance
- Clean out by hand or by traditional vacuum truck processes
- Inspection and maintenance schedule should be followed – minimum 1x annually
- Media disposal/recycling options
    - Waste-to-Energy Facilities
    - Cement Kilns
    - Landfills (passes EPA TCLP)

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Ultra-Urban® Filter DI

CATCH-BASIN FILTRATION

DESCRIPTION

The Ultra-Urban Filter Drop In (DI) is a recycled plastic version of AbTech's UUF series. It is designed for use in catch basins with a metal grate. It is a low-cost best management practice (BMP) that helps meet NPDES requirements. In addition to removing trash, debris, and sediment, AbTech's Smart Sponge® media can also help remove dissolved contaminants.

BENEFITS

- Helps meet NPDES permit and MS4 objectives
- "Source" control BMP
- Smart Sponge media is non-leaching and non-leaking
- Can be manufactured to any size or shape

PURIFICATION CAPABILITIES

- Full trash and debris capture greater than 5 mm
- More than 80% Total Petroleum Hydrocarbons (TPH)
- More than 80% Total Suspended Solids (TSS)
- More than 50% Total Phosphorus (Particulate and Dissolved)
- More than 50% Total Metals (Particulate and Dissolved)
- Microbial Pathogens Reduction (Based on Coliform Bacteria data)

APPLICATIONS AND MARKETS

- Catch-basins and storm drains
- Protection of watersheds and recreational areas
- Roadways, highways, and streets
- Parking structures, lots, and garages
- Airports
- Fueling and transportation depots
- Urban and Agricultural runoff
- Commercial and industrial facilities
- Residential areas

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The Leader in Stormwater Purification

REV 6/20

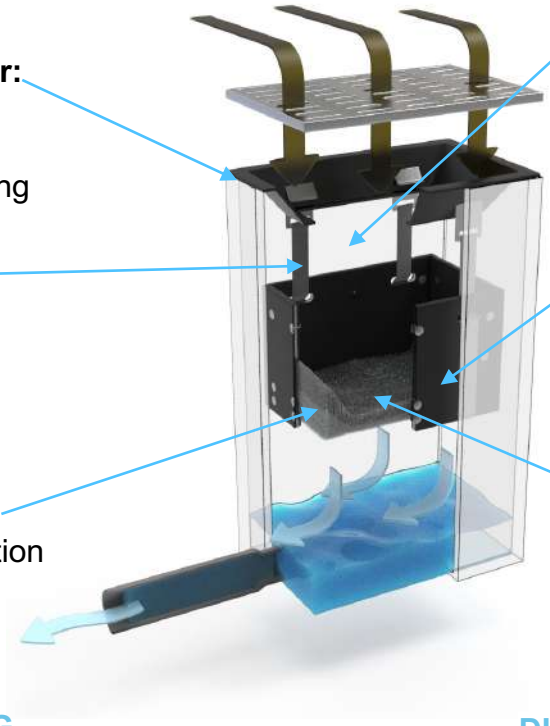
Ultra-Urban® Filter DI

CATCH-BASIN FILTRATION

Mounting Collar:
A customizable stainless-steel collar for mounting

Nylon Strap and Hook:
User-friendly nylon strap and hook mounting system

Smart Sponge® :
Advanced purification media



Bypass Overflow:
Opening for stormwater flow

Recyclable Plastic:
Made of post-consumer corrugated plastic

Containment Mesh:
The Smart Sponge Media is contained using a 5mm mesh

STANDARD SIZING

Product Code	Size
DI1309H	13.25” x 14.25” x 21”
DI1414H	13.25” x 14.25” x 13”
DI1420H	14” x 19.25” x 13”
DI1616H	16” x 16” x 13”
DI2020H	19.25” x 19.25” x 13”
DI1309N	13” x 8.5” x 13”
DI1414N	13.25” x 14.25” x 21”
DI1420N	14” x 19.25” x 21”
DI1616N	16” x 16” x 21”
DI2020N	19.25” x 19.25” x 21”

Other sizes available upon request.

DISPOSAL AND SERVICE

- Easy installation and maintenance
- Clean out by hand or by traditional vacuum truck processes
- Inspection and maintenance schedule should be followed – minimum 1x annually
- Media disposal/recycling options
    - Waste-to-Energy Facilities
    - Cement Kilns
    - Landfills (passes EPA TCLP)

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The Leader in Stormwater Purification

The Ultra-Urban® Filter with Smart Sponge® Filtration Media

REDUCTION OF HEAVY METALS, BACTERIA AND HYDROCARBONS IN STORMWATER RUNOFF

SMART SPONGE TECHNOLOGY IS BASED ON A PROPRIETARY BLEND OF SYNTHETIC POLYMERS AIMED AT THE REMOVAL OF HYDROCARBONS AND OIL DERIVATIVES FROM WATER.

SMART SPONGE®
Is chemically selective to hydrocarbons and capable of removing up to 1.5 times its own weight in hydrocarbons contamination. The Smart Sponge is capable of transforming hydrocarbons into a stable solid per the EPA's Toxicity Characteristic Leaching Procedure (TCLP).

SMART SPONGE® PLUS
Is registered with the EPA (Registration # 86256-1) for the reduction of total coliform bacteria. Smart Sponge Plus features an antimicrobial agent that is chemically and permanently bound to its polymer surface.

SMART SPONGE® HM
Reduces Cadmium, Copper, Chromium, Lead, Zinc, Iron, Arsenic, Selenium and Orthophosphate. Smart Sponge HM also inhibits growth of mildew and mold in a variety of applications.

The Ultra-Urban Filter with Smart Sponge, developed and manufactured by AbTech Industries, is an innovative low-cost BMP that helps meet NPDES requirements with effective filtration, efficient application, simple installation, and low maintenance.

APPLICATION

Smart Sponge fully encapsulates recovered oil, resulting in a substantially more effective response that prevents absorbed oil from leaching. It is also capable of successfully removing sheen. In addition, the Smart Sponge remains buoyant in calm or agitated water, permitting it to remain in place until fully saturated, resulting in no wasted product.

Once oil is absorbed, the Smart Sponge transforms the pollutants into a stable solid for easy recycling, providing a closed-loop solution. Smart Sponge technology is a cost-effective BMP with low installation and maintenance labor costs. In comparison to other products, the Smart Sponge technology allows for less expensive and less problematic handling and disposal of the waste product designed not to deteriorate in water, allowing for a longer product life.

HYDROCARBON REMOBAL

The Smart Sponge technology is deployed in products that offer customized solutions for stormwater pollution prevention, oil spill response, process water filtration and other industrial applications to meet specific environmental needs. AbTech Industries offers an extensive product line that is upgradeable to meet evolving community needs and regulatory requirements.

ANTIMICROBIAL REDUCTION

AbTech Industries has successfully deployed its patented antimicrobial technology, Smart Sponge Plus, which features an antimicrobial agent chemically and permanently bound to the Smart Sponge polymer surface. The antimicrobial mechanism is based on the patented agent's interaction with the microorganism cell membrane, causing the microorganism disruption – but no chemical or physical change in the agent. Antimicrobial activity does not reduce the agent's capability or cause its depletion and, therefore, maintains long-term effectiveness. Additionally, the hydrocarbon absorption capability is not inhibited. When properly installed and maintained, Smart Sponge Plus provides a significant reduction in coliform bacteria.

HEAVY METALS REMOVAL

AbTech Smart Sponge Heavy Metals (HM) media uses renewable resource based metal nanocomposites extruded into a macro-porous sponge. The media is in the form of hematite/magnetite and will bind to phosphorus resulting in removal rates as high as 98%. Smart Sponge HM media can be regenerated to its full adsorptive capacity and is ready for reuse immediately. When applied as tertiary treatment, Smart Sponge HM presents low capital cost, small footprint and significantly lower operating costs than conventional treatment systems.

Phosphorus is one of the major nutrients contributing in the increased eutrophication of lakes and natural waters. Its presence causes many water quality problems including increased purification costs, decreased recreational and conservation value of impoundments, loss of livestock and the possible lethal effect of algal toxins on drinking water.

Experts in Water

THE EXPERTISE TO CONSULT BUSINESSES ON COMPREHENSIVE WATER SOLUTIONS

ABTECH'S PROCESS CREATES A VERY POROUS STRUCTURE WITH HYDROPHOBIC AND OLEOPHILIC CHARACTERISTICS CAPABLE OF SELECTIVELY REMOVING HYDROCARBONS WHILE ALLOWING FOR HIGH FLOW THROUGH RATES.

SPECIFICATIONS

Part Number	Description	Dimensions	Gross Weight Approx. with Smart Sponge	Gross Weight Approx. Trash and Debris Only
Curb Opening Modules				
CO1414N	UUF, Normal Size	13.25"x14.25"x22.5"	20 Lbs.	5.5 lbs.
CO1414H	UUF, Half Size	13.25"x14.25"x13"	13 lbs.	4.5 lbs.
Drain Insert Modules				
DI1414N	UUF, Normal Size	13.25"x14.25"x21.125"	20 lbs.	5.6 lbs.
DI1414H	UUF, Half Size	13.25"x14.25"x13"	13 lbs.	4.5 lbs.
DI1420N	UUF, Normal Size	14"x19.25"x21.125"	24 lbs.	6.5 lbs
DI1420H	UUF, Half Size	14"x19.25"x13.375"	18 lbs.	5.0 lbs
DI1616N	UUF, Normal Size	16"x16"x21.125"	24 lbs.	6.5 lbs.
DI1616H	UUF, Half Size	16"x16"x13.375"	18 lbs.	5,0 lbs.
DI2020N	UUF, Normal Size	19.25"x19.25"x21.125"	30 lbs	7.5 lbs.
DI2020H	UUF, Half Size	19.25"x19.25"x13.375"	18 lbs.	6.0 lbs.

BEST MANAGEMENT PRACTICE (BMP)

The Ultra-Urban filter with Smart Sponge meets or exceeds Stormwater Best Management Practices (BMP). AbTech offers non-point source pollution prevention and potential for long-standing remediation. The Ultra-Urban filter does not require modification of existing structures and is effective in fresh or salt water temperatures ranging from 32°F to 130°F.

INSTALLATION

Installation time varies depending upon mounting devices selected. The Drain Inlet (DI) series Ultra-Urban Filter will suspend vertically from the drain into the catch basin through a structural mount and funnel mechanism. A single mounting bracket made of 16-gauge galvanized steel is required for the installation of the Curb Opening (CO) series. The Ultra-Urban Filter should not be installed where modules obstruct the drain pipe outlet. The size of the drain should allow room for stormwater overflow.

The Ultra-Urban Filter should be serviced as needed to remove sediment and debris, according to expected debris accumulation at a minimum once per year. The sediment and debris can be quickly vacuumed out of the modules through the opening of the drain with conventional maintenance equipment. For example, a curb inlet with four to five Ultra-Urban Filter modules can typically be serviced in 10 minutes or less.

ABOUT ABTECH

AbTech offers innovative solutions for Stormwater Management and Industrial Water Treatment. AbTech integrates its own advanced technologies along with third-party technologies and systems to provide customers with effective and economical solutions. AbTech products include advanced filtration media technologies and various water treatment systems.

MAINTENANCE

The Ultra-Urban filter should be serviced as needed to removed sediment and debris, according to expected debris accumulation. The sediment and debris can be quickly vacuumed out of the modules though the openings of the drain with conventional maintenance equipment. For example, a curb inlet with four to five Ultra-Urban filter modules can be typically serviced in 10 minutes or less.

Under normal operating conditions the Ultra-Urban filters should replaced every 1-3 years.

DISPOSAL

The Smart Sponge samples saturated with hydrocarbons both in the lab and in the field have been tested according to the EPA's Toxicity Characteristic Leaching Procedure ("TCLP"). These tests show that Smart Sponge is a "non-leaching" (i.e., non-detect or "N.D.") product. As a result, Smart Sponge technology can afford many cost effective and environmentally friendly disposal options.

Waste-to-Energy Facilities - A specialized segment of the solid waste industry has used spent Smart Sponge as an alternative fuel in the production of electricity.

Cement Kilns - This industry has used the spent Smart Sponge as an alternative fuel in the production process of Portland Cement. This process is considered a beneficial reuse of waste products. The BTU value of spent Smart Sponge is consistently above the average acceptable levels set for this high temperature.

Landfills - As discussed above, spent Smart Sponge products have been classified as a solid waste and have been accepted at Subtitle D Landfills.

WWW.ABTECHINDUSTRIES.COM

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AbTech INDUSTRIES

TRENCH DRAIN DETAILS

Section VII Educational Materials

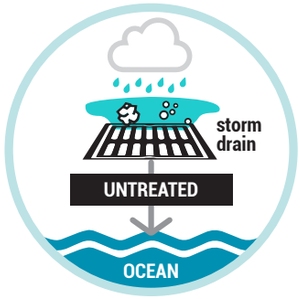
Refer to the Orange County Stormwater Program (ocwatersheds.com) for a library of materials available. For the copy submitted to the Permittee, only attach the educational materials specifically applicable to the project. Other materials specific to the project may be included as well and must be attached.

Education Materials			
Residential Material (http://www.ocwatersheds.com)	**Check If Applicable**	**Business Material (http://www.ocwatersheds.com)**	**Check If Applicable**
The Ocean Begins at Your Front Door	☒	Tips for the Automotive Industry	☐
Tips for Car Wash Fund-raisers	☐	Tips for Using Concrete and Mortar	☐
Tips for the Home Mechanic	☐	Tips for the Food Service Industry	☐
Homeowners Guide for Sustainable Water Use	☐	Proper Maintenance Practices for Your Business	☒
Household Tips	☐	**Other Material**	**Check If Attached**
Proper Disposal of Household Hazardous Waste	☐		
Recycle at Your Local Used Oil Collection Center (North County)	☐		☐
Recycle at Your Local Used Oil Collection Center (Central County)	☐		☐
Recycle at Your Local Used Oil Collection Center (South County)	☐		☐
Tips for Maintaining a Septic Tank System	☐		☐
Responsible Pest Control	☐		☐
Sewer Spill	☐		☐
Tips for the Home Improvement Projects	☐		☐
Tips for Horse Care	☐		☐
Tips for Landscaping and Gardening	☐		☐
Tips for Pet Care	☐		☐
Tips for Pool Maintenance	☐		☐
Tips for Residential Pool, Landscape and Hardscape Drains	☐		☐
Tips for Projects Using Paint	☐		☐

Attachments

Attachment A . ..... Educational Materials
Attachment B . ..... Geotechnical Infiltration Report
Attachment C . ..... Worksheet "B" - DCV Calculations
Attachment D . ..... Worksheet "I" – Groundwater Feasibility
Attachment E.. ..... Storage System Drawdown Calculations
Attachment F.. ..... Maintenance Covenant & Operations and Maintenance Plan
Attachment G . ..... Worksheet "J" – Harvest and Reuse Feasibility
Attachment H . ..... HCOC Exhibit & Calculations
Attachment I .. .. Exhibits
Attachment J .. .. BMP Fact Sheets

Attachment A . .....Educational Materials



Unlike water in sanitary sewers (from sinks and toilets), water in storm drains is **not treated or cleaned** before entering our waterways and should never contain any pollutants.

This brochure will help you protect our water quality by using BMPs appropriate to your facility.

← Learn more inside

Who is H_2OC?

H_2OC is YOU! H_2OC is also a cooperative stormwater program which includes all 34 cities in Orange County, the County of Orange, and Orange County Flood Control District (OCFCD). Clean and healthy beaches, creeks, rivers, bays, wetlands, and ocean are important to Orange County. H_2OC provides resources to residents and businesses to encourage personal action and prevent polluted runoff from entering our waterways.

Join Us

Visit **h2oc.org** to learn more about runoff, water pollution, and how you can be the solution to runoff pollution and protect our water resources!

Contact

24-hour Pollution Reporting Hotline:
1-877-89-SPILL (1-877-897-7455)

24-hour Reporting Website:
myOCeServices.ocgov.com

For emergencies, dial 911

* Some industrial facilities are also required to obtain coverage under the State's Industrial General Permit (IGP). To determine if your facility requires a permit, contact the State Water Resources Control Board at waterboards.ca.gov

** For more information about recycling and collection centers, visit oclandfills.com.

BEST MANAGEMENT PRACTICES FOR BUSINESSES

WATER POLLUTION AND COMMERCIAL & INDUSTRIAL FACILITIES

YOU ARE THE SOLUTION TO RUNOFF POLLUTION

H_2OC STORMWATER PROGRAM

How is Water Quality Affected By Your Business?

Commercial and industrial facilities can generate a variety of waste products which can become pollutants. These can include metals, plastics, toxic chemicals, oil, grease, and bacteria. If not properly managed, these pollutants can be transported to Orange County's creeks, rivers, and ocean through our storm drain system.

As a business owner or manager, you are responsible for overseeing the work of employees and outside contractors to prevent runoff pollution.

By law, commercial and industrial facilities are required to implement best management practices (BMPs) to prevent runoff pollution.*

Best Management Practices for Commercial & Industrial Sites

Implement these required best management practices (BMPs) to be in compliance and avoid enforcement actions:

Inspect

- Periodically inspect irrigation systems for leaks, overspray, and runoff. Repair and maintain as needed.
- Periodically check parking lots for discharges from leaking vehicles.
- Ensure lids on dumpsters are properly closed when not in use and sweep and pick up all debris daily.

Locate

- Locate and protect all area drains, yard drains, and catch basins where washwater could potentially enter the storm drain system.
- When working outdoors, conduct operations away from storm drains and waterbodies.
- Mix paint and clean tools in a contained area.

Contain

- Never allow washwater, sweepings, or sediment to enter storm drains.
- Store materials indoors or under cover and away from storm drains.
- Control, contain, and clean up all spills immediately with absorbents, rags, or mops. Never hose a spill.
- Follow the manufacturer's directions when applying fertilizers and pesticides. Never apply 48 hours before a forecasted rain event.

Collect

- Properly collect all washwater generated during business maintenance activities for disposal.
- Collect grass clippings, leaves, and other debris and dispose in covered containers.
- Use drop cloths underneath outdoor painting, scraping, and sandblasting work.
- Regulary sweep areas like corners and along curbs, where debris tends to accumulate, and dispose in covered containers.

Dispose

- Contact your waste hauler for proper waste, hazardous waste, and green waste disposal options.
- Contact your waste and recycling service to repair or replace leaking or damaged dumpsters.
- Recycle and dispose of materials as outlined by your local jurisdiction.**

What Pollutants Are Generated By Commercial & Industrial Sites?

Landscape Maintenance

When performing landscape maintenance, pollutants generated can include organic debris, trash, dirt, fertilizers, and pesticides.

Building Maintenance

When performing building maintenance, various types of pollutants can be generated including washwater, paint or paint chips, bacteria, and other toxic materials.

Parking Lots & Outdoor Areas

Pollutants in parking lots, patios, and outdoor areas can include trash, oil, grease, landscape debris, and bacteria.

Waste & Storage Area Management

Pollutants in waste and storage areas can include trash, oil, grease, bacteria, dirt, and other toxic materials.

Scan for more information about Commercial & Industrial site-specific BMPs or visit https://ocerws.ocpublicworks.com/service-areas/oc-environmental-resources/oc-watersheds/documents/best-management-practices-bmp-2

Preventing water pollution at your commercial/industrial site

Clean beaches and healthy creeks, rivers, bays and ocean are important to Orange County. However, many landscape and building maintenance activities can lead to water pollution if you're not careful. Paint, chemicals, plant clippings and other materials can be blown or washed into storm drains that flow to the ocean. Unlike water in sanitary sewers (from sinks and toilets), water in storm drains is not treated before entering our waterways.

You would never pour soap or fertilizers into the ocean, so why would you let them enter the storm drains? Follow these easy tips to help prevent water pollution.

Some types of industrial facilities are required to obtain coverage under the State General Industrial Permit. For more information visit: **www.swrcb.ca.gov/stormwater/industrial.html**

For more information, please call the **Orange County Stormwater Program** at **1-877-89-SPILL** (1-877-897-7455) or visit **www.ocwatersheds.com**

To report a spill, call the **Orange County 24-Hour Water Pollution Problem Reporting Hotline** at **1-877-89-SPILL** (1-877-897-7455).

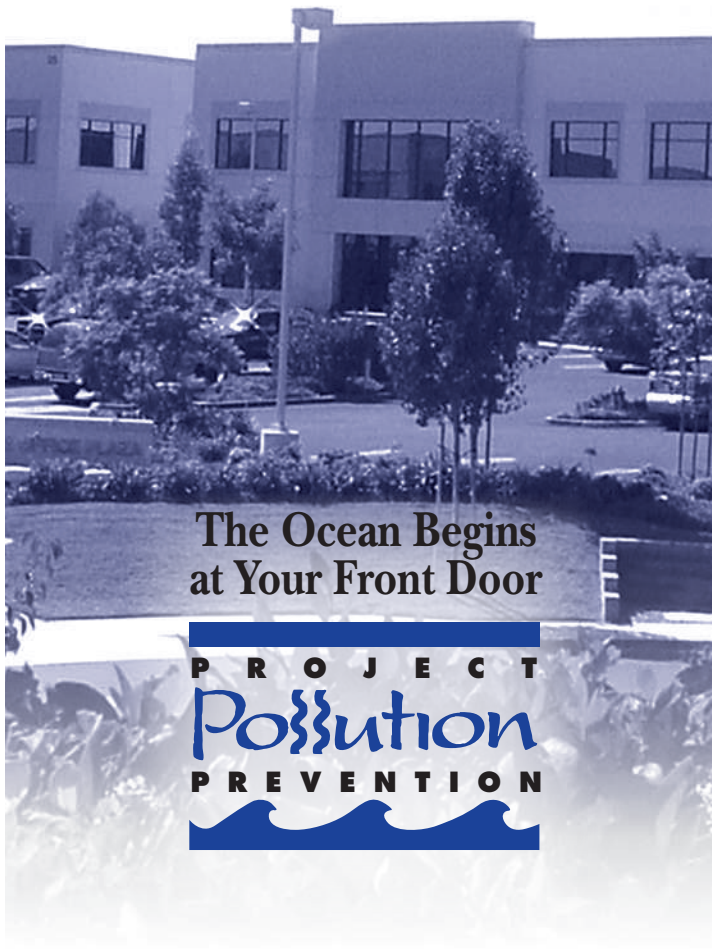
For emergencies, dial 911.

RECYCLE USED OIL

Printed on Recycled Paper

Help Prevent Ocean Pollution:

Proper Maintenance Practices for Your Business



The Ocean Begins at Your Front Door

PROJECT Pollution PREVENTION

Proper Maintenance Practices for your Business

Landscape Maintenance

- Compost grass clippings, leaves, sticks and other vegetation, or dispose of it at a permitted landfill or in green waste containers. Do not dispose of these materials in the street, gutter or storm drain.
- Irrigate slowly and inspect the system for leaks, overspraying and runoff. Adjust automatic timers to avoid overwatering.
- Follow label directions for the use and disposal of fertilizers and pesticides.
- Do not apply pesticides or fertilizers if rain is expected within 48 hours or if wind speeds are above 5 mph.
- Do not spray pesticides within 100 feet of waterways.
- Fertilizers should be worked into the soil rather than dumped onto the surface.
- If fertilizer is spilled on the pavement or sidewalk, sweep it up immediately and place it back in the container.

Building Maintenance

- Never allow washwater, sweepings or sediment to enter the storm drain.
- Sweep up dry spills and use cat litter, towels or similar materials to absorb wet spills. Dispose of it in the trash.
- If you wash your building, sidewalk or parking lot, you **must** contain the water. Use a shop vac to collect the water and contact your city or sanitation agency for proper disposal information. Do not let water enter the street, gutter or storm drain.
- Use drop cloths underneath outdoor painting, scraping, and sandblasting work, and properly dispose of materials in the trash.
- Use a ground cloth or oversized tub for mixing paint and cleaning tools.
- Use a damp mop or broom to clean floors.
- Cover dumpsters to keep insects, animals, rainwater and sand from entering. Keep the area around the dumpster clear of trash and debris. Do not overfill the dumpster.
- Call your trash hauler to replace leaking dumpsters.
- Do not dump any toxic substance or liquid waste on the pavement, the ground, or near a storm drain. Even materials that seem harmless such as latex paint or biodegradable cleaners can damage the environment.

NEVER DISPOSE OF ANYTHING IN THE STORM DRAIN.

- Recycle paints, solvents and other materials. For more information about recycling and collection centers, visit **www.oclandfills.com**.
- Store materials indoors or under cover and away from storm drains.
- Use a construction and demolition recycling company to recycle lumber, paper, cardboard, metals, masonry, carpet, plastic, pipes, drywall, rocks, dirt, and green waste. For a listing of construction and demolition recycling locations in your area, visit **www.ciwmb.ca.gov/recycle.**
- Properly label materials. Familiarize employees with Material Safety Data Sheets.

PROJECT Pollution PREVENTION

The Ocean Begins at Your Front Door

Follow these simple steps to help reduce water pollution:

Household Activities

- Do not rinse spills with water. Use dry cleanup methods such as applying cat litter or another absorbent material, sweep and dispose of in the trash. Take items such as used or excess batteries, oven cleaners, automotive fluids, painting products and cathode ray tubes, like TVs and computer monitors, to a Household Hazardous Waste Collection Center (HHWCC).
- For a HHWCC near you call (714) 834-6752 or visit www.oclandfills.com.
- Do not hose down your driveway, sidewalk or patio to the street, gutter or storm drain. Sweep up debris and dispose of it in the trash.

Automotive

- Take your vehicle to a commercial car wash whenever possible. If you wash your vehicle at home, choose soaps, cleaners, or detergents labeled non-toxic, phosphate- free or biodegradable. Vegetable and citrus-based products are typically safest for the environment.
- Do not allow washwater from vehicle washing to drain into the street, gutter or storm drain. Excess washwater should be disposed of in the sanitary sewer (through a sink or toilet) or onto an absorbent surface like your lawn.
- Monitor your vehicles for leaks and place a pan under leaks. Keep your vehicles well maintained to stop and prevent leaks.
- Never pour oil or antifreeze in the street, gutter or storm drain. Recycle these substances at a service station, a waste oil collection center or used oil recycling center. For the nearest Used Oil Collection Center call 1-800-CLEANUP or visit www.1800cleanup.org.

Pool Maintenance

- Pool and spa water must be dechlorinated and free of excess acid, alkali or color to be allowed in the street, gutter or storm drain.
- When it is not raining, drain dechlorinated pool and spa water directly into the sanitary sewer.
- Some cities may have ordinances that do not allow pool water to be disposed of in the storm drain. Check with your city.

Landscape and Gardening

- Do not over-water. Water your lawn and garden by hand to control the amount of water you use or set irrigation systems to reflect seasonal water needs. If water flows off your yard onto your driveway or sidewalk, your system is over-watering. Periodically inspect and fix leaks and misdirected sprinklers.
- Do not rake or blow leaves, clippings or pruning waste into the street, gutter or storm drain. Instead, dispose of waste by composting, hauling it to a permitted landfill, or as green waste through your city's recycling program.
- Follow directions on pesticides and fertilizer, (measure, do not estimate amounts) and do not use if rain is predicted within 48 hours.
- Take unwanted pesticides to a HHWCC to be recycled. For locations and hours of HHWCC, call (714) 834-6752 or visit www.oclandfills.com.

Trash

- Place trash and litter that cannot be recycled in securely covered trash cans.
- Whenever possible, buy recycled products.
- Remember: Reduce, Reuse, Recycle.

Pet Care

- Always pick up after your pet. Flush waste down the toilet or dispose of it in the trash. Pet waste, if left outdoors, can wash into the street, gutter or storm drain.
- If possible, bathe your pets indoors. If you must bathe your pet outside, wash it on your lawn or another absorbent/permeable surface to keep the washwater from entering the street, gutter or storm drain.
- Follow directions for use of pet care products and dispose of any unused products at a HHWCC.

Common Pollutants

Home Maintenance

- Detergents, cleaners and solvents
- Oil and latex paint
- Swimming pool chemicals
- Outdoor trash and litter

Lawn and Garden

- Pet and animal waste
- Pesticides
- Clippings, leaves and soil
- Fertilizer

Automobile

- Oil and grease
- Radiator fluids and antifreeze
- Cleaning chemicals
- Brake pad dust

The Ocean Begins at Your Front Door

Never allow pollutants to enter the street, gutter or storm drain!

Did You Know?

- Most people believe that the largest source of water pollution in urban areas comes from specific sources such as factories and sewage treatment plants. In fact, the largest source of water pollution comes from city streets, neighborhoods, construction sites and parking lots. This type of pollution is sometimes called “non-point source” pollution.
- There are two types of non-point source pollution: stormwater and urban runoff pollution.
- Stormwater runoff results from rainfall. When rainstorms cause large volumes of water to rinse the urban landscape, picking up pollutants along the way.
- Urban runoff can happen any time of the year when excessive water use from irrigation, vehicle washing and other sources carries trash, lawn clippings and other urban pollutants into storm drains.

Where Does It Go?

- Anything we use outside homes, vehicles and businesses – like motor oil, paint, pesticides, fertilizers and cleaners – can be blown or washed into storm drains.
- A little water from a garden hose or rain can also send materials into storm drains.
- Storm drains are separate from our sanitary sewer systems; unlike water in sanitary sewers (from sinks or toilets), water in storm drains is not treated before entering our waterways.

Sources of Non-Point Source Pollution

- Automotive leaks and spills.
- Improper disposal of used oil and other engine fluids.
- Metals found in vehicle exhaust, weathered paint, rust, metal plating and tires.
- Pesticides and fertilizers from lawns, gardens and farms.
- Improper disposal of cleaners, paint and paint removers.
- Soil erosion and dust debris from landscape and construction activities.
- Litter, lawn clippings, animal waste, and other organic matter.
- Oil stains on parking lots and paved surfaces.

The Effect on the Ocean

Non-point source pollution can have a serious impact on water quality in Orange County. Pollutants from the storm drain system can harm marine life as well as coastal and wetland habitats. They can also degrade recreation areas such as beaches, harbors and bays.

Stormwater quality management programs have been developed throughout Orange County to educate and encourage the public to protect water quality, monitor runoff in the storm drain system, investigate illegal dumping and maintain storm drains.

Support from Orange County residents and businesses is needed to improve water quality and reduce urban runoff pollution. Proper use and disposal of materials will help stop pollution before it reaches the storm drain and the ocean.

For More Information

Orange County Stormwater Program

California Environmental Protection Agency
www.calepa.ca.gov

- **Air Resources Board**
  www.arb.ca.gov
- **Department of Pesticide Regulation**
  www.cdpr.ca.gov
- **Department of Toxic Substances Control**
  www.dtsc.ca.gov
- **Integrated Waste Management Board**
  www.ciwmb.ca.gov
- **Office of Environmental Health Hazard Assessment**
  www.oehha.ca.gov
- **State Water Resources Control Board**
  www.waterboards.ca.gov

Earth 911 - Community-Specific Environmental Information 1-800-cleanup or visit www.1800cleanup.org

Health Care Agency's Ocean and Bay Water Closure and Posting Hotline
(714) 433-6400 or visit www.ocbeachinfo.com

Integrated Waste Management Dept. of Orange County (714) 834-6752 or visit www.oclandfills.com for information on household hazardous waste collection centers, recycling centers and solid waste collection

O.C. Agriculture Commissioner
(714) 447-7100 or visit www.ocagcomm.com

Stormwater Best Management Practice Handbook
Visit www.cabmphandbooks.com

UC Master Gardener Hotline
(714) 708-1646 or visit www.uccemg.com

The Orange County Stormwater Program has created and moderates an electronic mailing list to facilitate communications, take questions and exchange ideas among its users about issues and topics related to stormwater and urban runoff and the implementation of program elements. To join the list, please send an email to ocstormwaterinfo-join@list.ocwatersheds.com

Aliso Viejo	(949)	425-2535
Anaheim Public Works Operations	(714)	765-6860
Brea Engineering	(714)	990-7666
Buena Park Public Works	(714)	562-3655
Costa Mesa Public Services	(714)	754-5323
Cypress Public Works	(714)	229-6740
Dana Point Public Works	(949)	248-3584
Fountain Valley Public Works	(714)	593-4441
Fullerton Engineering Dept.	(714)	738-6853
Garden Grove Public Works	(714)	741-5956
Huntington Beach Public Works	(714)	536-5431
Irvine Public Works	(949)	724-6315
La Habra Public Services	(562)	905-9792
La Palma Public Works	(714)	690-3310
Laguna Beach Water Quality	(949)	497-0378
Laguna Hills Public Services	(949)	707-2650
Laguna Niguel Public Works	(949)	362-4337
Laguna Woods Public Works	(949)	639-0500
Lake Forest Public Works	(949)	461-3480
Los Alamitos Community Dev.	(562)	431-3538
Mission Viejo Public Works	(949)	470-3056
Newport Beach, Code & Water Quality Enforcement	(949)	644-3215
Orange Public Works	(714)	532-6480
Placentia Public Works	(714)	993-8245
Rancho Santa Margarita	(949)	635-1800
San Clemente Environmental Programs	(949)	361-6143
San Juan Capistrano Engineering	(949)	234-4413
Santa Ana Public Works	(714)	647-3380
Seal Beach Engineering	(562)	431-2527 x317
Stanton Public Works	(714)	379-9222 x204
Tustin Public Works/Engineering	(714)	573-3150
Villa Park Engineering	(714)	998-1500
Westminster Public Works/Engineering	(714)	898-3311 x446
Yorba Linda Engineering	(714)	961-7138
Orange County Stormwater Program	(877)	897-7455

Orange County 24-Hour
Water Pollution Problem Reporting Hotline
1-877-89-SPILL (1-877-897-7455)

On-line Water Pollution Problem Reporting Form
www.ocwatersheds.com

Printed on Recycled Paper

Attachment B . ..... Geotechnical Infiltration Report

G3SoilWorks

GEOLOGY · GEOTECH · GROUNDWATER

Goodman
18201 Von Karman Avenue, Suite 1170
Irvine, California 92612

May 4, 2022
Project No. 1-1209

Attention: Mr. Blair Dahl

Subject: Geotechnical Investigation and Report Update
Proposed Goodman Commerce Center
5665 and 5757 Plaza Drive
Cypress, California

References: See attached List of Selected References

Dear Mr. Dahl,

Pursuant to your request and authorization, G3SoilWorks, Inc. (G3), has prepared this geotechnical investigation report update for the proposed commercial / industrial development to be located at 5665 and 5757 Plaza Drive, in the city of Cypress, California. This report update was prepared based on our review of available documents and plans provided by your office, preliminary assessment and independent analysis of the data presented in the referenced reports by others, desktop site research and onsite reconnaissance, supplemental field subsurface exploration, laboratory testing, and engineering geologic evaluation / geotechnical engineering analysis of our field findings. A summary of our evaluation / findings and geotechnical recommendations for site development are included and presented herein.

SITE LOCATION / DESCRIPTION

The project site is located at the subject address (5665 and 5757 Plaza Drive) in the City of Cypress, California. As shown on Figure 1 (attached), Plaza Drive partially bounds the site to the south / southeast and is accessed via intersections with Katella Avenue and Valley View Street, south and east of the site, respectively. Currently, the site is understood to be occupied by the Cypress Technology Center which includes an existing approximately 5-story office building associated with the 5665 property address, a large commercial / industrial building and office complex associated with the 5757 property address, and associated parking areas concentrated near the northwest corner of the site and around the perimeters of the existing buildings.

The 5665 property is approximately 450 feet by 800 feet in area and occupies the westerly 8.3± acres of the site with the existing office complex occupying an “L”-shaped footprint of approximately 0.82 acres. The 5757 property is larger (approximately 750 feet by 950 feet) and comprises the easterly 16.4± acres of the site with the existing commercial / industrial building

complex occupying a rectangular area of about 7.2 acres. The topography of the site is relatively flat to very gently sloping. Site elevations in feet above the North American Vertical Datum of 1988 (NAVD88) are estimated to range from approximately Elevation (El.) 38± feet near the northeast and southeast corners of the site, El. 39± feet near the center of the site, and El. 35-36± feet near the northwest and southwest corners of the site, respectively.

PROJECT UNDERSTANDING

Three (3) commercial / industrial buildings are currently proposed across this project site, with each building including 1st and 2nd floor office areas and a warehouse with attendant loading docks and associated paved parking and driveway areas. A Concept Grading Plan (Reference No. 1) for the easterly 5757 property shows Building 1 (199,909 square feet) and Building 2 (180,359 square feet) occupying the easterly and westerly portions of the property. Conceptual plans for the 5665 property were not available at the time of this report, but we understand that Building 3 (185,412 square feet) will be of a similar type of construction (i.e., concrete tilt-up frame construction) with similar appurtenances relative to Buildings 1 / 2.

Structural details were not available at the time of this report update. For the purposes of this report, it is assumed that the planned structures will consist of concrete tilt-up frame construction with associated truck docks. Maximum column and wall loadings not exceeding about 200 kips and 5 kips per lineal foot, respectively, have been assumed for preliminary design purposes. Should the planned design / construction loadings vary from those indicated herein, this office should be notified in order to provide comment and/or updated geotechnical recommendations for design, as appropriate.

PROJECT BACKGROUND AND PREVIOUS STUDIES

Previous studies for the project were performed by Southern California Geotechnical (SCG), the findings of which were presented in SCG's Geotechnical Feasibility Study dated June 7, 2021 (Reference No. 2) and subsequent Geotechnical Investigation Report dated September 29, 2021 (Reference No. 3). Field subsurface investigation for both properties was performed by SCG as part of their Geotechnical Feasibility Study and included the drilling of four (4) soil borings (B-1 through B-4) and four (4) Cone Penetration Tests (CPT-1 through CPT-4) to depths of 50 feet below existing ground surface. SCG's subsequent study / Geotechnical Investigation Report included nine (9) additional borings (B-5 through B-14) and four (4) additional CPTs (CPT-4 through CPT-8) with recommendations provided for buildings located on the 5757 property (now referred to as Buildings 1 and 2, respectively, per Concept Grading Plan; Reference No. 1). Actual logs of borings B-5 through B-7 and CPT-5/-6, including associated laboratory test results, were not available for our review. The CPT data files were also not available for our review and re-evaluation.

SCG identified shallow groundwater levels at 5 to 9.5 feet below existing ground surface and potentially liquefiable soil conditions at depths between 5 and 50 feet below existing ground surface. Recommendations for remedial grading combined with or without specialized ground improvement techniques to depths of 15 feet were provided with the intent of supporting the

planned structures on shallow conventional foundations. Conventional foundation criteria were provided when considering remedial grading to 15 feet depth, with reported post-construction settlements expected to be within tolerable limits for conventional foundations. However, based on our review of the previous studies by SCG, estimated total and differential settlement potentials were not provided for design, and settlements due to potential soil liquefaction below the proposed 15-feet-depth of remedial grading did not appear to have been addressed. Additionally, the proposed remedial grading would intercept shallow groundwater, requiring extensive dewatering.

In view of the above, G3 was retained to review and evaluate the findings / recommendations of the previous geotechnical consultant (SCG), perform supplemental subsurface exploration, and develop alternative recommendations for the proposed development. G3 has completed this additional phase of study and summarized our findings / recommendations herein as the new / current Geotechnical Consultant of Record (see below).

CHANGE OF GEOTECHNICAL CONSULTANT OF RECORD

G3SoilWorks, Inc. (G3), has been retained and should be considered as the current Geologic / Geotechnical Consultant of Record for the subject project. As the Consultant of Record, G3 has reviewed the referenced reports prepared by Southern California Geotechnical (SCG; Reference Nos. 2-3), accepts the data, and generally concurs with their conclusions and recommendations, with the exception of those superseded herein.

PURPOSE AND SCOPE

The purpose of our geotechnical investigation was to re-assess and evaluate the findings / evaluation / recommendations for the deep removal / recompaction remedial grading scheme presented by the previous geotechnical consultant and provide alternative in-situ ground improvement considerations for structure support.

Our scope of work included the following tasks:

- Review of available pertinent geologic and geotechnical reports and maps specific to the project site and vicinity
- Preliminary site reconnaissance and boring layout;
- The drilling of 5 borings to depths of 25 to 51.5 feet below existing grade utilizing a truck-mounted drilling rig equipped with an eight-inch diameter hollow-stem auger, and associated soil sampling and logging by our geologist / engineer to substantiate the subsurface findings reported by the previous consultant and obtain additional subsurface information.
- A total of five (5) monitoring wells were installed to determine static water levels and provide a means of groundwater monitoring in advance of and during construction.
- Review of the liquefaction analyses performed by the previous consultant and perform two (2) additional Cone Penetrometer Tests to depths of 50 feet below grade for liquefaction evaluation;

- Laboratory testing, including moisture content and dry density of relatively undisturbed samples obtained in the field, maximum density / optimum moisture relationship, expansion index, hydrometer, classification, consolidation, direct shear, and Atterberg limits;
- Engineering geologic / geotechnical evaluation and analysis of the findings by our office and those presented in the referenced reports relative to the existing site conditions / proposed development, including geologic hazards and re-evaluation of potential site liquefaction;
- Consultation with our ground improvement design / build specialist to develop criteria for use in ground stabilization and preliminary recommendations for remedial grading / ground improvement, and foundation design criteria;
- Preparation of this written report presenting a summary of our field findings, laboratory test results, and updated recommendations for grading, preliminary criteria for ground improvement, foundation design and construction, and utility trench excavation considerations.

GEOLOGY

Regional Geologic Setting

The Los Angeles and Orange County coastal areas are adjacent to what is referred to as California's "Continental Borderland" geomorphic province – representing an area of transition between continental and marine environments associated with the geologic development of the Los Angeles Basin (LA Basin, Figure A). Over the past 20 million years of geologic time, tectonic reorganization of the southern California landscape along the "Big Bend" of the San Andreas Fault Zone (SAFZ) caused areas associated with the LA Basin to subside / down-drop, forming a major structural depression / sedimentary basin during early to middle Miocene time (15-20 million years ago). This depression initially formed an offshore marine environment that persisted for millions of years and filled with marine sediments sourced from the rapidly evolving highlands. Within the last 2-3 million years, tectonic uplifts that developed along the Newport-Inglewood / Rose Canyon Fault Zone (NIRCFZ) to the west and Whittier Fault Zone (WFZ) to the north caused the basin to uplift and fill with terrestrial and marine sediments, eventually becoming an evolving emergent plain. The source of the infill sediments was a combination of both marine and terrestrial sediments deposited by the ancestral Santa Ana, Los Angeles, and San Gabriel River systems. Over the last approximate 120-thousand years of geologic time, alluvial sedimentary fans have built-out / prograded southwestward toward the Pacific Ocean from the mouth of Santa Ana Canyon, forming the upland areas of the Orange County coastal plain. The Orange County coastal plain, City of Cypress, and project site are located within the southeasterly margins of the LA Basin, west of the historic Santa Ana River Channel, and are underlain by thousands of feet of Tertiary sediments and crystalline basement rocks of the Peninsular Ranges Geomorphic Province of southern California.

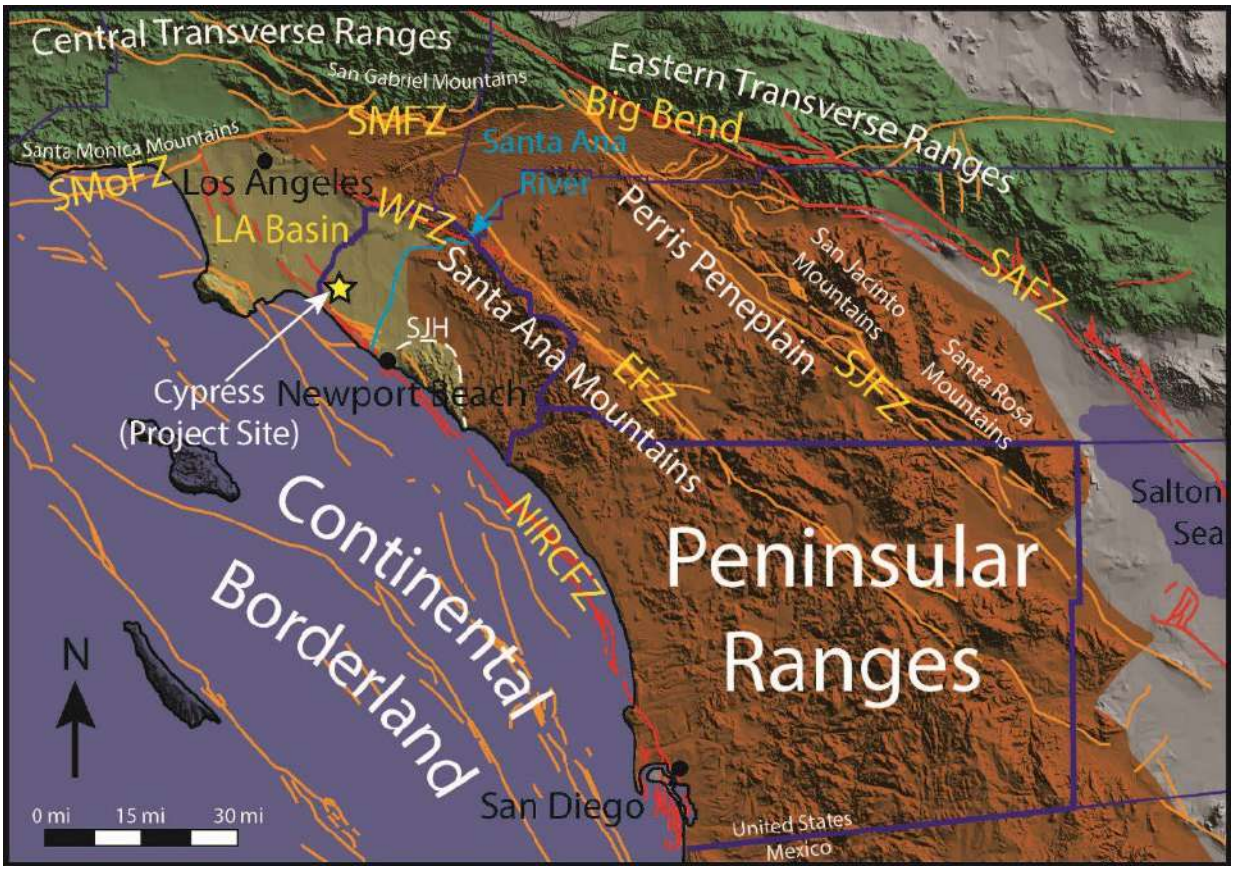


Figure A. Map of Local Geomorphic Provinces, Regional Fault Lines, and Related Landforms including: the Peninsular Ranges (orange), Continental Borderland (blue), and Transverse Ranges (green); the San Andreas, Newport-Inglewood / Rose Canyon, and Whittier fault zones (SAFZ, NIRCFZ, and WFZ, respectively; red lines); the San Jacinto (SJFZ), Elsinore (EFZ), Santa Monica (SMoFZ), and Sierra Madre (SMFZ) fault zones (orange lines). The project site (yellow star) is located along within the southeasterly interior margins of the Los Angeles Basin (LA Basin; yellow), a geomorphic sub-province forming the "join" between the three surrounding provinces. The San Joaquin Hills (dashed, white outline) represent the uplifted southeastern extension of the LA Basin to the southeast. County lines shown in dark blue with the project site located in Orange County. Approximate alignment of Santa Ana River is shown in light blue.

Local Geology / Geomorphology

Review of historic topographic maps dating back to the early 1900's (Figure B, below) indicates that the site is located near the terminus of the abandoned northern branch of the ancestral Santa Ana River and the headwaters of Anaheim Creek, which historically drained into the wetlands of Seal Beach (now known as the Seal Beach National Wildlife Refuge). Regional geologic mapping (Figure 3, attached) indicates that the site is underlain by Quaternary young alluvial deposits – Unit 2 (Qya_2) of late Pleistocene to Holocene age. The local alluvial deposits are described as, "*Poorly consolidated, poorly sorted, permeable flood-plain deposits consisting of soft clay, silt and loose to moderately dense sand and silty sand*". Sediments underlying the site / vicinity are understood to be fluvial in origin, having been transported by floodwaters of the

ancestral San Gabriel and Santa Ana River drainages, deposited as broad sheets and anastomosing lobes of sediment across an ancient flood plain. These relatively ancient flood-plain deposits, now at elevations of 35-40 feet above sea level, likely began accumulating in a low-lying wetland, similar to the historic wetlands of Seal Beach to the southwest. During the late Pleistocene / early Holocene climatic transition (10- to 20-thousand years ago), local relative sea level was more than 300 feet below its modern level, but rapidly rose in response to climate change and influx of glacial meltwater into Earth's oceans. This rapid sea level rise essentially drowned the coastal zone and flooded former wetland areas that would subsequently infill and be buried by terrestrial alluvium transported and deposited by the Santa Ana and San Gabriel Rivers. As these sediments continued to accumulate, they developed into broad alluvial fans that prograded / built-out from ancient stream channels, displacing and/or maintaining the Pacific Coastline to the southwest. The result of this apparently rapid depositional history is an elevated, alluvial flood-plain that buried / infilled an ancient wetland, creating the relatively flat / low-lying terrain and alluvial deposits present under the site.

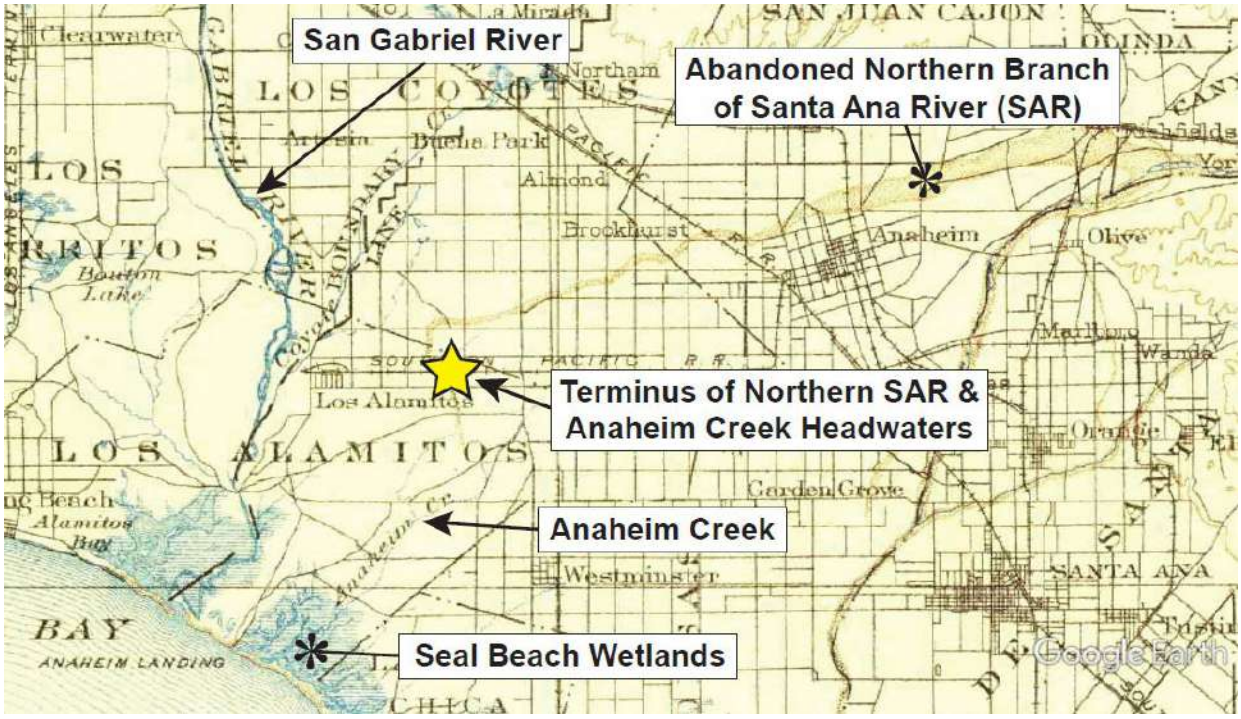


Figure B. Historic Topographic Map of Southern California from U.S. Geological Survey – Southern California Sheet No. 1, 1:250,000 Scale, 250-feet Contour Interval, May 15, 1910 Edition. Note that the site (yellow star) is located near the terminus of the ancestral Santa Ana River's abandoned north branch, and the headwaters of historic Anaheim Creek, which ultimately drains into wetlands of Seal Beach (Note: Not to Scale; For Illustrative Purposes Only).

Site History

According to PropertyShark and LoopNet commercial real estate website, the existing structures that currently occupy the 5665 and 5757 properties were reportedly constructed in 1988 and 1991,

respectively. Review of vintage topographic maps and historic aerial photos dating back to the early 1900s indicates that the site originated as part of a largely undeveloped, rectangular parcel, with the majority of the local area either similarly undeveloped or agricultural. By the early 1930s, some housing and limited urbanization, including a petroleum tank farm to the northwest, is scattered throughout the greater vicinity. As of 1950 (Figure C, below), the site was part of a group of agricultural parcels proximal to the Southern Pacific Rail Line, the Los Alamitos Race Track and Army Airfield Complex, and other developments can be seen in the area. By 1960, the airfield had expanded to near its modern configuration and much of the surrounding vicinity had become urbanized. The site area remained agricultural through 1970, but much of the surrounding area was urbanized and developed by 1980. The site and immediate vicinity however remained agricultural until about 1985. In 1990, the site's configuration was apparently established similar to today.

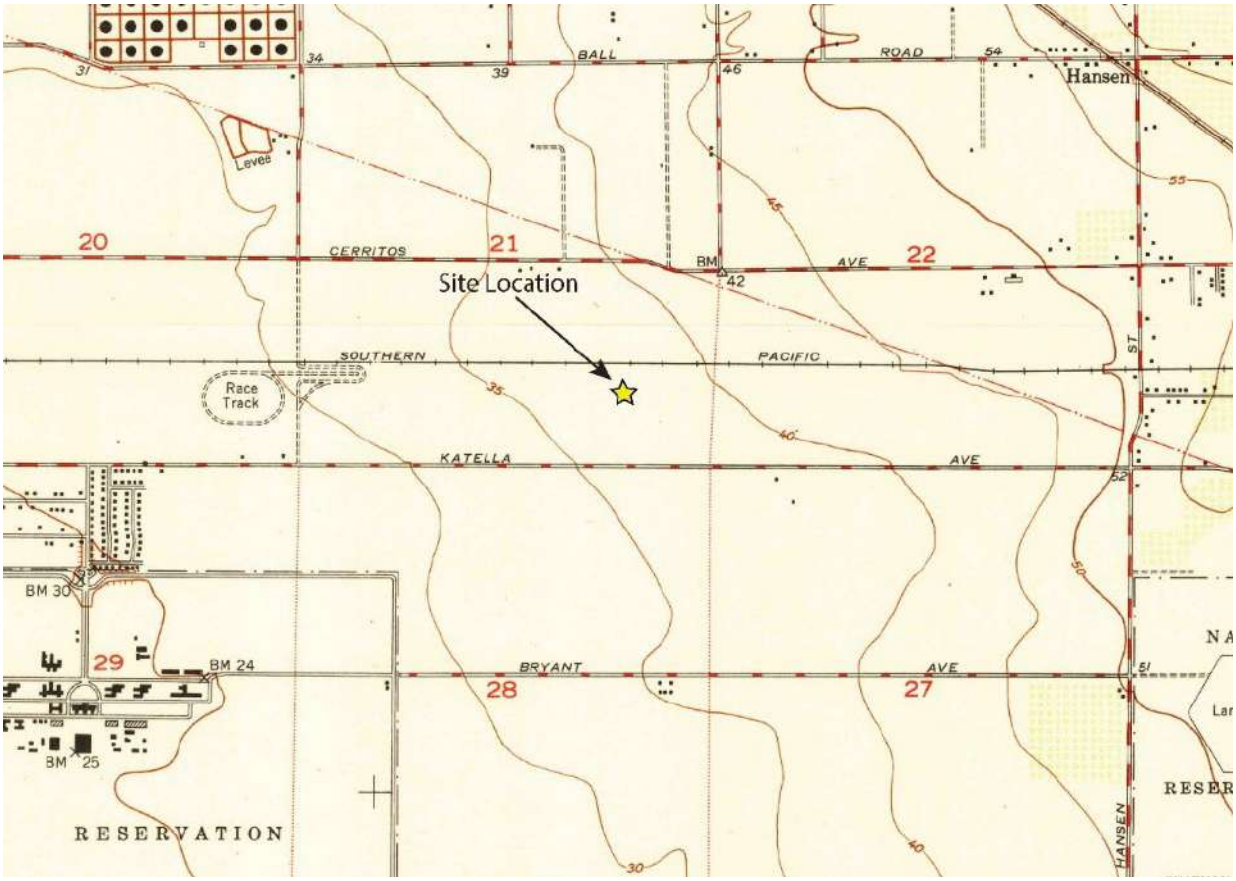


Figure C. Excerpt from U.S. Geological Survey 1950 topographic map of the Los Alamitos Quadrangle (1:24,000 scale; 5-foot contour interval) showing approximate location of project site at Elevation 37± feet above mean sea level (not to scale; site location is approximate; for illustrative purposes only).

With regards to the above, no buildings or other meaningful development were noted on or very near the site until the current development. The agricultural uses, based on historical review, indicate only "open ranch" replaced later by basic row crops. With respect to anthropological

development, the general area was open space that served as a mix of rural and agricultural development. This continued through the early to mid-20th century. During that time, agricultural processing and use may have influenced the upper few to possibly locally several feet of onsite soils. Since that time, the area has been subject to heavy urbanization. This has likely created minor fills and modifications to the topography. The modifications include roadways, building pads and similar in support of development. This results in local fills and cuts of a few to locally several feet. The area has been heavily urbanized. Locally, the majority of the area is built out. The existing conditions onsite are part of a larger commercial development ("Cypress Technology Center") that includes commercial buildings and associated paved parking areas.

Flood Hazards

The major drainages – namely the San Gabriel and Santa Ana Rivers – have been largely channelized, along with storm water controls effectively "stabilizing" the area from further fluvial activity. Review of FEMA Flood Hazard Mapping (06059C0116J) indicates that the site is outside the 100-year flood plain but within the 500-year flood plain (i.e., in a zone assigned a 0.2-percent chance of being flooded in any given year or once every 500 years on average).

Local Faulting / Seismicity

Our desktop research indicates that the site is not underlain by any known active faults (i.e., Holocene faults that have ruptured in last 11,700 years and are likely to rupture in the future per the Alquist-Priolo Earthquake Fault Zoning Act). According to the Cypress General Plan, the nearest zoned "active" fault includes the Newport-Inglewood Fault Zone (5.1 miles southwest of the project site). Other nearby "active" faults include the Whittier-Elsinore Fault Zone (11.6 miles northeast of the project site). Nearby Quaternary faults includes an inferred portion of the Los Alamitos fault, located 2.2 miles southwest of the site, the faults in West Coyotes Hills, 8.2 miles northeast of the site, and the El Modena fault and Peralta Hills fault, located 10.2 and 11.3 miles easterly of the site, respectively. A nearby pre-Quaternary fault is the Norwalk fault, located 5.2 miles northeast of the site. Another concealed fault line (presumed inactive) is located approximately 0.85 miles southwest of the site, parallel to trend of the Los Alamitos Fault.

The local area is seismically active and subject to being impacted by large / damaging earthquakes. Recent historic damaging earthquakes affecting the local area include the 1987 magnitude (Mw) 5.9 Whittier Narrows earthquake and 1994 Mw 6.7 Northridge earthquake, caused by blind thrust faults located in the northern Puente Hills and San Fernando Valley, respectively. These earthquakes generated moderate to strong ground shaking in the local area and slight damage to local structures (Modified Mercalli Intensity V-VI at the subject site). The 1933 magnitude (M_w) 6.4 Long Beach Earthquake reportedly caused severe ground shaking (Modified Mercalli Intensity VIII) and moderate to heavy damage to structures in the local area according to the California Department of Conservation, based on the work of Barrows (1970, Reference No. 4), Trifunac (2003, Reference No. 5), and others. Larger / more damaging earthquakes have the potential to affect the local area in association with seismic events on the San Andreas, San Jacinto, Elsinore, Newport-Inglewood, and other regional fault lines affecting southern California.

The Los Alamitos Quadrangle is a Seismic Hazards Zone and is discussed in SHZR 019. The SHZR notes that the vicinity of the site is susceptible to liquefaction. This is described in more detail in the Seismic Hazards section of this report.

GEOTECHNICAL INVESTIGATION

Field and Laboratory Investigation

On December 13th, 2021, two CPT borings (CPT-1 and CPT-2) were advanced to depths of approximately 50 feet below existing site grade. Between January 3, 2022, and January 4, 2022, five hollow-stem augured borings (B-1 through B-5) were advanced to depths of approximately 31.5 feet and 51.5 feet below existing site grades, respectively. The approximate location of these borings and CPTs by G3 are shown on the attached Boring / CPT Location and Groundwater Map (Figure 2), along with the locations of previous borings / CPTs by SCG. Soil samples were obtained at selected depths and transported to the laboratory for testing.

Geotechnical boring logs for the hollow-stem auger borings and CPT results are included in Appendix A and Appendix B, respectively. Laboratory testing was performed on representative soil samples obtained during the field exploration to determine geotechnical properties of the site's subsurface materials, and the results of this testing are included in Appendix C. Boring logs, CPT results, and related information excerpted from SCG's previous reports (Reference Nos. 2 and 3) are included in Appendix D and Appendix E, respectively.

Subsurface Conditions

Based on the findings of our subsurface exploration, the project site is underlain, in general, by shallow fills and Quaternary alluvial deposits (Qal; synonymous with Unit Qya_2 of Figure 3, described in Local Geology / Geomorphology section). Artificial fill was noted within the upper 5± feet and generally consisted of dark grayish brown, moist to very moist, medium-dense, silty sands. Below about 5 feet depth, the native alluvial materials consisted primarily of very moist to wet silty sands / sandy silts with interbeds / discontinuous lenses of clayey silt / silty clay and poorly-graded sands noted between 35 and 40 feet. A distinct / apparently widespread layer of clayey silt / silty clay was noted at about 15± feet and 32.5 feet in Borings B-1 through B-5, consistent with previous borings by SCG. In general, the relative density and consistency of the alluvial materials, based on SPT / Cal-Mod blow counts, was noted to be predominantly loose to medium-dense and soft to firm. The fine-grained soils were generally low to very low / non-plastic in terms of apparent plasticity. It is likely that some of the fill materials, particularly the lower portions, are of an agricultural nature. Although we did not have opportunity to review any engineering information about the grading of the original development, based on available subsurface information, this agricultural fill may have been processed to varying degrees to accommodate the current development. No adverse organics were noted, however scattered roots and similar were reported in both our and the prior consultant SCG's work. Shallow groundwater conditions are present at the site, with first water occurring at depths of about 6-9 feet below existing surface elevations. Additional information regarding groundwater conditions is provided below.

Groundwater

Monitoring Well Installation / Recent Water Levels

Groundwater was initially encountered / noted in borings B-1 through B-5 between 7 feet and 8 feet below ground surface, which is generally consistent with groundwater levels of between 5 feet and 9.5 feet reported by the previous consultant (SCG; Reference Nos. 1 and 2). As part of our work, a total of five (5) monitoring wells permitted through Orange County Environmental Health Care Agency – Environmental Health Division were installed in borings B-1 through B-5 for the purposes of determining static water levels and as a means of ongoing monitoring for the project. The completed / approved well permit application and supporting documents are included in Appendix F. As-built well diagrams are referenced in the attached Geotechnical Boring Logs (Appendix A) and included as attachments in Appendix G. Estimated groundwater elevations as of January 7th and April 4th (2022) are summarized below and on the attached Figure 2.

Table 1. Estimated Groundwater Elevations / Depths – Wells B-1 through B-5

Well #	Est. Surface Elev. (feet above NAVD88)	Est. GW Elev. (1/7/22) (feet above NAVD 88)	Est. GW Elev. (4/4/22) (feet above NAVD 88)	Change (feet)	Depth to Water (4/4/22) (feet below ground surface)
B-1	38	31.4	31.6	0.2	6.4
B-2	38	31.4	31.5	0.1	6.5
B-3	36	28.9	28.8	-0.1	7.2
B-4	35	28.4	28.6	0.2	6.4
B-5	39	30.3	30.2	-0.1	8.8

Notes: Surface Elevations estimated from Google Earth to nearest 1-foot. Groundwater Depths / Elevations rounded to nearest 0.1 feet. See Figure 2 (attached) additional notes / information.

Hydrogeology / Structure

Groundwater associated with the site / local vicinity is not a singular body but likely comprised of multiple anastomosed zones that are inferred to be locally / partially interconnected and fed by regional and local sources of recharge, including surface infiltration, storm drain leakage, and other shallow / surficial sources. An Upper Zone of “first water” occurs in predominantly silty sands of moderate permeability, and inferred to be largely unconfined / perched on top of a relatively low permeability clay / silt layer noted at 15± feet in Borings B-1 through B-5. An Intermediate Zone, centered at approximately 20-30 feet, generally occurs in silty sands and is inferred to be semi-confined / leaky. Below about 35 feet, a Lower Zone occurring in poorly-graded sands centered at approximately 35-40 feet is inferred to be confined / semi-confined (i.e., “pressurized") based on the presence of confining layers (clayey silts / silty clays) above and below. In general, the sediments controlling groundwater flow occur as sub-horizontal, semi-continuous layers / lenses that generally conduct water horizontally and/or through vertically leakage between zones.

Groundwater Considerations

In general, groundwater associated with the site is shallow and understood to be of incidental / non-beneficial use. The ongoing regional series of droughts may influence the groundwater by tending to depress it. During periods of heavy rains and particularly “wet” rainy seasons,

groundwater may be expected to rise and may mound in areas of concentrated influx. This condition may influence the use of infiltration and other stormwater controls.

The influence of the groundwater on overlying soils is likely to complicate earthwork / excavations, as the groundwater may rise into the work zone by “pumping” effects of heavy equipment, and by capillarity. Where semi-confined groundwater bodies exist, their phreatic head may be higher than their physical occurrence. This condition can exert a pressure on excavation bottoms, creating a “quick” condition, and other adverse effects. This typically requires a zone of isolation of up to several feet between the groundwater surface and the excavation to mitigate.

Shallow groundwater conditions and dewatering should be factored accordingly as part of the design and construction of the proposed development, including its effect on utility installations and general earthwork / construction. Shallow groundwater may be expected to influence utilities and related where they are close to or intersect the water table. The potential effects include flooding / groundwater intrusion, possible bottom heave, and decreased sidewall stability should be accounted for accordingly. Spoils near or below the water table are expected to be relatively wet and may require additional processing (aeration / drying) for use as engineered fill.

Specific details regarding groundwater / dewatering approaches, if needed, are beyond the scope of this report. Once the development plans are firmed up, this office should be consulted on how to proceed with formulating dewatering plans and/or other forms of ground stabilization that may be required to accommodate the proposed development and related appurtenances.

The groundwater at the site may present another hazard that could affect the property long-term in the form of wicking and capillarity, particularly during heavy seasonal rain or transient rise in groundwater. This condition may be expected to cause potential for elevated moisture / vapor intrusion risks to interior structures. Mitigations for such hazards include a robust capillary break and high-quality engineered vapor retarder system underlying a relatively thick slab assembly made of high-strength, low water cement ratio concrete, preferably with a hydrophobic additive (i.e., Xypex / Hycrete). Providing interior ventilation, appropriate exterior drainage, eliminating planters next to / proximal to buildings, and similar can also help mitigate risks associated with moisture / vapor intrusion. This is discussed in more detail in the Recommendations section of this report.

SEISMIC HAZARDS

General

Seismic hazards are typically categorized into two classes: primary and secondary. Primary seismic hazards are those directly related to a seismic event and include strong ground motion and surface rupture due to regional earthquakes and related surface displacements along fault lines. Secondary seismic hazards occur as a result of the primary hazards and include responses of the local ground to seismic shaking like liquefaction, lateral spreading, earthquake-induced landslides, etc. Additional hazards associated with coastal settings and open water bodies include tsunamis and seiche. These hazards and associated risk potentials are described below.

Surface Rupture and Strong Ground Motion

As previously described, active faults do not appear to be present across or very near the subject property. According to the California Geological Survey's web-based application (EQ Zapp), the nearest zoned active faults include the Newport-Inglewood and Whittier fault zones located approximately 5.1 miles southwest and 11.6 miles northeast of the site, respectively. The Fault Activity Map of California (CDMG Map No. 6, 2010) also indicates that the site is not located in an Earthquake Fault Zone of Required Investigations. A small area of recent activity in the Coyote Hills (Fault 433) is present in between the Norwalk Fault and Whittier Fault about 8.25 miles northeast of the site. The local area does include the Los Alamitos Fault Zone (Fault 442) about 2.2 miles southwesterly that is of Late Quaternary age, and not considered active. The Norwalk Fault (Fault 443) is located about 5.3 miles north easterly of the site, along with splay segments of unnamed faults situated about 4.25 miles south-southeast and 3.8 miles easterly of the site. Risk of onsite fault-related ground rupture associated with activity of a known active fault is considered unlikely. However, it should be noted that incidental ground cracking and other phenomena can occur due to high seismic accelerations and regional seismic activity, including effects associated with liquefaction and lateral spread– which should be expected throughout project's design life. Risks associated with seismic shaking and strong ground motion are considered moderate but can be mitigated through appropriate geotechnical / structural design and construction practices. Seismic design parameters based on ASCE 7-16 are included in Appendix H.

Liquefaction / Seismic Settlement

Liquefaction is a phenomenon in which saturated, cohesionless soils lose strength during relatively severe earthquake ground motions, with potential for adversely affecting buildings and road structures. In general, during ground motion, saturated fine sands and silty sands tend to compact and decrease in volume, resulting in an increase in pore water pressure if drainage is impeded. If the pore water pressure becomes equivalent to the overburden pressure, the effective stress becomes zero and, consequently, the cohesionless soil loses its strength and is considered to be in a liquefied state. Factors known to influence the potential for liquefaction include soil type and depth, grain-size, relative density, groundwater level, degree of saturation, and both the intensity and duration of ground shaking.

According to California Geological Survey's web-based application (EQ Zapp), the site is located in Liquefaction Hazards Zone of required investigations and our subsurface exploration, as well as that of the previous consultant (SCG; Reference Nos. 2 and 3), has verified the presence of potentially liquefiable soils to depths of 50 feet. Liquefaction analyses performed by the previous consultant based on the results of their CPT test data (in their Feasibility Study; Reference No. 2) indicated potential dynamic settlements ranging from 5.08 inches to 7.62 inches under a major seismic event. In their Preliminary Geotechnical Investigation Report (Reference No. 3), repeat liquefaction analyses were performed using different analysis methods resulting in dynamic settlements ranging from 2.80 inches to 3.29 inches, including an additional liquefaction analysis of secondary CPT test data resulting in 4.56 inches of settlement.

Site liquefaction potential was evaluated utilizing the computer program LiquefyPro developed by CivilTech Software, based on the subsurface conditions encountered in our CPT-1 and CPT-2 (Appendix B). The results of this analysis indicate potential dynamic settlements on the order of 2.90 inches to 5.27 inches during a severe seismic event. This dynamic settlement is expected to occur over a large area and would result in areal subsidence, and the potential differential settlement is expected to be significantly less over any relatively small segment. However, given the nature of the proposed development, being comprised large-scale industrial warehouse facilities, differential settlements under current conditions could be significant. Remedial grading / foundation considerations and/or in-situ ground improvement measures are recommended hereinafter to help mitigate potential adverse effects due to soil liquefaction. The results of our liquefaction analysis are included in Appendix I.

Lateral Spread

Liquefaction induced lateral spreading is defined as the finite lateral displacement of gently sloping ground as a result of pore pressure build-up or liquefaction in a shallow underlying deposit during an earthquake. Factors known to contribute to lateral spreading include gentle surface slope, free-face conditions, shallow water table, and liquefiable cohesionless soils under a major seismic event. Lateral spreading is typically confined to the displacement of large, surficial blocks of soil in the downslope direction as a result of liquefaction in a subsurface layer.

Commonly associated with lateral spreading are slumping of embankments overlying liquefiable soils, resulting in settlements, lateral displacements, and surface cracks or scarps oriented near parallel to the top of slope. Although these slumps are the result of soil liquefaction, the slope failure can better be characterized as a rotational slide or slump. On flat terrain, lateral spread is limited by lack of topographic differential. During very high ground motion events, lateral spread may occur locally and in conjunction with other more widespread liquefaction mechanisms, and is likely to focus on weak susceptible ground adjacent to channels, excavations, and other locations with topographic discontinuities.

Given the character of the area surrounding the site, and considering the ground improvements afforded by remedial grading that will be associated with the proposed development, and based on performance in prior significant earthquakes, heavy lateral spread is considered a low risk, ground cracking and displacements and localized spread, particularly adjacent to channels, etc. is considered a moderate risk. This risk is improved by ground treatment and dewatering, as well as providing a capping of engineered fill.

Tsunami

Tsunamis are long-period ocean waves generated by the displacement of ocean water resulting from submarine landslides and/or fault rupture during large earthquakes. Coastal inundation / flooding as a result of tsunami can be caused by local and/or distant sources distributed throughout the Pacific Ocean. Tsunamigenic sources include local seismic sources like the Catalina Fault, Newport-Inglewood Fault and submarine landslides associated with the Palos

Verdes Peninsula. More distant sources include subduction-related faulting around the Pacific Rim near Alaska and Chile.

Topographic and regional maps indicate that the subject site is more than 6 miles inland from the coast / Pacific Ocean. The site sits at an elevation of approximately 37± feet above sea level and is not located in an area of known tsunami hazards according to Reference No. 8. Based on the above, risk of tsunami from the known sources described above is considered low.

Seiche

Seiche is defined as a standing wave oscillation effect generated in a closed or semi-closed body of water caused by wind, tidal current, and earthquake. Seiche potential is highest in large, deep, steep-sided reservoirs or water bodies (OFR 79-8). The nearest such bodies are the ponds located at the Los Alamitos racetrack, located 0.6 miles from the site, the El Dorado Park lakes, which are located approximately 3 miles from the site, and Carbon Creek, Coyote Creek, and San Gabriel River located as near as 0.7 miles from the site. Considering the relative distances and the various topographic obstructions, the potential for Seiche effects to the project site due to off-site reservoirs, etc., is considered nil.

It is important to note that in our experience, moderate to high ground motion occurrences can cause seiche effects in pools, spas, and ponds. If pools or other water features are planned near the residence or on the property, consideration for Seiche effects should be accounted for – as nuisance sloshing as a result of earthquake forces may cause localized flooding and related damage in their immediate vicinity.

CONCLUSIONS AND RECOMMENDATIONS

From an engineering geologic standpoint, it is our opinion that the proposed development is feasible, provided that the recommendations provided herein and the City of Cypress grading requirements are incorporated in the design and implemented during construction.

Presented below are general guidelines and preliminary recommendations for incorporation into the project design and construction based on our findings, analyses, reviews and overall experience with similar conditions. These include grading / in-situ ground improvement, structure foundations, seismic design, structure setbacks, exterior flatwork, moisture / vapor retarder system for structures, soil expansion, corrosion considerations, retaining walls, asphaltic concrete pavements, storm water infiltration, utility trench backfills, site drainage, landscape irrigation and maintenance, and plan reviews, observations and testing.

Geotechnical Considerations

The major geotechnical factors that should be considered during project design include the following:

- Soil disturbance resulting from the demolition and removal of existing structures, ancillary elements, and underground utilities;
- Presence of existing fill soils to general depths of about 5 feet, locally more;

- Shallow groundwater levels at depths ranging from approximately 6 to 9 feet below existing site grades, with zones of overlying wetness that may be present;
- Static settlement due to foundation / improvement loading and dynamic settlement resulting from earthquake-induced liquefaction and shallow dry sand settlement;
- Constraints to remedial grading due to shallow groundwater levels;
- High ground accelerations / seismic shaking may be experienced at the site during its design life – therefore, the proposed structures should be designed and constructed to the prevailing standards and seismic design requirements;
- Soil exposure issues related to control of external influences on the structure – including water / moisture / vapor, vegetation (landscaping), soil chemistry (i.e. sulfate / pH issues), exposure to rain and weather.
- Typical measures to mitigate the potential adverse effects due to site liquefaction include the following, in order of decreasing effectiveness:
    - Improvement of liquefiable soils (e.g. dynamic compaction, compaction grouting, removal and replacement with approved compacted fill) would minimize the potential for dynamic settlement of the underlying soils and associated adverse effects to structures.
    - Structures supported on deep foundations (e.g. pile/grade beam system with structurally supported floor slab) would help mitigate temporary loss of foundation support due to liquefaction of the underlying site soils, although there may be some temporary loss of lateral support.
    - Structures supported on mat foundations may suffer distress in the form of differential movement due to temporary loss of foundation support during a major seismic event. However, it may be feasible to re-level mat supported structures utilizing compaction grouting / mud jacking procedures. Mat foundations typically outperform conventional footings in reducing the adverse effects associated with dynamic differential settlement.
    - Structures supported on strengthened conventional foundations (i.e., continuous and spread footings) incorporating some foundation redundancy would provide some measure of mitigation against the adverse effects due to site liquefaction. However, the structure may experience extensive distress.

Considering the type of development (i.e., warehouse / distribution center comprised of concrete tilt-up construction), shallow groundwater levels and associated constraints to remedial grading to mitigate static / dynamic structure settlements, structure sensitivity to differential settlements, and overall site area, recommendations for ground improvement to mitigate potential adverse effects due to soil liquefaction are provided herein. The in-situ ground improvement considerations recommended herein will provide some measure of mitigation and should provide

suitable levels of protection with regard to bearing failure, settlements, and limit lateral displacements, but will not eliminate the potential adverse effects to structures associated with soil liquefaction / dynamic settlement.

The following recommendations are specific to the currently proposed construction. Any deviation from the assumed loads and proposed construction is subject to review by the Project Geotechnical Engineer.

Ground Improvement Considerations

General Discussion

Considerations were given to in-situ ground improvement to mitigate potential site soil liquefaction to provide acceptable support of the planned structures, with limited remedial grading operations considered to provide support for planned pavement construction.

Preliminary assessment for in-situ ground improvement options were performed by Advanced Geosolutions, Inc. – design-build geotechnical contractor, utilizing the field findings available in the referenced Southern California Geotechnical reports and those findings obtained during our geotechnical exploration phase. Based on their assessment, viable ground improvement systems for the subject building include vibro-stone columns or deep soil mixing.

Ground improvement systems are installed under design-build contracts by specialty contractors. The required size, spacing, length, and strength of the ground improvement elements should be determined by the specialty contractor based on the proposed structural loads and desired level of improvement. Prior to submittal, our office will review the geotechnical aspects of the ground improvement program for concurrence with our findings and recommendations and provide comments / revisions as appropriate. The capacities of the ground improvement elements should be determined by the design-build contractor that installs the system; however, for planning purpose, it may be assumed that both ground improvement alternatives will extend to a depth ranging from 20 to 30 feet contingent upon desired structural performance. Based on the chosen ground improvement technique, the upper 12 to 18 inches or more of the working pad may need to be re-compacted after ground improvement installation, due to surface disturbance and potential ground heave. For this reason, we do not recommend preparation of the final pad or the construction of utilities prior to ground improvement.

Preliminary discussions of the two alternate approaches are presented in the following sections.

Stone Column

Stone columns would provide reinforcement within and to the surrounding soil via densification thereby increasing soil shear strengths and associated increased bearing capacities, decrease seismic deformations and associated structure settlements, resulting in reduced foundation costs. The construction process consists of utilizing pre-augered methods. The augered cavities are backfilled with aggregate that is compacted in place using static crowd pressure augmented with a high frequency, low amplitude, vibratory hammer. The impact hammer densifies aggregate vertically while the tamper foot forces aggregate laterally into cavity sidewalls resulting in stiff

stone column elements and stiffened matrix soil.

Stone columns can be installed at generally uniform spacings across the building footprint and to a lateral distance on the order of 15 feet beyond the structure footprints with a total coverage area of approximately 10 to 12 percent. Following installation, the planned structures may be supported by shallow conventional foundations with concrete floor slab.

Alternately, stone columns can be strategically placed at concentrated foundation load conditions, footing locations with input from the project Structural Engineer. For this alternative, conventional footings with structural floor slab would be used.

When considering stone columns, crushed/ processed concrete from demolition operations can be incorporated into the stone mix if the material meets certain criteria, and soil spoil materials generated from the drilling operations can be reused on-site to achieve planned grades and/ or dock height fill placements.

Deep Soil Mixing

Deep soil mixing (DSM) is a ground improvement technique through blending of hardening agent (usually cement grout) with the native soils. The process improves the strength and stiffness of the soil to increase bearing capacity, decrease settlement, and mitigate seismic issues. A revolving hollow shaft with mixing paddles and/or a section of auger (mixing tool) is advanced into the soil. As the mixing tool is advanced into the soil by a combination of rotation and crowd force, a grout slurry (comprised of cement and water) is injected through the hollow-stem and blended with the soil mix, creating a series of soilcrete columns. DSMs can also be amended to provide uplift capacity by introduction of tie-down rebar.

The DSM columns are typically separated from the bottom of the foundation using a minimum 6-inch layer of crushed rock or other similar “cushion material”. No direct structural connection between the DSM columns and the overlying structural element is allowed. Lateral resistance is provided by footing bottom friction at the “cushion” layer interface or passive resistance of the side walls. The target strengths of the DSM soils are usually between 100 to 300 psi at 28 days, depending on load demands. The strength is tested using ASTM D2166 “Standard Test Method for Unconfined Compressive Strength of Cohesive Soils”.

When considering deep soil mixing ground improvement, conventional footings with structural floor slab would be used. Excess soil spoil materials generated can be reused on-site to achieve planned grades and/ or dock height fill placements.

Grading / In-situ Ground Improvements

General

Presented below are recommendations to address site clearing/ preparation and remedial grading associated with the pavement/ ancillary construction and completion of structure pads. The actual design and magnitude of remedial grading and ground improvement will be refined and presented under separate reporting.

Site Clearing and Preparation

- Site preparation and grading should be made under the observation of the Project Geotechnical Engineer or Geologist, Project Engineering Geologist, and/or their field representative.
- Proper measures should be implemented during the performance of grading work to protect the work site, particularly excavated areas, from flooding, ponding and inundation due to poor or improper temporary surface drainage. During periods of impending inclement weather, temporary provisions should be made to adequately direct surface drainage, from all sources, away from and off the work site and to provide adequate pumps and sumps to handle any flow into the excavations.
- Prior to the start of the required earthwork and grading, all vegetation, surface trash, debris, and other deleterious materials should be removed from areas of planned grading and wasted away from the site. Vegetation removal should include root-balls and attendant root systems.
- Removal of existing structures should include foundations, concrete flatwork, and any remaining buried obstructions. Concrete fragments and construction debris from site demolition operations should be disposed of off-site.
- Any pipelines or conduits encountered within the zone of planned grading that are designated for abandonment should be removed from the construction area and ends cut and plugged according to the applicable Code requirements but not less than 10 feet outside the perimeter of the proposed construction area, or as property line considerations dictate. Non-reinforced concrete or clay pipes may be crushed in-place and incorporated in the fill.

Local ordinances relative to abandonment of underground utilities, if more restrictive, will supersede the above minimum requirements.

Remedial Earthwork

The following remedial grading recommendations were developed with consideration for ground improvement (Stone column or Deep Soil Improvement) to provide acceptable processing of the interface between the treatment zone and the overlying building envelop and support for the proposed structures within the development.

1. For planned building pad areas receiving new fill soils to achieve planned grades where the underlying soils were treated as described herein, remedial grading should consist, as a minimum, of an 8-inch scarification of the exposed soils and recompaction to at least 90 percent relative compaction at 2 to 3 percentage points wet of optimum moisture conditions (ASTM: D1557). Should unstable bottom conditions be experienced, additional site overexcavation and recompaction and/or bottom stabilization methods may be warranted and should be performed in accordance with our field recommendations based on the actual conditions encountered at the time of grading.

2. For planned building pad locations in areas of planned grade cuts, remedial grading should be performed, as necessary, to provide a working platform for stone column installation and deep soil mixing. During aggregate pier installation, it is anticipated that the upper approximately 12 to 18 inches of pad grade soils will become disturbed. Disturbed materials extending below proposed subgrade elevations will need to be reworked as engineered compacted fill. Additional remedial grading efforts should be performed, as necessary, based on the actual conditions exposed at the time of remedial grading efforts and to the satisfaction of the ground improvement specialist.
3. In areas extending beyond the zone of in-situ ground improvement, the existing site soils should be over-excavated to a 5 feet (minimum) depth below planned finish or existing site grades, whichever depth is greater. For ancillary foundation support, additional over-excavation should be performed, as necessary, to provide minimum of 3 feet of engineered compacted fill beneath footings, and to a lateral distance of 3 feet beyond footing edges.
4. Should undocumented fill soils outside the limits of the recommended ground improvement be exposed at depths greater than 5 feet the condition of the fills exposed should be evaluated in order to enable our office to provide additional recommendations, as appropriate.
5. As discussed in the Groundwater section of this report, the site is underlain by relatively shallow groundwater. A dewatering plan should be considered to mitigate this in construction. Even with an appropriate dewatering program, some excavation areas may experience wetness and or soft ground that may require supplemental means and methods to address, including local sumping and pumping, rock / lime / cent treatment, and top-loading.
6. Note that the groundwater at the site has likely been influenced by long-term regional drought and may be affected as a result. The effect would be expected as a sympathetic lowering. Therefore the water level may be higher in response to wet weather periods.
7. Dewatering, as may be required, should be performed in advance of the planned work, it may take considerable time to lower groundwater significantly. Note that once the ground in an excavation bottom is damaged by pumping and or turning quick, it can be difficult to regain control.
8. Dewatering may assist in ground improvement. It may be possible to integrate the dewatering with other ground improvement work planned for the site.
9. A study based dewatering program is recommended. Dewatering and disposal of developed water will likely require a permit from the State Regional Water Quality Control Board, and possibly other jurisdictions.
10. The shallow groundwater may adversely influence infiltration and other stormwater management options. An evaluation of storm drainage management and infiltration should be considered.

Excavation Procedures

Temporary excavations performed 4 feet or deeper in vertical should be shored or sloped in accordance with Cal OSHA requirements. Special construction techniques, such as slot cutting, may be utilized if excavations are greater than 4 feet vertical and site constraints preclude use of temporary slope cuts.

Excavations located along property lines and adjacent to existing structures (i.e. buildings, walls, fences, etc.) should not be permitted within two (2) feet from the existing foundations. Temporary slopes, if utilized, should be no steeper than 1.5:1 (horizontal: vertical) gradient with maximum height of slope not exceeding 20 feet. A representative of this firm should be present on-site during excavations to verify acceptability of temporary slopes. Acceptability will be dependent upon the soil conditions encountered, construction procedures and schedule.

Excavation slopes and cuts daylighting seepage, or seepage occurring at or near the base of these excavations may develop instability, raveling and piping. These should be addressed in the field by the geotechnical consultant on an actual conditions case-by-case basis.

It is imperative that grading schedules be coordinated to minimize the exposure time of these unsupported excavations. Once started, these excavations and subsequent fill operations should be maintained to completion without intervening delays imposed by avoidable circumstances. In cases where five-day workweeks comprise a normal schedule, grading should be planned to avoid exposing a grade or near-grade excavation through a non-work weekend. Where improvements may be affected by temporary instability, either on / or offsite, further restrictions such as slot cutting, extending workday-weekend schedules, and/or other requirements considered critical to serving specific circumstances may be imposed. Removal of unsuitable materials also may be affected by the above requirements.

Excavation Bottom Preparation

The acceptability of excavation bottoms should be evaluated by the Project Geotechnical Consultant prior to placing approved fill soils. Excavation bottoms should be thoroughly moisture conditioned, as necessary, to 2-3 percentage points above optimum moisture content depending on the soil type exposed, scarified to a depth of about 8 inches and compacted to minimum 90 percent of the laboratory maximum dry density (ASTM: D 1557). Should severe pumping and heaving conditions be experienced during excavation bottom preparation, it may be necessary to stabilize the bottom with a one to two feet layer of aggregate base material placed in a single lift rolled lightly with static equipment to achieve a firm and unyielding condition. The method of stabilization would be determined by a representative of our office at the time of grading and would be dependent upon the actual conditions encountered, equipment used, etc.

Fill Placement and Compaction

Fill materials should be placed in loose lifts not exceeding thickness that can be adequately and thoroughly processed and compacted by the equipment and methods utilized. These materials should be processed by blending and moisture conditioning to 2-3 percentage points above optimum moisture content, depending on the soil type, and compacted to at least 90 percent

relative compaction based on the laboratory maximum dry density assigned – to the satisfaction of the Project Geotechnical Consultant. All grading should be performed under the observation and testing of the Project Geotechnical Consultant or his representative.

Fill Materials

Fill materials should consist of clean onsite soil and imported soils and should be free of vegetation, reinforcing steel, hazardous materials, rocks greater than 6 inches in maximum dimension, and any other organic or deleterious materials.

It may be feasible to incorporate inert construction debris (concrete, brick, and asphalt) in the fill materials. The acceptability of this material for incorporation into the fill, and in particular when placed beneath the structure footprints, will be subject to the review and approval by the project environmental consultant. In general, said construction debris should be processed to 1.5" maximum sizes, and be blended with sufficient granular soils to infill void space, with resulting soil blend exhibiting less than 30 percent retained on the 3/4" sieve size. Crushed material blends should be reviewed by our office for acceptability prior to use as engineered fill.

Import soils, if required, should exhibit engineering properties similar to or better than the on-site material. The import soils should be approved by a representative of this firm, at the borrow site, at least 48 hours prior to importing.

Shrinkage and Subsidence

Based on the available field and laboratory test data obtained by the previous consultants and during the course of this geotechnical investigation, soil shrinkage factors within the upper 5 to 6 feet of existing grade are anticipated to generally vary from about 5 to 20 percent, when recompacted as structural fill. This range in soil shrinkage values most likely reflects variation in soil types relative to available maximum density test results, non-uniform fill soil conditions, and other factors. A shrinkage factor range of between 10 to 15 percent, with consideration for the upper bound limits of this range may be assumed for preliminary design purposes. Losses due to stripping of vegetation, demolition, unsuitable soil disposals, subsidence, etc. should also be accounted for in volume estimates.

Ground subsidence due to the removal / replacement of the site soils as recommended above is expected to be variable and would occur as a result of soil consolidation of the underlying natural soils due to increased loading from additional fill placements to achieve planned finish grades, as well as increased loading from excavated / recompacted soil materials. Some ground subsidence should be anticipated in areas to receive additional fills, and settlement monuments may be considered in those areas receiving new fills greater than about 4 feet above current site grades outside the limits of in-situ ground improvement.

Testing and Observations

Site preparation, grading, compaction, and backfill operations should be performed under the observation and testing of the Project Geotechnical Consultant or his representative. An adequate number of field tests should be performed to verify compliance with recommendations presented

in this report and local ordinances.

If it is determined during grading that site soils require over-excavation to greater depths for proper structural support, this additional work should be performed in accordance with the recommendations of the Project Geotechnical Consultant.

Fill materials should be compacted to the minimum 90 percent relative compaction based on the assigned laboratory maximum density determined in accordance with ASTM: D 1557. Road subbase and basecourse may require 95% relative compaction.

Foundations

Presented in the following are geotechnical criteria for design and construction of shallow conventional footings as well as concrete slab criteria for the proposed structures. Foundation design should consider anticipated post-construction settlements under both static loads and short-term seismic conditions, as appropriate.

Structure Foundations

Presented in the following are preliminary geotechnical criteria for design and construction of shallow continuous and spread footings for the support of structures with consideration for in-situ ground improvement support.

Allowable Bearing Pressure (1)	=	2,500 psf
Minimum Footing Depth (2)	=	24 inches
Minimum Footing Width	=	Per 2019 CBC
Passive Soil Pressure (3)	=	250 psf/ft., subject to 2,500 psf maximum
Friction Coefficient	=	0.4 (ultimate)
Minimum Footing reinforcement	=	For continuous footing, min. four No. 4 bars, two at top and two at bottom.

(1) The above value may be increased 250 lbs./sq.ft. for each additional foot exceeding the minimum embedment depth, subject to a maximum of 3,500 psf. Allowable bearing pressures may be increased one-third for short term loading due to wind of seismic forces.

(2) Footing depth is below lowest adjacent soil grade. Footings should be deepened, as necessary, to depths equivalent to existing adjacent foundations, where applicable.

(3) Passive soil pressure value is for level soil conditions adjacent to footings.

Ancillary Construction

For ancillary construction located outside the limits of proposed in-situ ground improvement, the following design criteria may be used:

Allowable Bearing Pressure (1)	=	1,500 psf

Minimum Footing Depth (2)	=	18 inches
Minimum Footing Width	=	Per 2019 CBC
Passive Soil Pressure (3)	=	200 psf/ft., subject to a maximum of 2,000 psf
Friction Coefficient	=	0.40 (ultimate)
Minimum Footing Reinforcement	=	For continuous footings, min. four No. 4 bars, two at top and two at bottom.

(1) Allowable bearing pressures may be increased by one-third for short term loading due to wind or seismic forces.

(2) Footing depth is below lowest adjacent soil grade and founded on engineered compacted fill.

(3) Passive soil pressure value is for level soil conditions adjacent to footings.

General Foundation Construction Comments / Guidelines

General remarks regarding the construction of conventional footings are presented below:

Footing embedment depths should be maintained throughout the life of the structure, and not compromised via erosion softening, digging, landscaping, etc.

Where foundations encroach closer than five (5) feet horizontally from the flow line of drainage swales, the footings edges should be deepened sufficiently to maintain the required embedment depth below the adjacent flow line.

Foundation details such as concrete strength, reinforcements, thickness, etc. should be established by the Project Structural Engineer, considering the loading conditions. The recommended foundation embedment, thickness and reinforcements are minimum requirements and should be established by the Project Structural Engineer. More restrictive criteria based on structural design considerations or Code requirements shall govern.

Foundation excavations should be observed and approved by the Project Geotechnical Engineer prior to the placement of reinforcement or concrete. Forming of footing excavations may be required. Excavations should be free of slough and debris and thoroughly moisture conditioned prior to placing concrete.

Excavated material from footing and utility trenches should not be placed in slab-on-grade areas unless properly compacted and tested.

Footings should be doweled to the floor slab with No. 4 bars at 18 inches on center.

Floor slabs should be underlain by a moisture vapor retarder, as recommended hereinafter, to mitigate moisture / water vapor intrusion into the structure.

Foundation details such as concrete strength, reinforcements, etc. should be established by the Project Structural Engineer. More restrictive criteria based on structural design considerations or

Code requirements shall govern.

Concrete Floor Slab-on-Grade

Presented below are preliminary geotechnical criteria which may be used for concrete floor slabs on grade.

Concrete Slab Thickness = 7 inches or per structural design

Minimum Reinforcement = Per Structural Engineer

In order to minimize migration of moisture through the concrete slab from soil sub-grade and damage to floor coverings, a moisture / water vapor retarder system should be placed beneath floor slabs in areas to be tiled, carpeted, or otherwise considered moisture sensitive. Recommendations relating to the placement and location of this moisture vapor / retarder are provided in the “Moisture / Water Vapor Retarder for Concrete Slab-on-Grade” section. The use of a hydrophobic additive, such as Xypex or Hycrete, in the concrete should be considered, given the shallow groundwater conditions.

The prepared soil sub-grade should be moisture conditioned to and maintained at about 1 to 3 percentage points wet of optimum moisture contents to a depth of 12 inches and exhibit at least 95 percent relative compaction as determined by ASTM: D1557.

Interior floor slabs should be properly designed for the construction and service loading conditions, and potential differential movements. The structural details, such as slab thickness, concrete strength, reinforcing criteria, joint spacing, etc. should be established by the Project Civil / Structural Engineer.

To minimize slab curling, a low shrinkage / low slump concrete (concrete mix with a minimum 4,500 psi compressive strength and maximum water cement ratio of 0.45) should be used for the slab construction, as determined by the Project Structural Engineer. The mix design should be verified by the Project Civil / Structural Engineer, and placement of concrete should be observed and certified by the Concrete Deputy Inspector, as required.

Settlements

Some structure movement should be expected both during and following construction, even when supported on a zone of in-situ ground improvement, due to various factors including, but not limited to:

- Surcharge loading due to dock height fill construction;
- Sequence of foundation and slab loading during construction;
- Variation in structural loads along foundation elements;
- Variation in underlying soil types with different compressibility indices and subsurface soil profile and associated primary and long-term secondary consolidation settlements; and
- Potential dynamic settlement under a major seismic event

Total static settlements for foundations would be dependent upon the actual structural loading conditions and configuration, remedial grading performed, final grades, and final design / specifications and installation of the ground improvement program. For appropriately designed and constructed structure foundations and supporting loads typical for the concrete tilt-up construction (column and wall loads on the order of 125 kips and 5 kips/lineal foot, respectively), static settlement estimates following in-situ ground improvement are estimated to be on the order of 1-inch total. Differential settlements under static conditions are not expected to exceed ½-inch over a distance of approximately 50 feet and between similarly loaded adjacent foundations.

Under exposure to short term seismic loading during a major seismic event, the site is prone to additional settlements due to soil liquefaction. Liquefaction settlements under seismic conditions are anticipated to vary with the variance in the underlying site soil conditions. For preliminary design purposes and when considering in-situ ground improvement, average dynamic settlements on the order of 1-inch total may be considered and are expected to occur over a large area. Generally, the differential settlements at level sites are expected to be small even if the total settlements are large, and for preliminary design purposes are estimated to be on the order of ½ inch over a distance of approximately 50 feet. Potential dynamic settlements under a major seismic event should be further evaluated/ substantiated by our office and the ground improvement specialist based on review of the ground improvement program selected.

Total and differential settlement potentials for ancillary construction outside the limits of in-situ ground improvement would be dependent upon foundation loads, location relative to planned grade cuts and fill placements, etc. For preliminary design purposes, total and differential static settlements on the order of 1 inch and ¾ inch over a distance of approximately 30 feet may be considered for lightly loaded ancillary footings supported on engineered compacted fill as recommended in the Grading section. Under seismic load conditions, additional potential total and differential settlements could be on the order 2-1/2-inches and 1-1/2 inches over a distance of 50 feet respectively

The above estimated potential settlements should be substantiated by our office and the ground improvement specialist based on review of final foundation plans and proposed ground improvement measures and limits.

Additional Considerations Regarding Settlement and Improvements:

1. General fill equilibrium will develop with time but is most affected by changes in soil moisture;
2. Sequence of foundation and slab loading and variation in structural loads along foundation elements during construction can impact differential movements;
3. Variation in underlying soil types with different compressibility indices, subsurface soil profiles, and subsurface drainage systems and conditions will affect primary and long-term secondary consolidation settlements;
4. Moisture changes due to climatic and non-climatic influences following construction, and associated shrink / swell of expansive soils;

5. Soil shrinkage and expansive behavior will be separate and is considered independent of settlement as a result of fill placement and associated loading from water and structures;
6. Soil shrinkage and expansion effects that are not reconciled in the design and construction will have a direct impact to top of slope improvements and associated lateral deformation;
7. Adequate and properly designed and functioning area drainage systems combined with the proper landscape design and watering programs would significantly help reduce the potential for expansion and shrinkage and long-term slope deformation; and

It should be noted that moderate slab on grade cracking may be observed within the first week after construction that are not related to soil movement. These are related to water cement ratios exceeding specifications and inappropriate finishing techniques.

Seismic Design Considerations

The site is in a zone of high seismic activity / exposure. Strong ground motion from an earthquake generated along active faults should therefore be anticipated at this site. Based on the presence of liquefiable soils to depths down of 50 feet below the site, the site qualifies as Site Class F and the proposed development should be designed and constructed to the prevailing standards regarding seismic design. Seismic design parameters based on standard procedures for Default Site Class D (ASCE 7-16) are included in Appendix H and should be reviewed for acceptability by the Project Structural Engineer based on current and applicable CBC requirements, as appropriate.

Moisture / Water Vapor Retarder for Concrete Slab-on-Grade

It should be recognized that, even with site surface and sub-drainage measures, there is potential for saturation of ground beneath concrete floor slabs due to water infiltration from irrigation, rain, and run-off or flow through the soil subgrade. The upward migration of moisture in vapor phase from soil subgrade through the slab-on-grade is inevitable. It is imperative that the Contractor properly install the recommended site drainage measures, utility trench backfill, and the moisture / water vapor retarder system in accordance with the project design requirements and specifications to mitigate potential moisture / water vapor transmission into the structures.

On this project, the presence of relatively shallow groundwater is expected to exacerbate moisture-vapor intrusion issues.

In order to reduce the potential for moisture / water vapor migration up through the slab in moisture sensitive areas, and possibly affecting floor covering, wood cabinets and other objects, a moisture / vapor retarder is recommended under concrete slab-on-grade in these areas. The recommendations provided below are based on the guidelines of the American Concrete Institute:

The moisture / water vapor retarder should consist of high strength membrane and should meet or exceed the ASTM: E-1745-97 Class A material requirements for water vapor permeance, tensile strength, and puncture resistance. The vapor retarder should consist of “Stego Wrap” (Stego Industries, LLC) or “Vapor Block” VB 15 (Americover, Inc.), or approved equal.

The installation of the moisture / water vapor retarder system requires specialized knowledge and experience and should be accomplished with the technical assistance and supervision of retarder system manufacturer and/or supplier. The membrane should be properly lapped and sealed. Membranes intersecting utility pipes, sewer lines, ducts or drains must be properly wrapped around the penetrations and sealed. All punctures and rips in the membrane should be repaired prior to placement of concrete, following manufacturer's recommendations.

The vapor retarder should be installed in general accordance with the procedures outlined in ASTM: E-1643, and in conformance with the installation procedures recommended by the manufacturer.

In addition, floor coverings (e.g., wood, tile, etc.) and other built-in features should be carefully selected with vapor transmission in mind and include proper preparation and installation in accordance with the manufacturer's recommendations.

Moisture-vapor intrusion may be further reduced at the slab level by use of consistent and low water cement ratios (ie. do not allow addition of water to concrete during the pour operations), proper finishing and curing (moist or wet cure for the first several days will reduce permittivity) and consider use of a hydrophobic additive such as Xypex or Hycrete that heal microcracks and seams and improve overall water resistance.

It should be emphasized that, even with proper moisture / water vapor installation, proper control of irrigation and landscape water adjacent to the structure is very important to minimize problems caused by moisture and water vapor intrusion and is the responsibility of the Property Manager / Owner, including the maintaining of proper site drainage as recommended hereinafter.

Planters and similar open to the ground adjacent to building areas is an invitation to moisture and other problems. These should be avoided. Concrete / paved surfaces should have clear positive drainage away from the building to an approved disposal / drain. Roof drains should include hard conveyance away from the proximity of the building.

Soil Expansion

The near surface site soils consist predominantly of sandy soils, and these soils are expected to exhibit very low soil to low expansion. During site grading, the soil expansion potential of the exposed soil blend should be verified by additional laboratory testing.

Soil Corrosion and Concrete Design

Based on the laboratory test results presented in Appendix C, sulfate exposure for concrete ranges from S0 to S1. It has been our experience that post-construction factors such as near surface soil wetting and drying cycles, and other changes with time can increase the concentrations of soluble sulfate and other derogatory salts and these conditions predispose them to being highly corrosive to both concrete and buried metals. Higher strength concrete with lower water / cement ratio will improve overall slab performance, durability, and water and corrosivity resistance.

In an abundance of caution and to account for potential future conditions, we recommend

concrete in contact with soils be designed for a minimum compressive strength of 4,500 psi and maximum w:c = 0.45.

Laboratory tests to evaluate the potential soil corrosivity to metallic installations were performed as part of the Feasibility Study by SCG (Reference No. 2). Based on these preliminary results, the soils along with any transient waters flowing through them should be considered to be highly corrosive to metals in contact with them. Attention to minimizing galvanic / chemical corrosivity (i.e., protective coatings, dielectric couplings, eliminating mixing metal types in contact or in near vicinity to each other) where in contact with soil and soil moisture can minimize these effects. An experienced corrosion consultant should be retained and their recommendations incorporated into the design if special / critical corrosive issues exist or further corrosion potential study is warranted.

Retaining Walls

Lateral Earth Pressures

The earth pressure acting on retaining walls depends primarily on the allowable wall movement, type of backfill materials, backfill slopes, wall inclination, surcharges, and hydrostatic pressure.

The following lateral earth pressures are recommended for the design of vertical cantilevered retaining walls (active case) and restrained walls (at-rest case) with no hydrostatic pressure, level backfill conditions, and no surcharge loading.

Wall Condition	Backfill Type	Equivalent Fluid Pressure
Active (Cantilever)	Sandy soils	40 pcf
At Rest (Restrained)	Sandy soils	60 pcf-

These values are applicable for compacted sand backfill placed between the wall stem and an imaginary plane at 45 degrees from the edge of wall footing.

For design purposes, walls supporting dock height fill construction should be based on at-rest earth pressures. The surcharge effect of anticipated loads on the wall backfill (e.g. traffic, construction equipment, footings, etc.) should be included in the wall design. For walls free to deflect or restrained, 33 or 50 percent, respectively, of the maximum surcharge load located within a distance equal to the height of the wall

Backfill

Retaining wall backfill should consist of select backfill comprised of free-draining granular soils exhibiting an expansion index (EI) of 30 or less. The backfill should extend within a 45-degree plane from the wall footing.

Retaining wall backfill should be mechanically compacted to minimum 90 percent of the applicable laboratory maximum density (ASTM: D1557) and performed under the observation and testing of the Project Geotechnical Consultant.

No jetting, ponding, or flooding should be permitted. No backfill should be placed against concrete

until minimum design strengths as determined by compression tests of cylinders are attained.

Retaining Wall Backdrainage

As a minimum, subdrainage system for retaining walls (excluding walls supporting dock height fill construction) should be included as part of retaining wall construction. Sub-drains should consist of 4-inch diameter, perforated Schedule 40, PVC pipe or equivalent, embedded in approximately 3 cubic feet per lineal foot of clean, ¾-inch crushed aggregate, or approved alternate. This permeable material should be enveloped in geofabric consisting of Mirafi 140 or equivalent. The pipe and trench bottom should be sloped at a gradient of 2± percent to a suitable discharge outlet. Sub drains placed behind retaining walls should be approved by the Project Geotechnical Consultant prior to backfill placement.

Should seepage be experienced through retaining walls from nuisance water (e.g., irrigation, precipitation), staining and mineral development may result and necessitate periodic maintenance / cleaning. Note that efflorescence should not be confused with permeating water effects; some efflorescence is to be expected and is considered normal.

Concrete Flatwork

Exterior Flatwork

The concrete slab design and construction details should be established by the Project Design Engineer. From a geotechnical standpoint, the minimum criteria for exterior flatwork should consider low soil expansion potential and should be in accordance with the requirements of the project structural engineer and specialty contractor / consultant. Exterior hardscape / pavement construction in areas to receive substantial new fills to achieve planned grade elevations are expected to exhibit post construction total and differential movement due to surcharge fill loading on the underlying native soils and this may occur over several months or more. Depending on the magnitude / severity of post construction movement, it may be necessary to perform periodic repairs and/or relevelling / replacement of affected hardscape. Sidewalks and walkways should be 4 inches thick (minimum) and may be placed directly on the approved compacted subgrade. To control cracking, the slab should include joints at approximately 10 feet spacing (maximum). The slab design and construction details should be established by the Project Design Engineer.

Slab Sub-Grade Pre-Saturation

Prior to concrete placement, the prepared soil sub-grade should be moisture conditioned to and maintained at about 1 to 3 percentage points wet of optimum moisture contents to a depth of 12 inches and exhibit at least 90 percent relative compaction as determined by ASTM: D1557.

Asphalt Concrete Pavement Design

For preliminary design purposes, the following asphalt concrete pavement sections are recommended for the automobile parking lot and access drive areas. These sections were computed using Caltrans Highway Design Manual method, based on the assumed Traffic Indices shown below and an assumed R-Value of 20 for the resulting blend of site soils compacted as sub-grade.

Pavement Utilization	Traffic Index	Asphaltic Concrete (in.)	Aggregate Base (in.)
Parking Areas	5.0	4”	6”
Access Drives	8.0	6”	12”

The applicability of assumed traffic indices should be verified by the Project Civil Engineer. Aggregate base should consist of crushed base (CAB or CMB) as specified in the Standard Specifications for Public Works Construction (Green Book) and be compacted to 95 percent of the maximum laboratory density determined in accordance with ASTM: D1557.

The soil sub-grade to a depth of 5 feet should be compacted to minimum 90 percent relative compaction in accordance with the recommendations under “Site Grading”. The surface of the subgrade soil supporting basecourse should be compacted to at least 95% relative compaction and exhibit a firm and unyielding surface immediately prior to placement of base material, in addition to the recommended minimum compaction. Final compaction and testing of pavement sub-grade should be performed just prior to placement of aggregate base, so that the subgrade does not deteriorate for whatever reason in the interim..

The pavement sections shown above should be considered tentative and should be verified by R-value testing of sub-grade soils at the completion of grading. Further analysis and evaluation are necessary, if the design traffic index and the sub-grade R-value are different from those used in our analyses.

Should pavement construction be performed in stages, with the initial course section to be followed by asphalt cap layer after completion of on-site construction, it should be noted that some repairs / replacement of pavement should be anticipated, particularly in areas of concentrated construction traffic and along junctions prone to water seepage to the underlying pavement subgrade soils (e.g., pavement edges adjacent to curb / gutter construction).

Concrete Pavement Design

Concrete pavement design was based on review / comparison of the following methodologies with consideration for assumed truck frequencies at the subject property.

For the PCA Simplified Design Procedure, the following parameters were considered: Axle Load Category of 2 assigned to collector streets, rural and secondary roads (relatively high axle loads for this category) and arterial streets and primary roads (relatively low axle loads for this category), respective maximum single and tandem axle load distributions of 26 kips and 44 kips, low subgrade soil support, pavements with doweled joints for load transfer, supported edges (curbs, gutters or widened lane), and a concrete Modulus of Rupture (MR) of 650 psi.

For the ACI Guideline Document - “Guide for the Design and Construction of Concrete Site Paving for Industrial and Trucking Facilities” (ACI330.2R-17), considerations were given to a Modulus of Subgrade Reaction of 150 pci, a concrete Modulus of Rupture (MR) of 650 psi, supported pavement edges, dowels in construction joints, and axle load distributions representative for major arterial over-the-road truck category.

For both methods, two-axle four tire trucks are excluded, and concrete pavement section considerations assume appropriate construction/ contraction joint spacings and joint sealing, and minimum design service period of 20 years.

Concrete Pavement Section

Based on the above considerations, the following concrete pavement sections are recommended:

Trucks Per Day (*)	Concrete Pavement Thickness (**)
50	6 inches
100	7 inches

(*) For axle load distributions representative for over-the-road truck category major arterial per day design lane.

(**) Minimum concrete compressive strength of 4,500 psi with maximum water cement ratio of 0.45 and Concrete Modulus of rupture of 650 psi.

The Project Civil / Structural Engineer should establish structural details of the pavement, such as concrete mix design, reinforcing, longitudinal and contraction joints, load transfer devices, etc. As a minimum the longitudinal and contraction joints should be based on PCA and ACI guidelines.

The above Portland Cement Concrete pavement sections are a minimum. More restrictive criteria based on civil / structural design and jurisdictional requirements shall govern.

Pavement Subgrade

The subgrade soils beyond the limits of in-situ ground improvment should be over-excavated to a depth of at least 5 feet and recompacted to minimum 90 percent relative compaction at approximately 1-3 percentage points above optimum moisture content (ASTM: D1557). The uppermost one foot of the pavement subgrade should be compacted to at least 95 percent relative compaction and exhibit firm and unyielding condition prior to placement of base material.

Subbase Considerations

The pavement subgrade soils are expected to be comprised of a blend of the near surface soils at the completion of remedial grading operations. The use of a subbase directly beneath concrete pavement construction can improve load transfer across the joints and mitigate potential for soil erosion and pumping along the joints where the soil subgrade blend may include more than 15 percent fines passing the No. 200 sieve size. Upon request, recommendations for incorporating a subbase layer beneath concrete pavement construction can be provided.

Joint Spacings and Dowels

Longitudinal and contraction joints should be based on ACI / PCA guidelines. Concrete pavement crack control joints should be spaced at a minimum of 10 feet (5 feet preferred, and not exceeding 14 feet) on center with dowels incorporated along contraction joints or other load transfer mechanisms, or as specified by the Project Civil / Structural Engineer and should include additional joints to facilitate irregular pavement boundary conditions. From a performance

standpoint, closer spacing and strategic location of control joints at returns, corners, and other areas that focus stress should be considered.

Where movement is expected in a construction or control joint, and both sides are restrained, a combination of waterstop (where transmission of water through the joint is to be avoided) and doweling may be used. Dowels installed across construction joints may consist of 1.5-inches diameter, epoxy-coated smooth dowels, 18 inches in length, placed mid-height of slab and so the dowel is centered across the joint, and spaced at 12 inches on center where joint is new to new.The dowel should be greased to limit bonding so slip may occur. In the case where movement is expected, but joining existing to new, the dowels should be placed similarly, but embedded and epoxied accordingly into the existing work, and the unbonded end that will extend into the new work greased with commercial waterproof grease.

Waterstops for control joints accommodating movement should preferably consist of the “hard” plastic type that have a crude dumbbell or similar shape and a center bulb that can accommodate the anticipated range of motion. The details of installation are highly dependent on the nature and expectations of the joint. We would be happy to provide additional input and recommendations to address particular conditions.

Where the control joint is to be restrained, such as in concrete pavement, doweling may consist of #5 or larger bar placed at slab mid height following the above criteria (18” overall dowel length, centered over joint, spaced 12” on center. Where joining new to new, the deformations of the rebar should provide adequate “bite;” where joining existing to new, the new rebar should be placed into an appropriately sized and cleaned out hole drilled into the existing work, and the dowel half embedded in the hole by epoxy.

Where control joints in concrete pavement occur where standing water or flowlines are associated (such as where pavement section joins a gutter, intake basin or similar), a waterstop incorporated into the joint should be considered to limit influx of waters into the subgrade. Consideration to thicken the edges of the slab on either side of the joint should be given where a higher degree of performance is expected.

Alternatively, the design may be per Civil / Structural Engineer design.

Factoring Site-Specific Considerations

Site specific factors such as expansive soils, variability, mediocre drainage, and related factors need to be considered. Should anticipated truck frequency and / or maximum truck axle loading conditions be different from the above assumed considerations, our office should be contacted for further evaluation and recommendations, as appropriate.

Curb / gutters should be monolithic to the extent feasible. Pavement edges in the proximity of open ground or similar may benefit from a thickened edge.

Special Note - Finishing and Curing of Concrete

Of critical importance to the long-term / lifelong behavior and performance of concrete is how it is place, finished, and preliminarily cured. Detailed studies by the Bureau of Reclamation have

shown that low water-to-cement ratio, high strength concrete – such as is recommended herein – has inherently much lower shrinkage and much higher water tightness than the mediocre concrete originally specified when properly placed and finished. For this reason, water should not be added to the mix for any reason. If a stiff mix is an issue – fluidizer and similar admixtures should be considered – to be based on join recommendations of the Project Geotechnical and Structural engineering consultants.

The Bureau's studies also showed that both early and overall strength is greatly improved and issues with cracking, crazing, and surface abrasion resistance are also improved where properly placed and finished concrete is allowed to wet or moist cure for at least 5 to 7 days. Crack control joints should be performed at the proper time and using proper methods / materials. These recommendations are considered paramount to long-term performance. Structural Review

The above recommended concrete pavement recommendations are a minimum. The structural design (e.g., concrete mix design, reinforcing, longitudinal and contraction joints, load transfer devices, etc.) by the project Civil / Structural Engineer, where more restrictive, shall govern.

Utility Trench Backfill

- Bedding material should consist of sandy material exhibiting a Sand Equivalent (S.E.) value of 30 or greater and should comply with the requirements of the controlling governing jurisdiction.
- The site soils are considered suitable for trench backfill, provided they are free of organic material and rocks over 4 inches in maximum dimension.
- To reduce potential water migration into building sub-grade through the granular bedding / shading layer and trench backfill, utility trenches should be backfilled with the onsite finer grained materials or sand-cement slurry for minimum 3 feet length at their entry points.
- Backfill of all exterior and interior trenches should be placed in thin lifts not exceeding 4 inches and mechanically compacted to achieve a relative compaction of not less than 90% based on ASTM: D1557. Care should be taken not to damage utility lines.
- Utility trenches should not be located within the influence of footings. This is defined as a zone located below the footing and a line sloping at an inclination of 1:1 (horizontal to vertical) outward from the outside edge of footings. If utility lines are located within the zone of footings, the backfill should be compacted to a minimum 95 percent relative compaction or slurry backfilled (minimum 1-1/2 sack cement - sand mix).
- Trenches greater than 4 feet in depth should be shored or sloped back as required by the local regulatory agency, the State of California Division of Industrial Safety Construction Safety Orders, and Federal OSHA requirements.

As described in the Groundwater section of this report, the site includes shallow groundwater conditions. Where trench excavations come close to or intersect the water table, the groundwater may react adversely. These effects may include bottom quickening / heaving, sidewall raveling, sloughing and calving, and decrease in sidewall stability. Where trenching will be below 5-feet,

special means and methods may be required to address and stabilize the situation. This office should be consulted for specific recommendations and support where this may occur.

Site Drainage

Of all the post-construction maintenance items – attention to site drainage is the most important. Nuisance water is the cause of most potential problems.

The Client, Landscape Architect, and Property Manager should be aware of the potential problems that may develop when drainage is altered through construction of retaining walls, paved walkways, and patios. Conditions which will lead to ground saturation must be avoided.

- All roof and surface drainage should be directed away from structures and their appurtenances and slopes to approved drainage facilities. Ponding of water should be avoided. Per the 2019 CBC, a minimum gradient of 5 percent away from structures should be maintained for graded soil areas to a distance of 10 feet or to approved drainage swales.
- The recommended drainage patterns should be established at the time of fine grading and maintained throughout the life of the structure or, if altered, should be replaced with properly designed area drain system.
- Irrigation activities at the site should be monitored and controlled to prevent over watering. Planter and lawn areas adjacent to structures should be avoided. If utilized, these should include measures to contain irrigation water and prevent moisture migration into the walls and under foundations and slabs-on-grade.
- Plants with aggressive roots should be avoided. Trees should be planted in designated tree wells that limit lateral and promote deeper root movement.
- Planters should be well drained. Root barriers should be considered to limit invasive roots from getting out and under the surrounding pavement. The incorporation of “Bio Barrier” fabric in root barriers is specifically recommended. Bio Barrier includes a hormone chemical that keeps roots away without harming the plants.
- The selection of plant palettes should be based on that which is suitable for the area and be drought tolerant. For any planned bio-swales or bio-basins, specific plant palettes may be required to address particular conditions. Our office should be consulted to provide such guidance as may be required.
- It is imperative that all new construction maintain positive drainage to suitable discharge facilities. Adequate area drainage systems should be installed in planter areas and within flatwork areas, as required.

Landscape, Irrigation, and Maintenance

General guidelines for landscape, irrigation and maintenance are shown below:

- Landscape planting should consist of appropriate drought resistant vegetation as

recommended by the Landscape Architect. Landscaping of slopes should be completed as soon as possible and properly maintained;

- The property owner is responsible for proper irrigation and for maintenance and repair of installed irrigation systems. Leaks should be repaired immediately. Sprinklers should be adjusted to provide maximum coverage with a minimum of water usage and overlap. Over-watering with consequent excessive runoff and ground saturation must be avoided;
- If automatic sprinkler systems are installed, their use should be adjusted to account for natural rainfall conditions;
- All interceptor ditches, drainage terraces, down-drains, and any other drainage devices that have been installed must be maintained and cleaned;
- If rodent activity is present, the property owner should undertake a program for the elimination of burrowing animals. This should be an ongoing program in order to promote stability; and
- Water should be directed away from constructed slopes faces. This may require the construction of berms or ditches along the top of slopes, if such devices are not in place.

Plan Review, Observations and Testing

During the design and precise grading phases, the final Precise Grading and Foundation Plans, including the design details of planned structures (e.g., location, configuration, design loads, etc.) should be provided to the Project Geotechnical Engineer to verify the applicability of the recommendations provided above and to develop additional and/or revised recommendations, as appropriate.

Precise grading, including foundation and on-site construction should be performed under the observation, documentation, and testing by the Project Geotechnical Consultant. To document actual conditions encountered, work performed, and any in-field modifications / adjustments, an As-Graded report should be prepared upon the completion of work.

CLOSURE

Our evaluation and preparation of this report are based on our experience and our knowledge of the site and were obtained in accordance with currently accepted professional engineering principles and practice in the field of geologic and geotechnical engineering and reflect our best professional judgment. We make no other warranty, either express or implied. This report is subject to supplementation and revision as new information becomes available and the designs are refined. This report is also subject to the review of the controlling jurisdiction and any comments / responses become a part hereto and the project specifications.

The recommendations provided by this firm are made on the assumption that we will be retained to perform the geotechnical onsite observation, testing and support associated with the proposed work. If another geotechnical firm is used, these and any other applicable recommendations developed by this firm are considered void. G3SoilWorks is not responsible for any implementation of recommendations or grading / construction that it did not have an adequate opportunity to observe, test, comment on, and document. Similarly, should unanticipated conditions be encountered or alterations to the current design be made, this office should be given the opportunity and retainage to evaluate and provide revisions / updates as warranted.

We appreciate the opportunity of being of service to you on this project. Should you have any questions or need additional information, please contact the undersigned.

Sincerely,

G3SoilWorks, Inc.

By: _____
Daniel J. Morikawa, P.E.
Director of Engineering

REGISTERED PROFESSIONAL ENGINEER DANIEL J. MORIKAWA GE 2726 GEOTECHNICAL STATE OF CALIFORNIA

By: _____
Steve E. Strickler, P.E., G.E.
CEO / Principal Geotechnical Engineer

REGISTERED PROFESSIONAL ENGINEER STEVEN E. STRICKLER GE 2265 GEOTECHNICAL STATE OF CALIFORNIA

By: _____
Erik C. Haaker, P.G., C.E.G.
Senior Engineering Geologist

CERTIFIED ENGINEERING GEOLOGIST ERIK C. HAAKER No. 2708 EXP. 2/29/23 STATE OF CALIFORNIA

Attachments: List of Selected References

Figure 1 – Site Location Map
Figure 2 – Boring / CPT Location & Groundwater Map
Figure 3 – Geologic Map
Figure 4 – Fault Activity Map

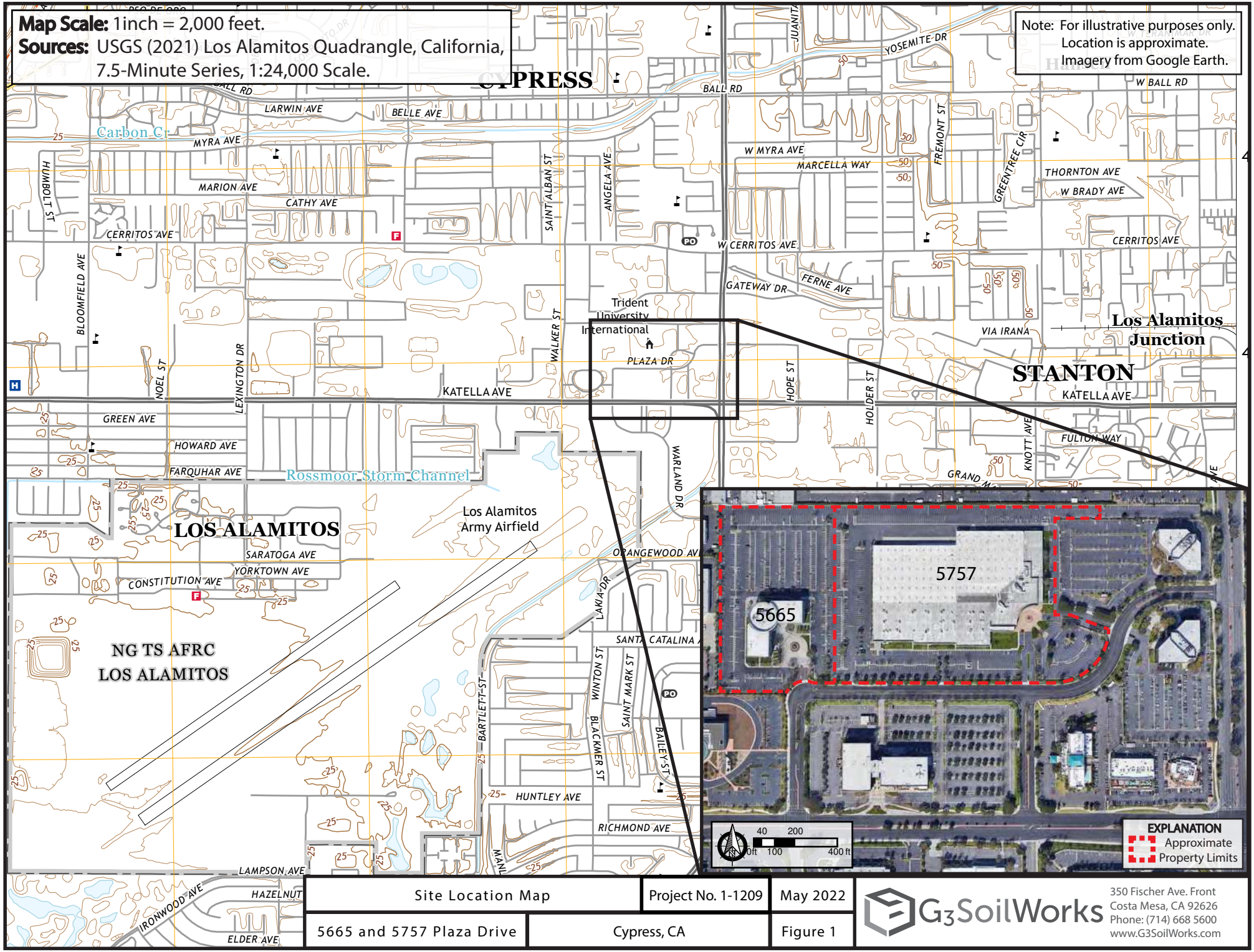
Appendix A – Geotechnical Boring Logs
Appendix B – CPT Results
Appendix C – Laboratory Test Procedures and Results
Appendix D – Reference No. 2 Excerpts
Appendix E – Reference No. 3 Excerpts
Appendix F – Well Permitting Documents
Appendix G – As-Built Well Diagrams
Appendix H – ASCE 7-16 Seismic Design Criteria
Appendix I – Liquefaction Analyses

LIST OF SELECTED REFERENCES

1. PBLA Engineering, Inc., Concept Grading Plan – Buildings 1 & 2, Goodman Commerce Center – Cypress, WO 128-7, Sheet 1 of 2, Dated August 3, 2021.
2. Southern California Geotechnical, Geotechnical Feasibility Study, Proposed Commercial / Industrial Development, 5665 and 5757 Plaza Drive, Cypress, California for Goodman, dated June 7, 2021, Project No. 21G150-1R.
3. Southern California Geotechnical, Geotechnical Investigation, Proposed Commercial / Industrial Development, 5757 Plaza Drive, Cypress, California for Goodman, dated September 29, 2021, Project No. 21G201-2.
4. Barrows, A.G., 1970, A Review of the Geology and Earthquake History of the Newport-Inglewood Structural Zone, Southern California, California Division of Mines and Geology Special Report 114.
5. Trifunac, M.D., 2003, Nonlinear soil response as a natural passive isolation mechanism> Paper II. The 1933, Long Beach, California earthquake. Soil Dynamics and Earthquake Engineering 23, 549-562.
6. ARCADIS, “Second Quarter 2014 – Annual Status Report Submittal”, 5100 Katella Avenue, Los Alamitos, Orange County, California, dated August 12, 2014.
7. California Division of Mines and Geology, Seismic Hazard Zone Report for the Los Alamitos 7.5-minute Quadrangle, Los Angeles County and Orange County, California”, Seismic Hazard Zone Report 019, 1998.
8. California Emergency Management Agency, et al., Tsunami inundation Map for Emergency Planning, Los Alamitos Quadrangle, State of California, Orange County, dated March 15, 2009.

Map Scale: 1inch = 2,000 feet.
Sources: USGS (2021) Los Alamitos Quadrangle, California, 7.5-Minute Series, 1:24,000 Scale.

Note: For illustrative purposes only.
Location is approximate.
Imagery from Google Earth.



Site Location Map		Project No. 1-1209	May 2022
5665 and 5757 Plaza Drive	Cypress, CA		Figure 1

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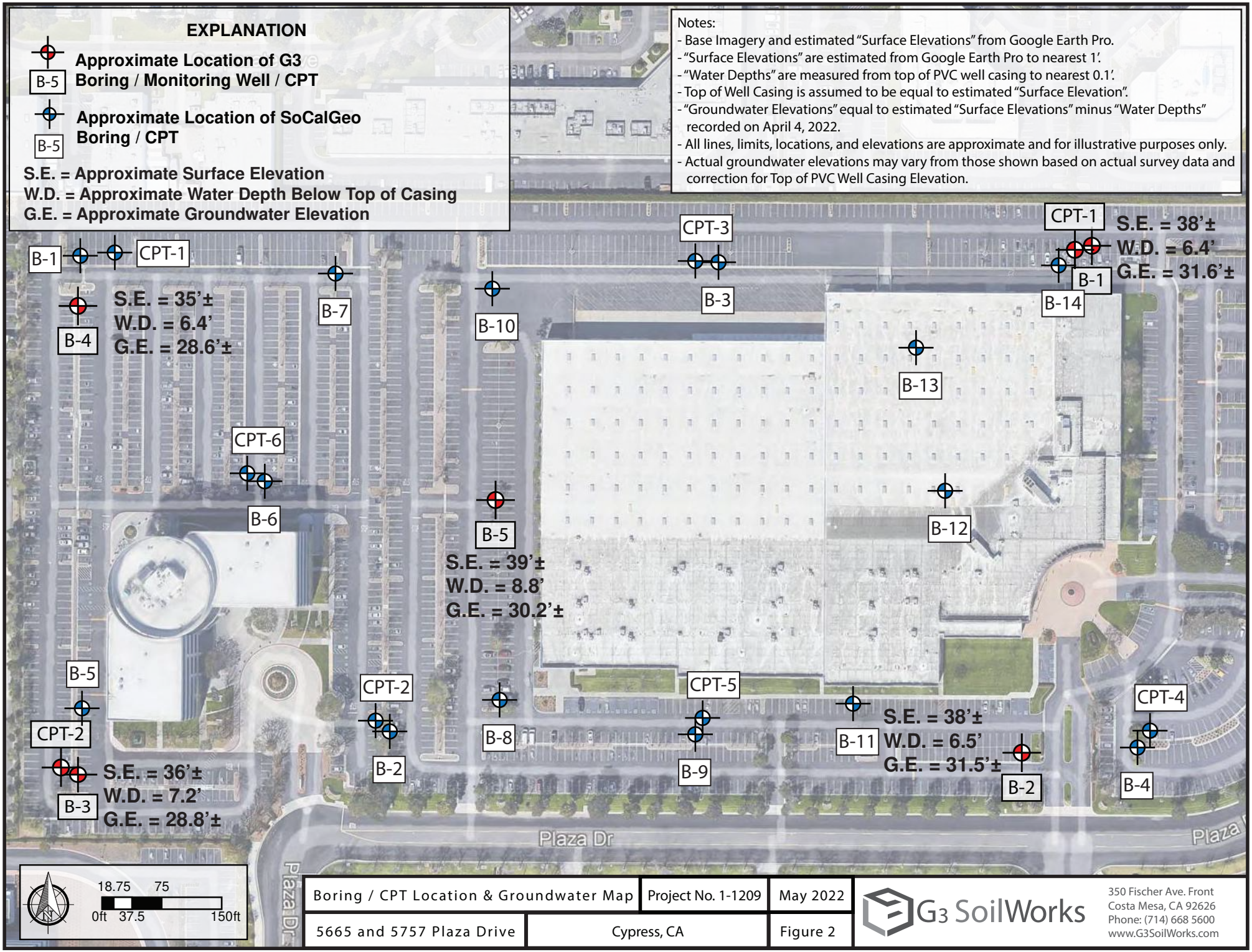
EXPLANATION
Approximate Location of G3 Boring / Monitoring Well / CPT
B-5
Approximate Location of SoCalGeo Boring / CPT
B-5
S.E. = Approximate Surface Elevation
W.D. = Approximate Water Depth Below Top of Casing
G.E. = Approximate Groundwater Elevation
Notes:
- Base Imagery and estimated "Surface Elevations" from Google Earth Pro.
- "Surface Elevations" are estimated from Google Earth Pro to nearest 1'.
- "Water Depths" are measured from top of PVC well casing to nearest 0.1'.
- Top of Well Casing is assumed to be equal to estimated "Surface Elevation".
- "Groundwater Elevations" equal to estimated "Surface Elevations" minus "Water Depths" recorded on April 4, 2022.
- All lines, limits, locations, and elevations are approximate and for illustrative purposes only.
- Actual groundwater elevations may vary from those shown based on actual survey data and correction for Top of PVC Well Casing Elevation.
B-1
CPT-1
S.E. = 35'±
W.D. = 6.4'
G.E. = 28.6'±
B-4
B-7
B-10
CPT-3
B-3
CPT-1
S.E. = 38'±
W.D. = 6.4'
G.E. = 31.6'±
B-1
B-14
B-13
CPT-6
B-6
B-5
S.E. = 39'±
W.D. = 8.8'
G.E. = 30.2'±
B-12
B-5
CPT-2
S.E. = 36'±
W.D. = 7.2'
G.E. = 28.8'±
B-3
CPT-2
B-2
B-8
CPT-5
B-9
B-11
S.E. = 38'±
W.D. = 6.5'
G.E. = 31.5'±
B-2
CPT-4
B-4
Plaza Dr
Plaza Dr
Plaza
18.75
75
0ft
37.5
150ft
Boring / CPT Location & Groundwater Map
Project No. 1-1209
May 2022
5665 and 5757 Plaza Drive
Cypress, CA
Figure 2
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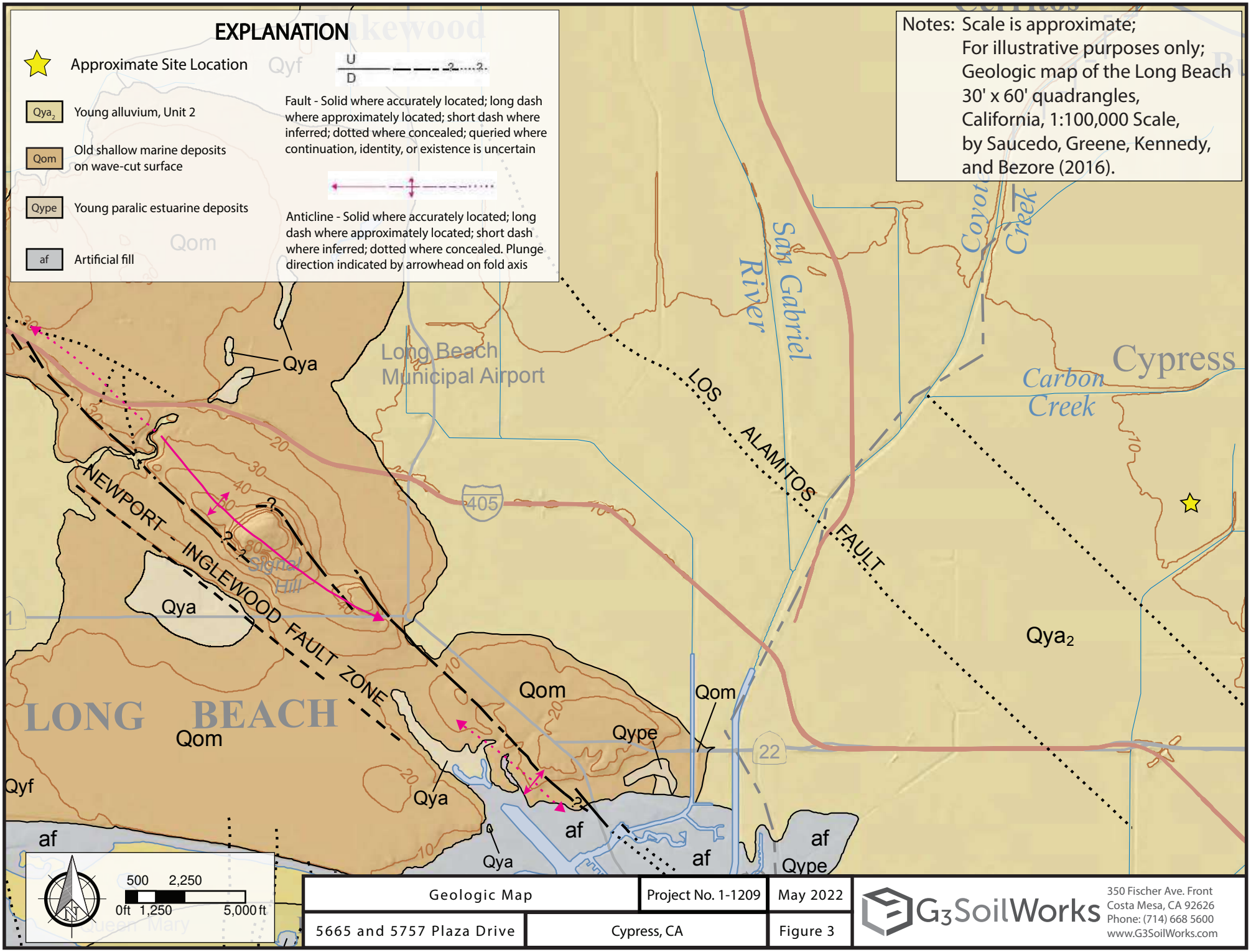
EXPLANATION
Approximate Site Location
Qya2 Young alluvium, Unit 2
Qom Old shallow marine deposits on wave-cut surface
Qype Young paralic estuarine deposits
af Artificial fill
U
D
Fault - Solid where accurately located; long dash where approximately located; short dash where inferred; dotted where concealed; queried where continuation, identity, or existence is uncertain
Anticline - Solid where accurately located; long dash where approximately located; short dash where inferred; dotted where concealed. Plunge direction indicated by arrowhead on fold axis
Notes: Scale is approximate;
For illustrative purposes only;
Geologic map of the Long Beach 30' x 60' quadrangles, California, 1:100,000 Scale, by Saucedo, Greene, Kennedy, and Bezore (2016).
Long Beach Municipal Airport
San Gabriel River
Coyote Creek
Carbon Creek
Cypress
LOS ALAMITOS FAULT
NEWPORT - INGLEWOOD FAULT ZONE
Signal Hill
LONG BEACH
Qya
Qom
Qyf
Qype
af
405
22
N
500 2,250
0ft 1,250 5,000 ft
Geologic Map
Project No. 1-1209
May 2022
5665 and 5757 Plaza Drive
Cypress, CA
Figure 3
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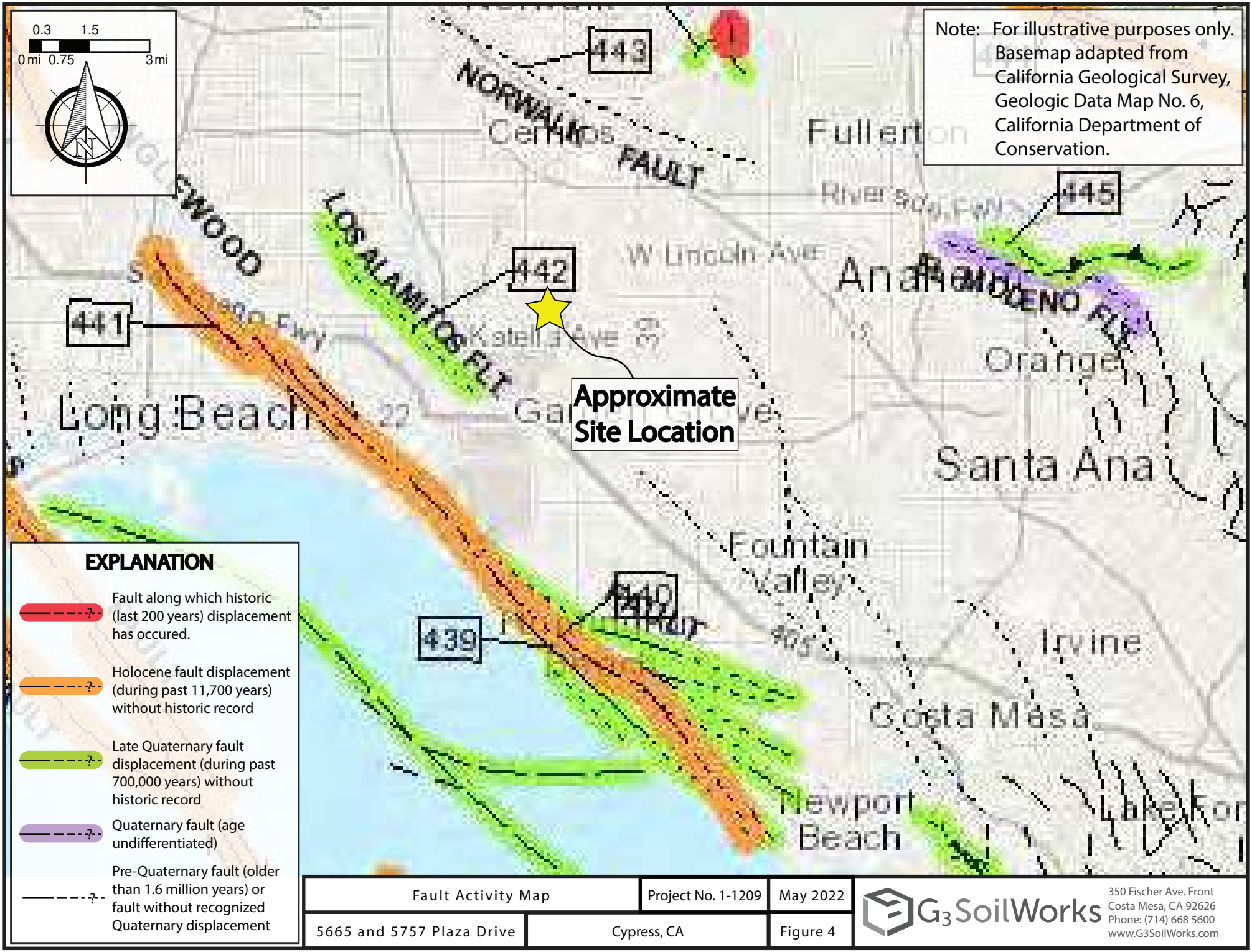

Fault Activity Map		Project No. 1-1209	May 2022
5665 and 5757 Plaza Drive	Cypress, CA		Figure 4

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APPENDIX A

GEOTECHNICAL BORING LOGS

GEOTECHNICAL BORING LOG

PROJECT NO.	1-1209	PROJECT NAME	Goodman		
DATE STARTED	1/4/22	GROUND ELEV.(FT)	38'	BORING DESIG.	B-1
DATE FINISHED	1/4/22	GW DEPTH (FT)	7.0	LOGGED BY	G3
DRILLER	M&R Drilling	DRIVE WT.	140 lb.	NOTE	
TYPE OF DRILL RIG	8" hollow-stem CME-55	DROP	30"		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
				SM/ML	@ 0-3": Asphalt Pavement @3"- 5": Crush Miscellaneous Base (CMB) **Artificial Fill (af)** @ 6": Silty SAND / Sandy SILT, dark gray, moist, medium dense to dense, fine-grained, some mica.			
5		R	27	SM	**Quaternary Alluvium (Qal)** @5': Silty SAND, grayish brown, very moist, medium dense, fine-grained, some mica.	24.7	91.1	
10		R	26	SM	@ 10': Silty SAND, dark gray to grayish brown, moist to very moist, medium dense, fine-grained, some mica.	23.5	103.3	
15		R	16	CL/ML	@ 15': Silty CLAY / Clayey SILT, dark gray, very moist, stiff, low apparent plasticity, calcereous.	30.9	89.0	
20		R	25	SM	@ 20': Silty SAND, light brown, very moist, medium dense, some mica.	23.9	101.3	
25		R	26	SM	@ 25': Silty SAND, grayish brown, wet, medium dense.	24.8		
30		R	16	ML	@ 30': Clayey SILT with sand, grayish brown, moist to very moist, stiff, low apparent plasticity, contains caliche, some mica.	27.6	97.1	
					Notes: Total Depth = 31.5'; Groundwater encountered at 7'; Installed 2" diameter PVC Monitoring Well; Refer to Detail A for As-Built Well Diagram.			

SAMPLE TYPES:
- R RING (DRIVE) SAMPLE
- S SPT (SPLIT SPOON) SAMPLE
- B BULK SAMPLE

Water Seepage
Groundwater
DS - Direct Shear
GS - Grain Size Analysis
EI - Expansion Index
CONS - Consolidation

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PN: 1-1209

REPORT DATE:

GEOTECHNICAL BORING LOG

PROJECT NO.	1-1209	PROJECT NAME	Goodman		
DATE STARTED	1/4/22	GROUND ELEV.(FT)	38'	BORING DESIG.	B-2
DATE FINISHED	1/4/22	GW DEPTH (FT)	8.0	LOGGED BY	G3
DRILLER	M&R Drilling	DRIVE WT.	140 lb.	NOTE	
TYPE OF DRILL RIG	8" hollow-stem CME-55	DROP	30"		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
					@ 0 to 3": Asphalt Pavement @ 3 to 5": Crush Miscellaneous Base (CMB)			
		BULK		SM	**Artificial Fill (af)** @ 5"-5': Sandy SILT, dark grayish brown, moist, very low apparent plasticity, predominantly fine-grained, micaceous.			
5		R	23	SM	**Quaternary Alluvium (Qal)** @ 5': Silty SAND, grayish brown, moist, medium dense, some mica.	23.0	99.4	
10		R	10	ML	@ 10': Silty SAND, dark gray, wet, loose, very fine-grained, micaceous.	27.9	93.4	
15		R	15	CL	@ 15': Silty CLAY with Sand, dark grayish brown, wet, stiff, low apparent plastisity, sparse coarse sand.	36.8	87.1	
20		R	28	ML	@ 20': Sandy SILT with trace clay, olive brown, wet, very stiff, low to very low apparent plasticity, micaceous.	37.7	85.7	
25			20		@ 25': No sample recovered.			
		R	17	ML	@ 27': Clayey SILT with sand, gray, wet, stiff, some mica.	27.2		
30		R	33	ML	@ 30': Clayey SILT with Sand, dark grayish brown, wet, very stiff, low to medium apparent plasticity, calcareous.			
					Notes: Total Depth = 31.5'; Groundwater encountered at 7.5'; Installed 2" diameter PVC Monitoring Well; Refer to Detail B for As-Built Well Diagram.			

SAMPLE TYPES:
- R RING (DRIVE) SAMPLE
- S SPT (SPLIT SPOON) SAMPLE
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Water Seepage
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PN: 1-1209

REPORT DATE:

GEOTECHNICAL BORING LOG

PROJECT NO.	1-1209	PROJECT NAME	Goodman		
DATE STARTED	1/3/22	GROUND ELEV.(FT)	36'	BORING DESIG.	B-3
DATE FINISHED	1/3/22	GW DEPTH (FT)	7.5	LOGGED BY	G3
DRILLER	M&R Drilling	DRIVE WT.	140 lb.	NOTE	
TYPE OF DRILL RIG	8" hollow-stem CME-55	DROP	30"		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
					@ 0 to3": Asphalt Pavement @ 3 to 5": Crushed Miscellenious Base (CMB) **Artificial Fill (af)**			
		B		SM/ML	@2.5': Silty SAND / Sandy SILT, brown, slightly moist to moist, contains some gravel.	11.0		
5		B		SP	**Quaternary Alluvium (Qal)** @5': Poorly-Graded SAND, gray, slightly moist, fine- to medium-grained.	3.3		
		R	6	SM ▼	@ 7.5': Silty SAND, olive gray, wet, very loose to loose, fine-grained.	26.4		
10		R	7	SM	@10': Silty SAND, dark grayish brown, wet, medium dense.	21.4	98.4	
		SPT	4	CL	@ 12.5': Silty CLAY, dark gray, very moist, soft to firm, sparse mica.	26.1		
15		R	7	ML	@15': Sandy SILT w/ Clay, dark grayish brown, moist, firm, low apparent plasticity, sparse mica.	23.3	99.1	
		SPT	2	ML/SM	@17,5': Sandy SILT / Silty SAND with Clay, light olive brown, very moist, very loose, predominantly fine-grained, sparse mica.	26.7		
20		R	15	SM/ML	@ 20': Silty SAND / Sandy SILT, light olive brown, moist, loose to medium dense, fine-grained, sparse mica.	21.2	102.5	
		SPT	6	ML	@ 22.5': Sandy SILT, olive brown, wet, firm, fine-grained, highly micaceous.	30.2		
25		R	9	ML	@ 25': Sandy SILT, dark gray, wet, firm, very low plasticity, highly micaceous.	31.4	91.2	
		SPT	1	ML	@ 27.5': Clayey SILT, dark gray, very moist, very soft, low apparent plasticity, some mica.	26.4		
30		R	9	ML	@30': Clayey SILT, dark gray, moist, firm, low apparent plasticity..	24.7	98.6	
		SPT	5	CL	@32.5': Silty CLAY with sand, grayish brown, wet, soft, low apparent plasticity, trace mica.	37.0		
35		R	24	SP	@35': Poorly-Graded SAND, gray to light gray, wet, medium dense, fine- to medium-grained, some mica.	17.1	105.2	
		SPT	8	SP	@ 37.5': Poorly-Graded SAND, light gray to gray, wet, loose, predominantly fine-grained with some coarse sand.	27.6		

SAMPLE TYPES:
- R RING (DRIVE) SAMPLE
- S SPT (SPLIT SPOON) SAMPLE
- B BULK SAMPLE

▽ Water Seepage
▼ Groundwater
DS - Direct Shear
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EI - Expansion Index
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PN: 1-1209

REPORT DATE:

GEOTECHNICAL BORING LOG

PROJECT NO.	1-1209	PROJECT NAME	Goodman		
DATE STARTED	1/3/22	GROUND ELEV.(FT)	36'	BORING DESIG.	B-3
DATE FINISHED	1/3/22	GW DEPTH (FT)	7.5	LOGGED BY	G3
DRILLER	M&R Drilling	DRIVE WT.	140 lb.	NOTE	
TYPE OF DRILL RIG	8" hollow-stem CME-55	DROP	30"		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
		R	7		@ 40': No sample recovery.			
		SPT	17	SM	@ 42.5': Silty SAND, dark grayish brown, medium dense, micaceous.	24.2		
45		R	25	SM/ML	@ 45': Silty SAND / Sandy SILT, dark gray, wet, medium dense, non-plastic, fine-grained, highly micaceous.	21.5	102.1	
		*SPT	15	ML	@47.5': Sandy SILT with Clay, dark gray, wet, medium dense, low apparent plasticity.	23.0		
50		R	23	ML	@50': Silty SAND, dark gray, wet, medium dense, predominantly fine-grained, micaceous.	23.8	99.4	

Notes:
Total Depth = 51.5';
Groundwater encountered at: 7.5';
Installed 2" diameter PVC Monitoring Well;
Refer to Detail C for As-Built Well Diagram.

SAMPLE TYPES:
R RING (DRIVE) SAMPLE
S SPT (SPLIT SPOON) SAMPLE
B BULK SAMPLE

Water Seepage
Groundwater
DS - Direct Shear
GS - Grain Size Analysis
EI - Expansion Index
CONS - Consolidation

G3SoilWorks
350 Fischer Ave. Front
Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

PN: 1-1209 REPORT DATE:

GEOTECHNICAL BORING LOG

PROJECT NO.	1-1209	PROJECT NAME	Goodman		
DATE STARTED	1/3/22	GROUND ELEV.(FT)	35'	BORING DESIG.	B-4
DATE FINISHED	1/3/22	GW DEPTH (FT)	7.0	LOGGED BY	G3
DRILLER	M&R Drilling	DRIVE WT.	140 lb.	NOTE	
TYPE OF DRILL RIG	8" hollow-stem CME-55	DROP	30"		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
					@ 0 to 3": Asphalt Pavement @ 3" to 5": Crush Miscellaneous Base (CMB) **Artificial Fill (af)**			
		B		SM	@ 2.5': Silty SAND with gravel, dark grayish brown.			
5		R	11	SM	**Quaternary Alluvium (Qal)** @ 5': Silty SAND; grayish brown, moist to very moist, loose, predominantly fine-grained, some mica.	23.5	95.1	
10		R	24	SM	@ 10': Silty SAND, dark gray, very moist to wet, medium dense, micaceous.	29.0	96.9	
15		R	10	ML	@ 15': Clayey SILT with Sand, dark gray, moist to very moist, firm, low apparent plasticity, sparse mica.	27.1	98.6	
20		R	21	SM	@20': Silty SAND, dark grayish brown, moist to very moist, medium dense, predominantly fine-grained.	20.0	108.3	
25		R	17	SM	@25': Silty SAND, dark grayish brown, wet, medium dense, predominantly fine-grained.	24.7	97.4	
30		SPT	30		@ 30': No sample recovered.			

Notes:
Total Depth = 31.5';
Groundwater encountered at 7';
Installed 2" diameter PVC Monitoring Well;
Refer to Detail B for As-Built Well Diagram.

SAMPLE TYPES:
R RING (DRIVE) SAMPLE
S SPT (SPLIT SPOON) SAMPLE
B BULK SAMPLE

Water Seepage
Groundwater
DS - Direct Shear
GS - Grain Size Analysis
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350 Fischer Ave. Front
Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

PN: 1-1209

REPORT DATE:

GEOTECHNICAL BORING LOG

PROJECT NO.	1-1209	PROJECT NAME	Goodman		
DATE STARTED	1/4/22	GROUND ELEV.(FT)	40'	BORING DESIG.	B-5
DATE FINISHED	1/4/22	GW DEPTH (FT)	8.0	LOGGED BY	G3
DRILLER	M&R Drilling	DRIVE WT.	140 lb.	NOTE	
TYPE OF DRILL RIG	8" hollow-stem CME-55	DROP	30"		

DEPTH (feet)	ELEV.	SAMPLE TYPE	BLOWS/FT	GROUP SYMBOL	GEOTECHNICAL DESCRIPTION	MOISTURE CONT. (%)	DRY (pcf) DENSITY	OTHER TESTS
					@ 0 to 3": Asphalt Pavement @ 3" to 5": Crushed Miscellaneous Base (CMB)			
		BULK		SM	**Artificial Fill (af)** @ 0.5-5': Sandy SILT, dark grayish brown, moist, predominantly fine-grained.			
5		R	36	ML	**Quaternary Alluvium (Qal)** @ 5': Silty SAND / Sandy SILT w/ Clay, light brown, moist, medium dense / very stiff, apprently very low plasticity / non-plastic, predominantly fine-grained, micaceous.	14.3	102.5	
10		R	44	SM	@ 10': Silty SAND, light grayish brown, moist, medium dense, micaceous.	20.6	104.6	
15		R	16	CL	@15': Silty CLAY with Sand, dark brown, moist to very moist, stiff, some mica, calcareous.	30.5	96.4	
20		R	23	SM	@20': Silty SAND, grayish brown, wet, medium dense, some mica.	20.2	104.1	
25		R	35	ML	@25': Sandy SILT w/ Clay, dark gray, wet, very stiff, low apparent plasticity, micaceous.	30.4	96.6	
30		R	30	CL	@30': Silty CLAY, dark gray, moist, very stiff, low apparent plasticity.	28.9	97.4	
					Notes: Total Depth = 31.5'; Groundwater encountered at 8'; Installed 2" diameter PVC Monitoring Well; Refer to Detail A for As-Built Well Diagram.			

SAMPLE TYPES:
- R RING (DRIVE) SAMPLE
- S SPT (SPLIT SPOON) SAMPLE
- B BULK SAMPLE

Water Seepage
Groundwater
DS - Direct Shear
GS - Grain Size Analysis
EI - Expansion Index
CONS - Consolidation

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Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

PN: 1-1209

REPORT DATE:

APPENDIX B

CPT RESULTS

SUMMARY

OF

CONE PENETRATION TEST DATA

Project:

5665 & 5757 Plaza Drive
Cypress, CA
December 13, 2021

Prepared for:

Ms. Dana Mariscal
G3SoilWorks, Inc.
350 Fischer Avenue, Front Unit
Costa Mesa, CA 92626
Office (714) 668-5600 / Fax (714) 754-0198

Prepared by:

KEHOE TESTING & ENGINEERING
5415 Industrial Drive
Huntington Beach, CA 92649-1518
Office (714) 901-7270 / Fax (714) 901-7289
www.kehoetesting.com

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1. **INTRODUCTION**
2. **SUMMARY OF FIELD WORK**
3. **FIELD EQUIPMENT & PROCEDURES**
4. **CONE PENETRATION TEST DATA & INTERPRETATION**

APPENDIX

- CPT Plots
- CPT Classification/Soil Behavior Chart
- CPT Data Files (sent via email)

SUMMARY
OF
CONE PENETRATION TEST DATA

1. INTRODUCTION

This report presents the results of a Cone Penetration Test (CPT) program carried out for the project located at 5665 & 5757 Plaza Drive in Cypress, California. The work was performed by Kehoe Testing & Engineering (KTE) on December 13, 2021. The scope of work was performed as directed by G3SoilWorks, Inc. personnel.

2. SUMMARY OF FIELD WORK

The fieldwork consisted of performing CPT soundings at two locations to determine the soil lithology. A summary is provided in **TABLE 2.1**.

LOCATION	DEPTH OF CPT (ft)	COMMENTS/NOTES:
CPT-1	50	
CPT-2	50	

TABLE 2.1 - Summary of CPT Soundings

3. FIELD EQUIPMENT & PROCEDURES

The CPT soundings were carried out by **KTE** using an integrated electronic cone system manufactured by Vertek. The CPT soundings were performed in accordance with ASTM standards (D5778). The cone penetrometers were pushed using a 30-ton CPT rig. The cone used during the program was a 15 cm^2 cone with a cone net area ratio of 0.83. The following parameters were recorded at approximately 2.5 cm depth intervals:

- Cone Resistance (qc)
- Sleeve Friction (fs)
- Dynamic Pore Pressure (u)
- Inclination
- Penetration Speed

The above parameters were recorded and viewed in real time using a laptop computer. Data is stored at the KTE office for up to 2 years for future analysis and reference. A complete set of baseline readings was taken prior to each sounding to determine temperature shifts and any zero load offsets. Monitoring base line readings ensures that the cone electronics are operating properly.

4. CONE PENETRATION TEST DATA & INTERPRETATION

The Cone Penetration Test data is presented in graphical form in the attached Appendix. These plots were generated using the CPeT-IT program. Penetration depths are referenced to ground surface. The soil behavior type on the CPT plots is derived from the attached CPT SBT plot (Robertson, "Interpretation of Cone Penetration Test…", 2009) and presents major soil lithologic changes. The stratigraphic interpretation is based on relationships between cone resistance (qc), sleeve friction (fs), and penetration pore pressure (u). The friction ratio (Rf), which is sleeve friction divided by cone resistance, is a calculated parameter that is used along with cone resistance to infer soil behavior type. Generally, cohesive soils (clays) have high friction ratios, low cone resistance and generate excess pore water pressures. Cohesionless soils (sands) have lower friction ratios, high cone bearing and generate little (or negative) excess pore water pressures.

The CPT data files have also been provided. These files can be imported in CPeT-IT (software by GeoLogismiki) and other programs to calculate various geotechnical parameters.

It should be noted that it is not always possible to clearly identify a soil type based on qc, fs and u. In these situations, experience, judgement and an assessment of the pore pressure data should be used to infer the soil behavior type.

If you have any questions regarding this information, please do not hesitate to call our office at (714) 901-7270.

Sincerely,

KEHOE TESTING & ENGINEERING

Steven P. Kehoe
President

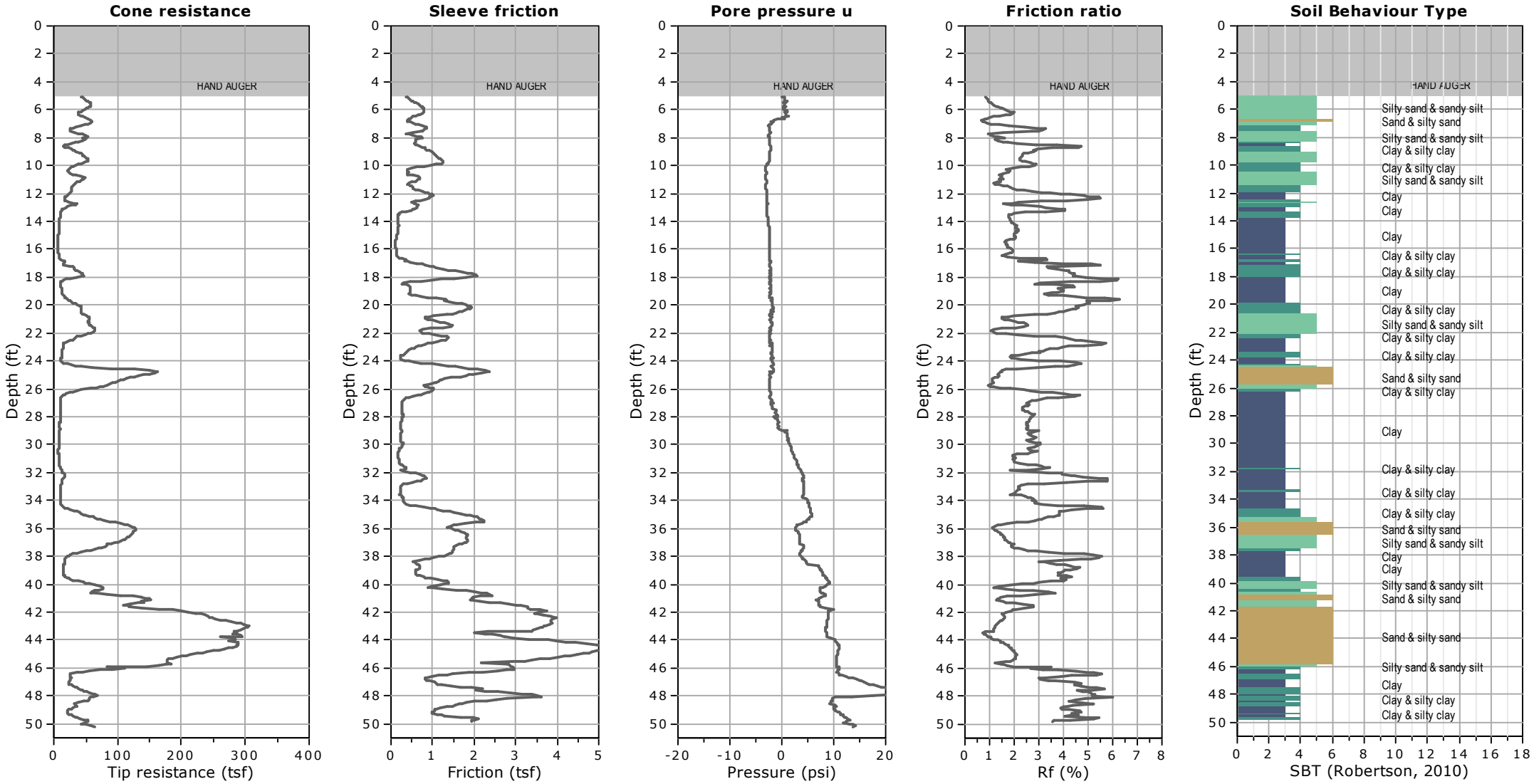
12/15/21-kk-3657

APPENDIX

Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: G3SoilWorks
Location: 5665 & 5757 Plaza Dr, Cypress, CA

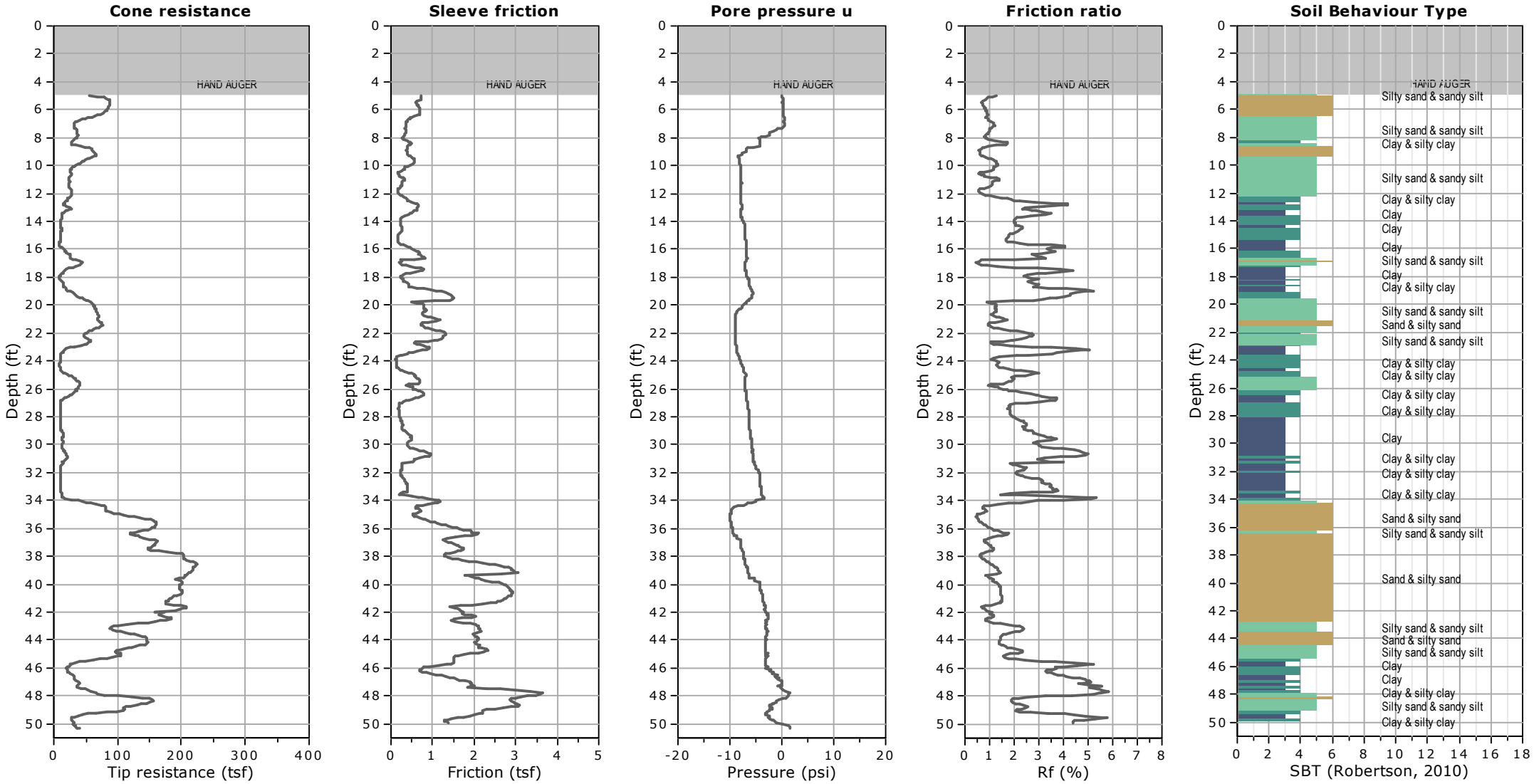
CPT-1
Total depth: 50.20 ft, Date: 12/13/2021



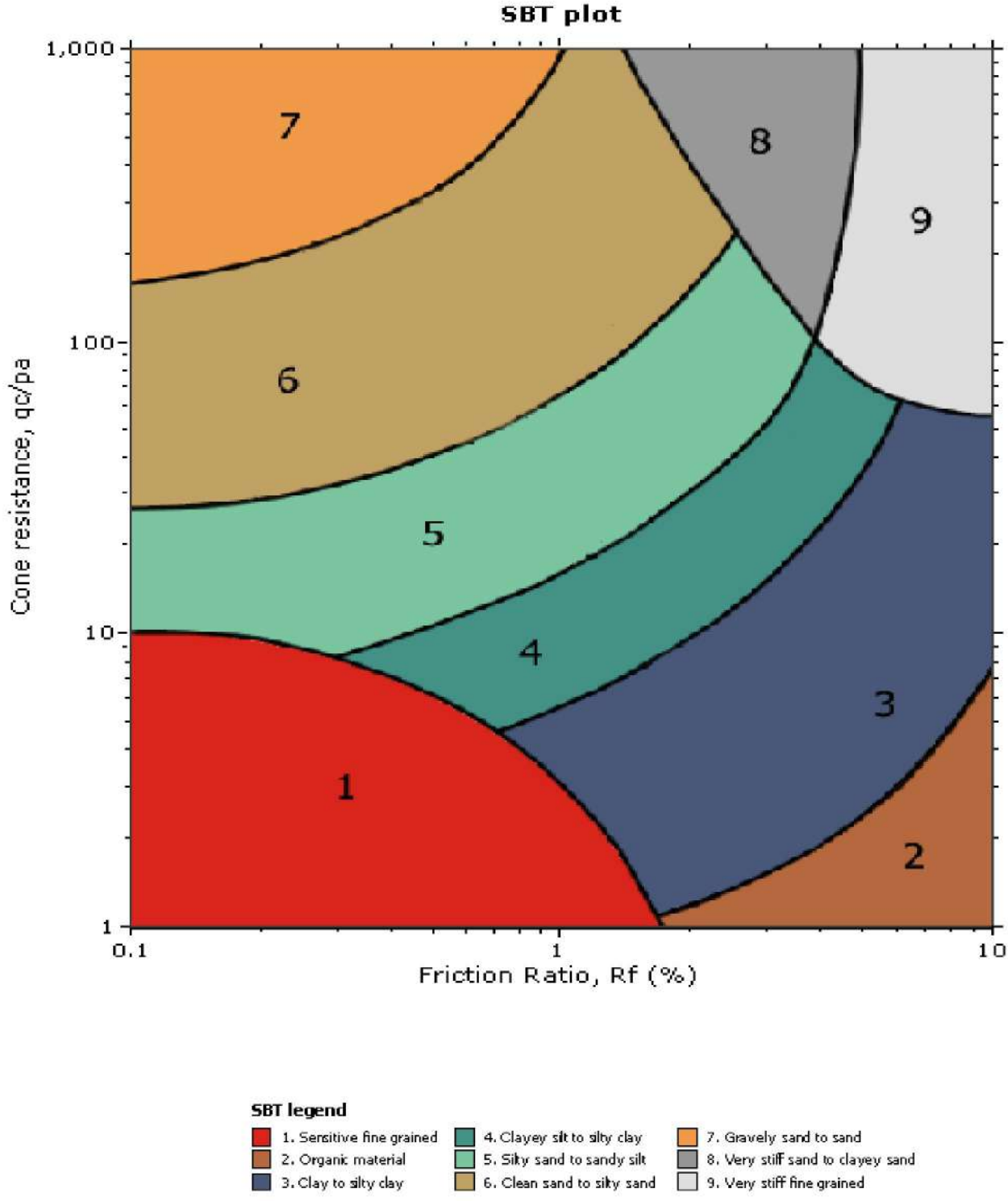
Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: G3SoilWorks
Location: 5665 & 5757 Plaza Dr, Cypress, CA

CPT-2
Total depth: 50.34 ft, Date: 12/13/2021



Kehoe Testing and Engineering
714-901-7270
rich@kehoetesting.com
www.kehoetesting.com



APPENDIX C

LABORATORY TEST PROCEDURES AND RESULTS

LABORATORY TEST PROCEDURES AND RESULTS

The samples obtained during the field investigation were transported to the laboratory for testing and analysis. The results of tests performed on selected samples and the test procedures are summarized below.

Dry Density and Moisture Content

Field dry density and moisture contents of undisturbed soils samples retained in 2 3/8–inch inside diameter by one-inch height rings were determined, and moisture test results were obtained for the small bulk samples. Dry density and moisture content testing were performed in accordance with ASTM D2937 and ASTM D2216, respectively. The test results are posted on the Geotechnical Boring Logs in Appendix A.

Maximum Dry Density and Optimum Moisture Content

Maximum dry density and optimum moisture content test was performed on the submitted bulk soil samples in accordance with ASTM: D 1557. The results are shown below:

Sample Identification	Maximum Dry Density (pcf)	Optimum Moisture Content (%)
B-2 @ 0-5’	107.0	11.5
B-5 @ 0-5’	118.0	13.0

Expansion Index

Representative soil samples were tested for expansion potential following the ASTM D4829 Test Procedure. Test results are presented below.

Sample Identification	Expansion Index	Expansion Potential (UBC 18-1-B)
B-2 @ 0-5’	0	Very Low
B-5 @ 0-5’	14	Very Low

Sulfate Content

Selected soil samples were tested for soluble sulfate content in accordance with the Hach method. The test results are shown below.

Sample Identification	Water Soluble Sulfate in Soil (ppm)	Sulfate Exposure (ACI 318-08, Table 4.2.1)
B-2 @ 0-5’	120	S0
B-5 @ 0-5’	300	S1

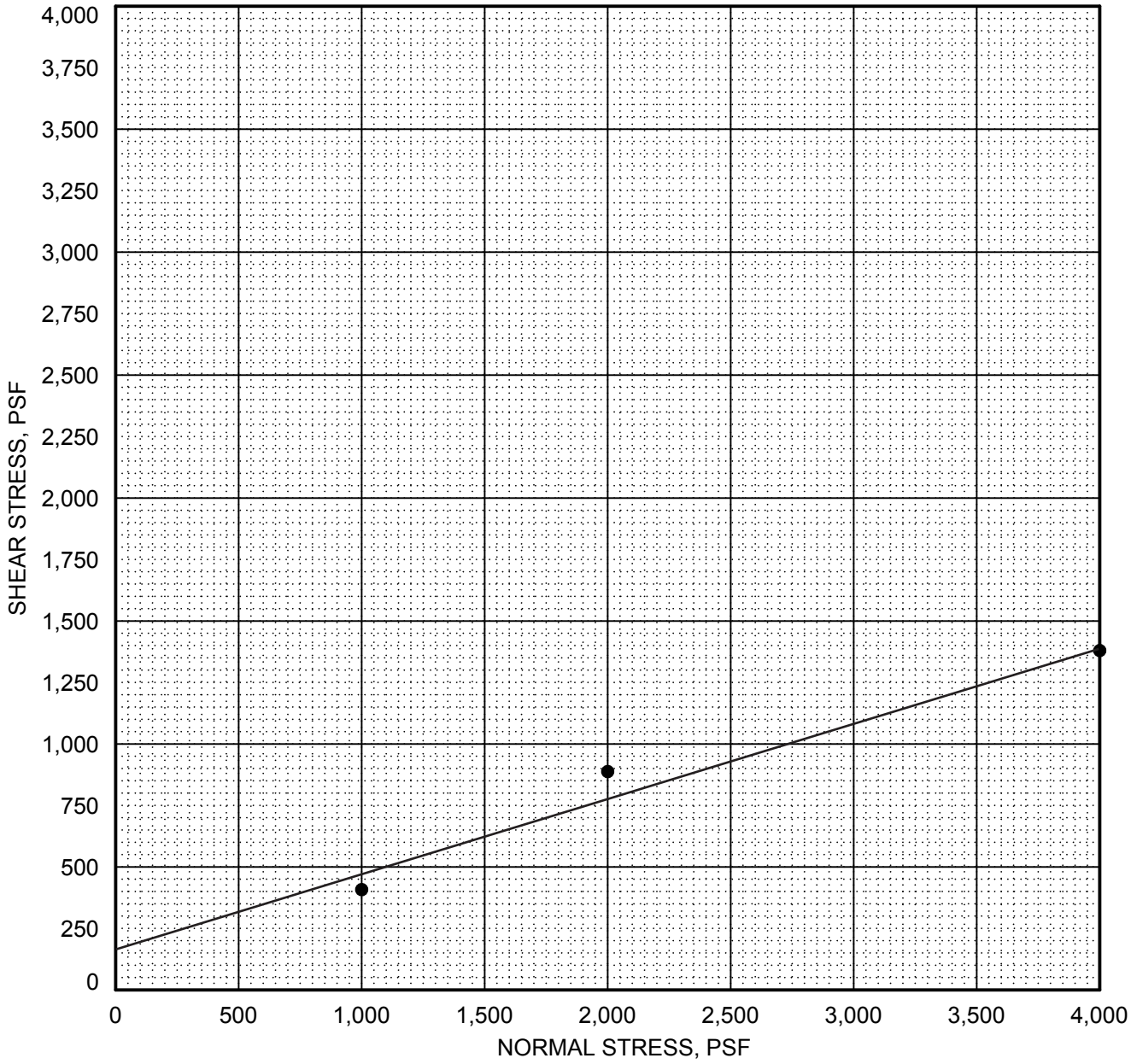
Direct Shear

Direct shear tests were performed on representative, relatively undisturbed soil samples with a direct shear machine of the strain-controlled type in which the rate of strain is 0.01 inches per minute. The soil specimens were soaked in a confined state prior to shearing and was sheared under varied normal loads ranging from 1.0 ksf to 4.0 ksf. The test results are plotted on Figures S-1 through S-7.

Consolidation

Consolidation tests was performed on sample identified as B-1 @ 15 feet, B-3 @ 15 feet, B-3 @ 30 feet, B-4 @ 10 feet, and B-4 @ 20 feet. The test specimen was initially loaded to 0.2 tons per square foot and soaked during the test. Progressive loading was then applied to a maximum of 3.2 tons per square foot. Loading was then reduced to determine rebound characteristics. The consolidation test is presented on Figure C-1 through C-5.

DIRECT SHEAR TEST
Undisturbed



5665 and 5757 Plaza Drive, Cypress	COHESION	162	psf.
	FRICTION ANGLE	17.0	degrees

symbol	boring	depth (ft.)	symbol	boring	depth (ft.)
●	B-1	15.0			

FIGURE S-1
DIRECT SHEAR TEST

PN: 1-1209 REPORT DATE: 05/04/22

G3SoilWorks
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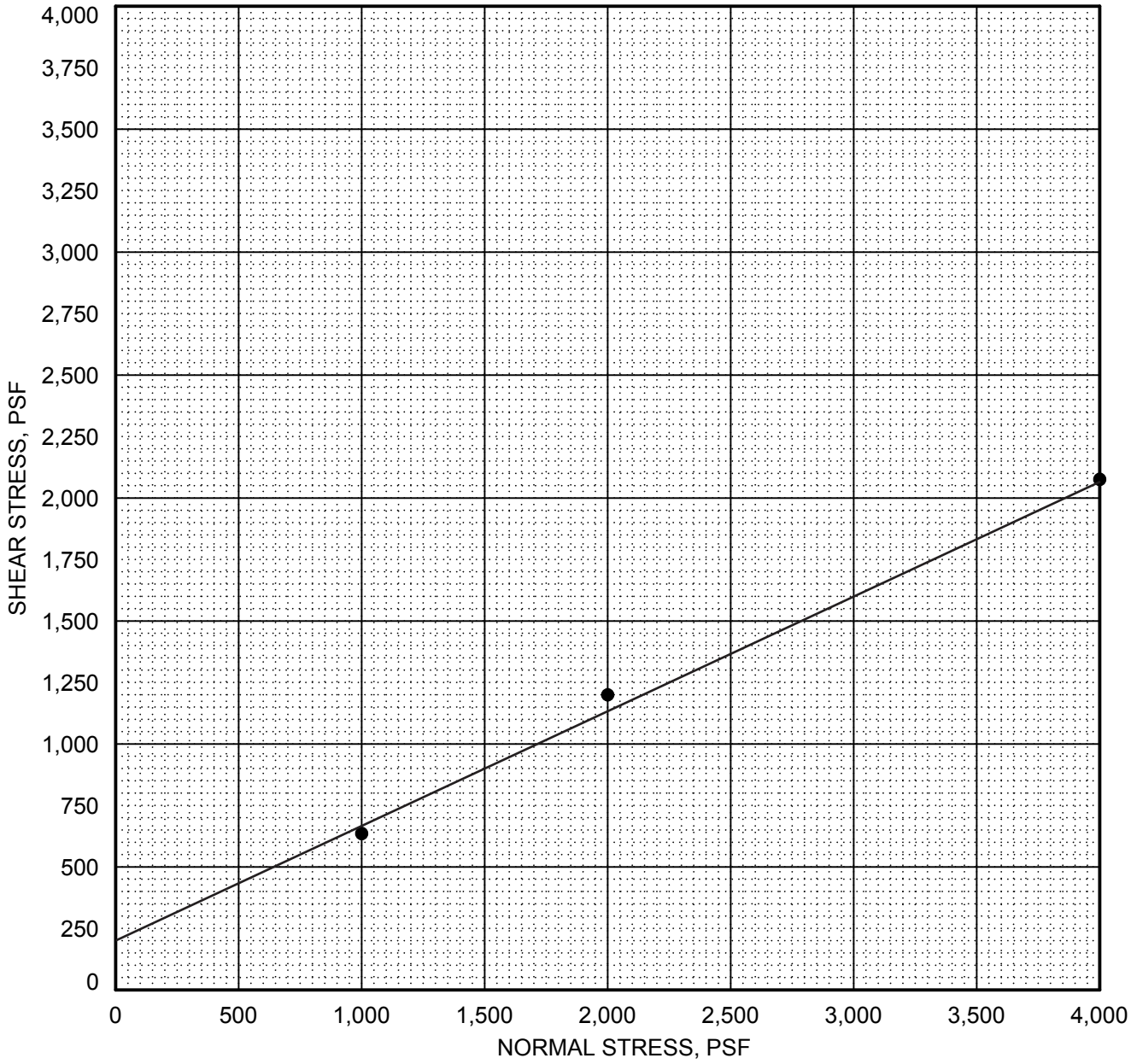
Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

DIRECT SHEAR TEST
Undisturbed



5665 and 5757 Plaza Drive, Cypress	COHESION	198	psf.
	FRICTION ANGLE	25.0	degrees

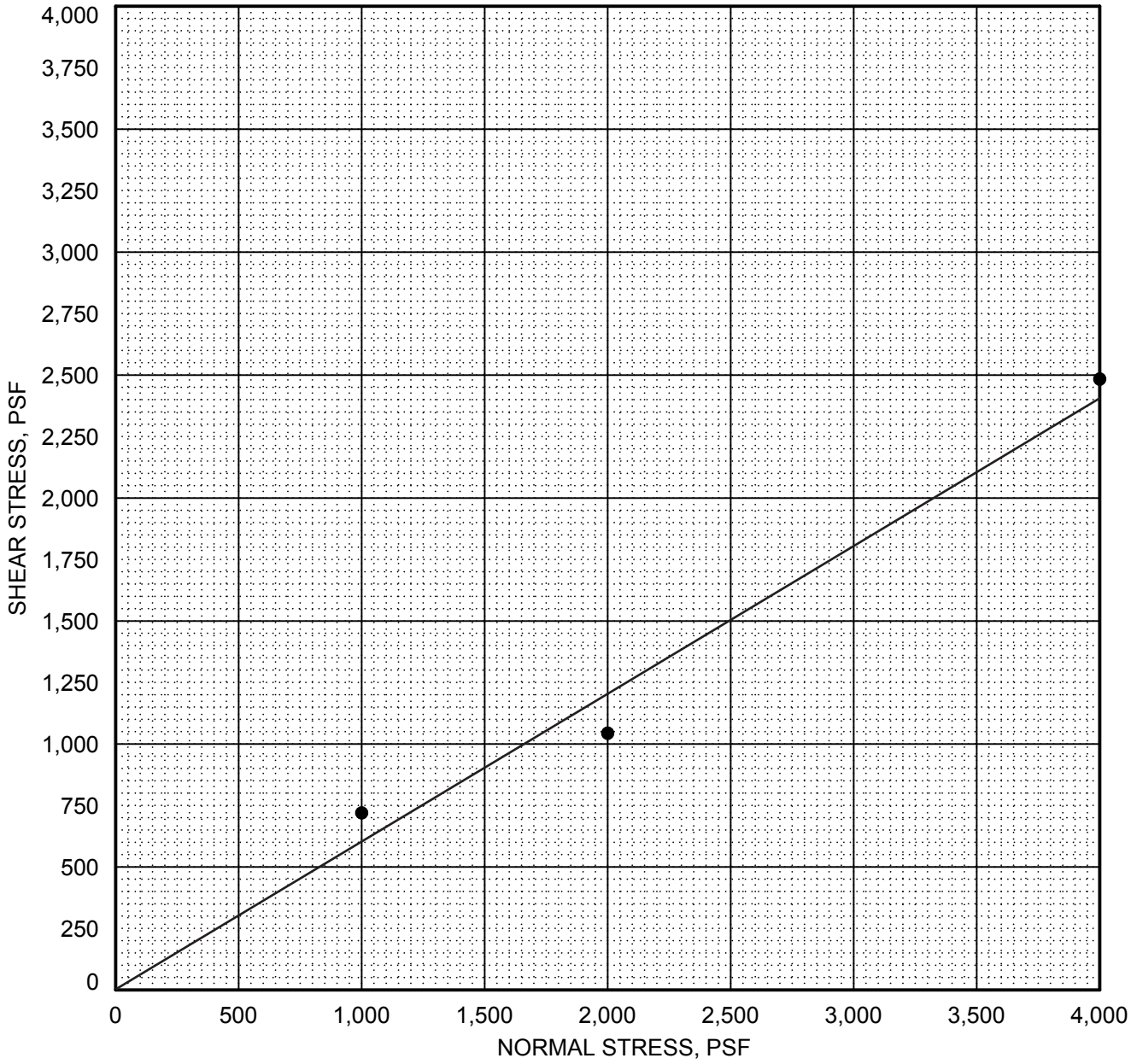
symbol	boring	depth (ft.)	symbol	boring	depth (ft.)
●	B-2	20.0			

FIGURE S-2
DIRECT SHEAR TEST

PN: 1-1209 REPORT DATE: 05/04/22

G3SoilWorks
350 Fischer Ave. Front
Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

DIRECT SHEAR TEST
Undisturbed



5665 and 5757 Plaza Drive, Cypress	COHESION	0	psf.
	FRICTION ANGLE	31.0	degrees

symbol	boring	depth (ft.)	symbol	boring	depth (ft.)
●	B-3	15.0			

FIGURE S-3
DIRECT SHEAR TEST

PN: 1-1209 REPORT DATE: 05/04/22

G3SoilWorks
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Costa Mesa, CA 92626
Phone: (714) 668 5600
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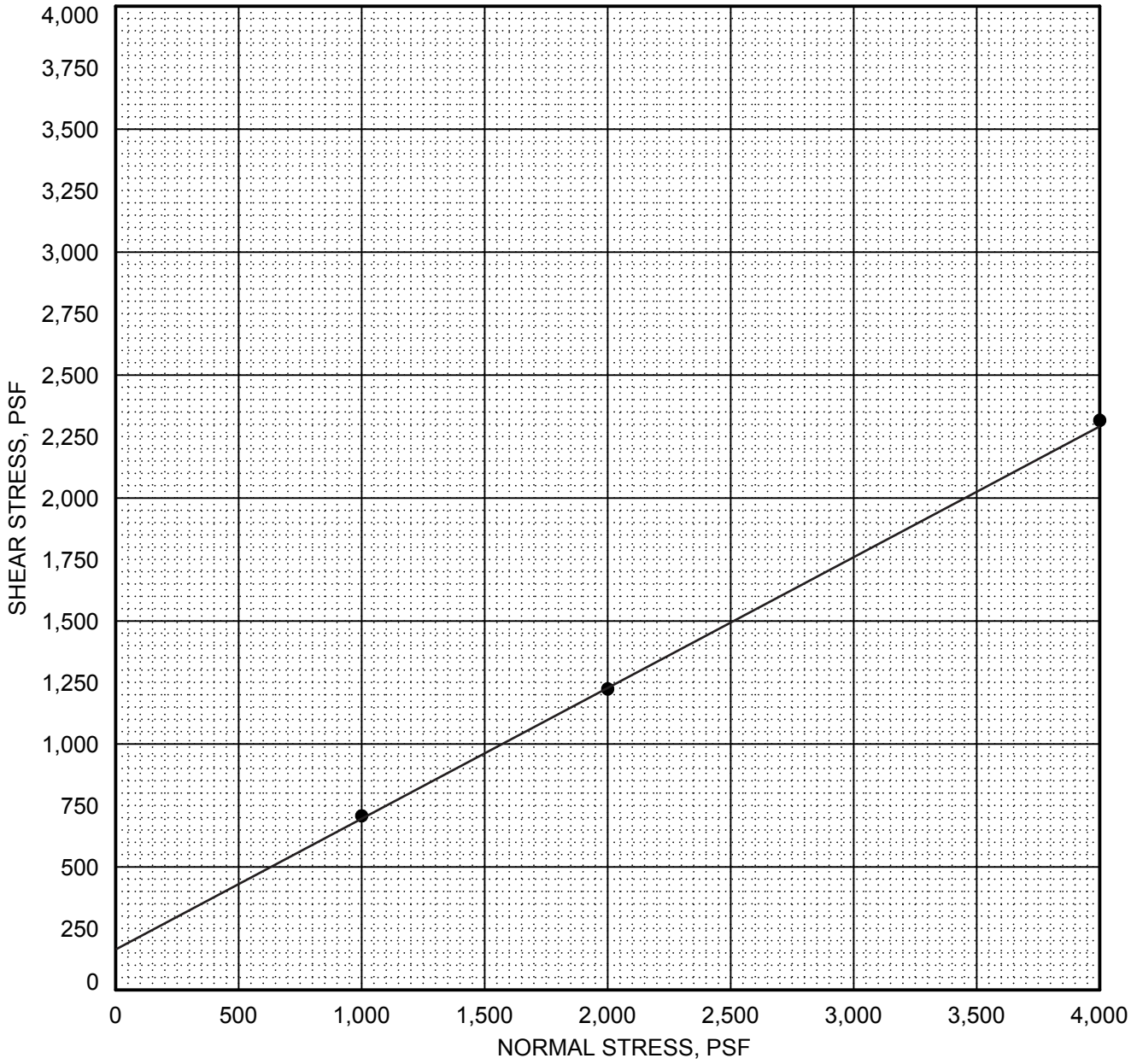
DIRECT SHEAR TEST
Undisturbed



5665 and 5757 Plaza Drive, Cypress	COHESION	162	psf.
	FRICTION ANGLE	28.0	degrees

symbol	boring	depth (ft.)	symbol	boring	depth (ft.)
●	B-3	30.0			

FIGURE S-4
DIRECT SHEAR TEST

PN: 1-1209 REPORT DATE: 05/04/22

G3SoilWorks
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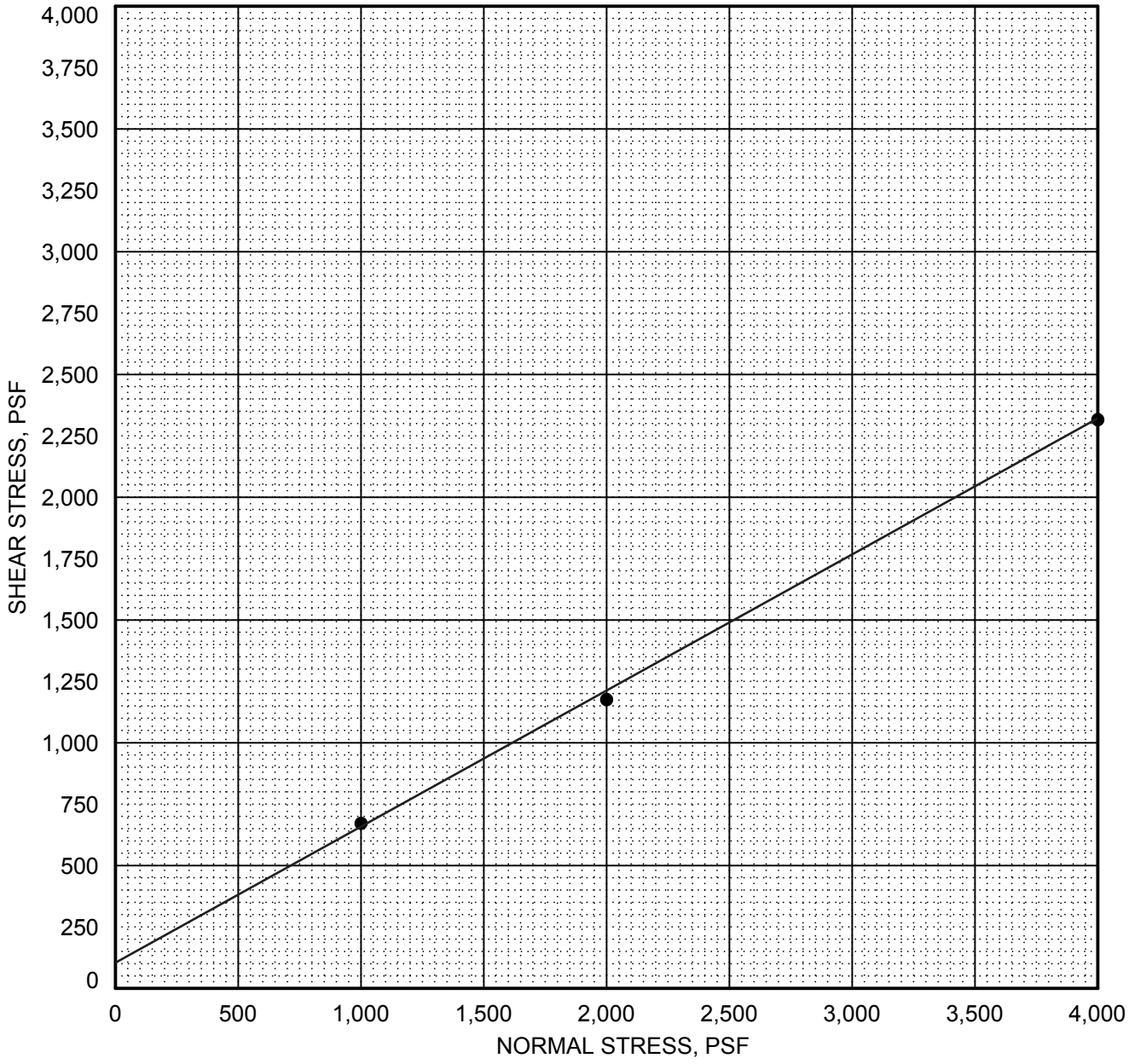
DIRECT SHEAR TEST
Undisturbed



5665 and 5757 Plaza Drive, Cypress	COHESION	102	psf.
	FRICTION ANGLE	29.0	degrees

symbol	boring	depth (ft.)	symbol	boring	depth (ft.)
●	B-4	10.0			

FIGURE S-5
DIRECT SHEAR TEST

PN: 1-1209 REPORT DATE: 05/04/22

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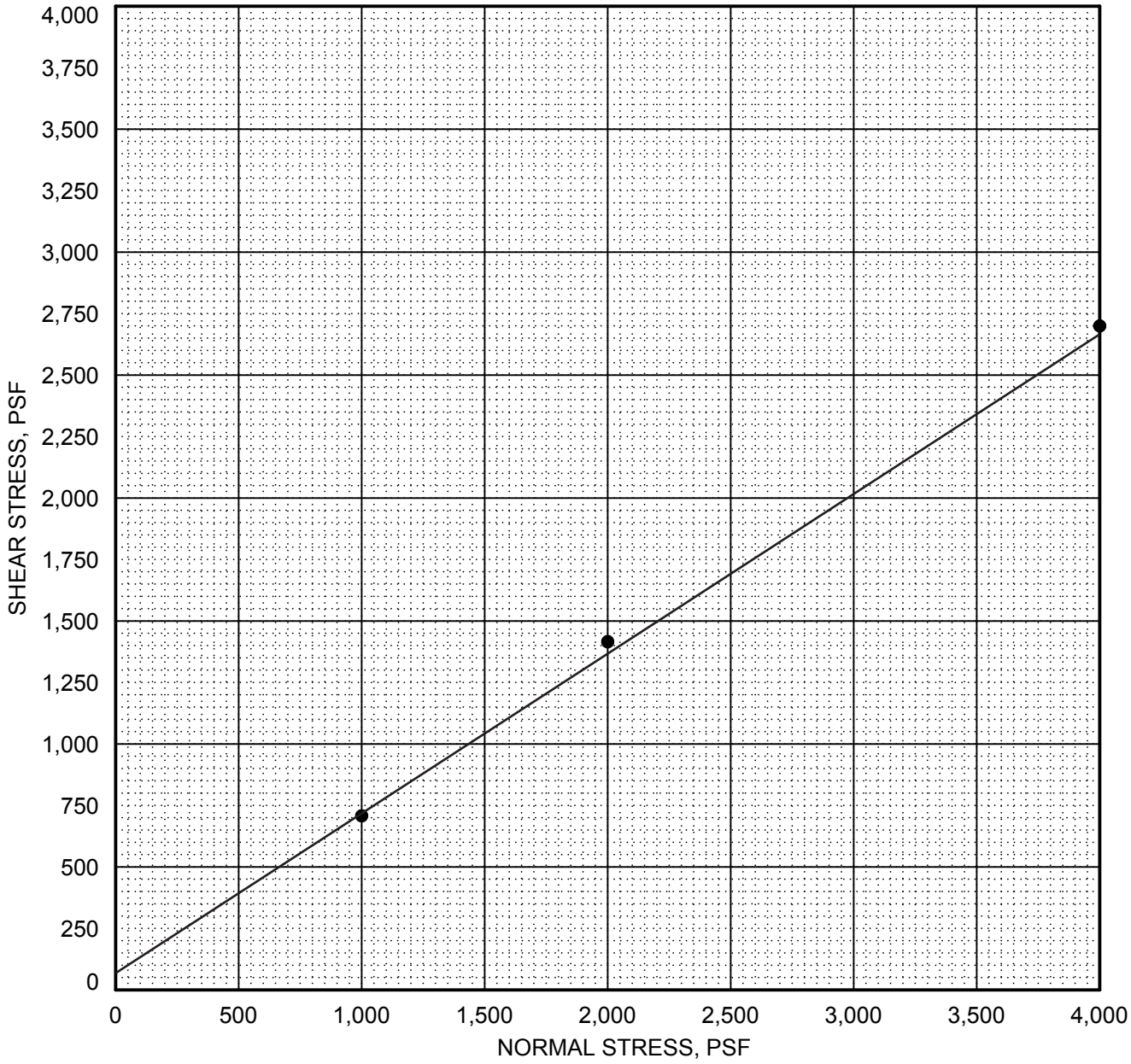
DIRECT SHEAR TEST
Undisturbed



5665 and 5757 Plaza Drive, Cypress	COHESION	66	psf.
	FRICTION ANGLE	33.0	degrees

symbol	boring	depth (ft.)	symbol	boring	depth (ft.)
●	B-4	20.0			

FIGURE S-6
DIRECT SHEAR TEST

PN: 1-1209 REPORT DATE: 05/04/22

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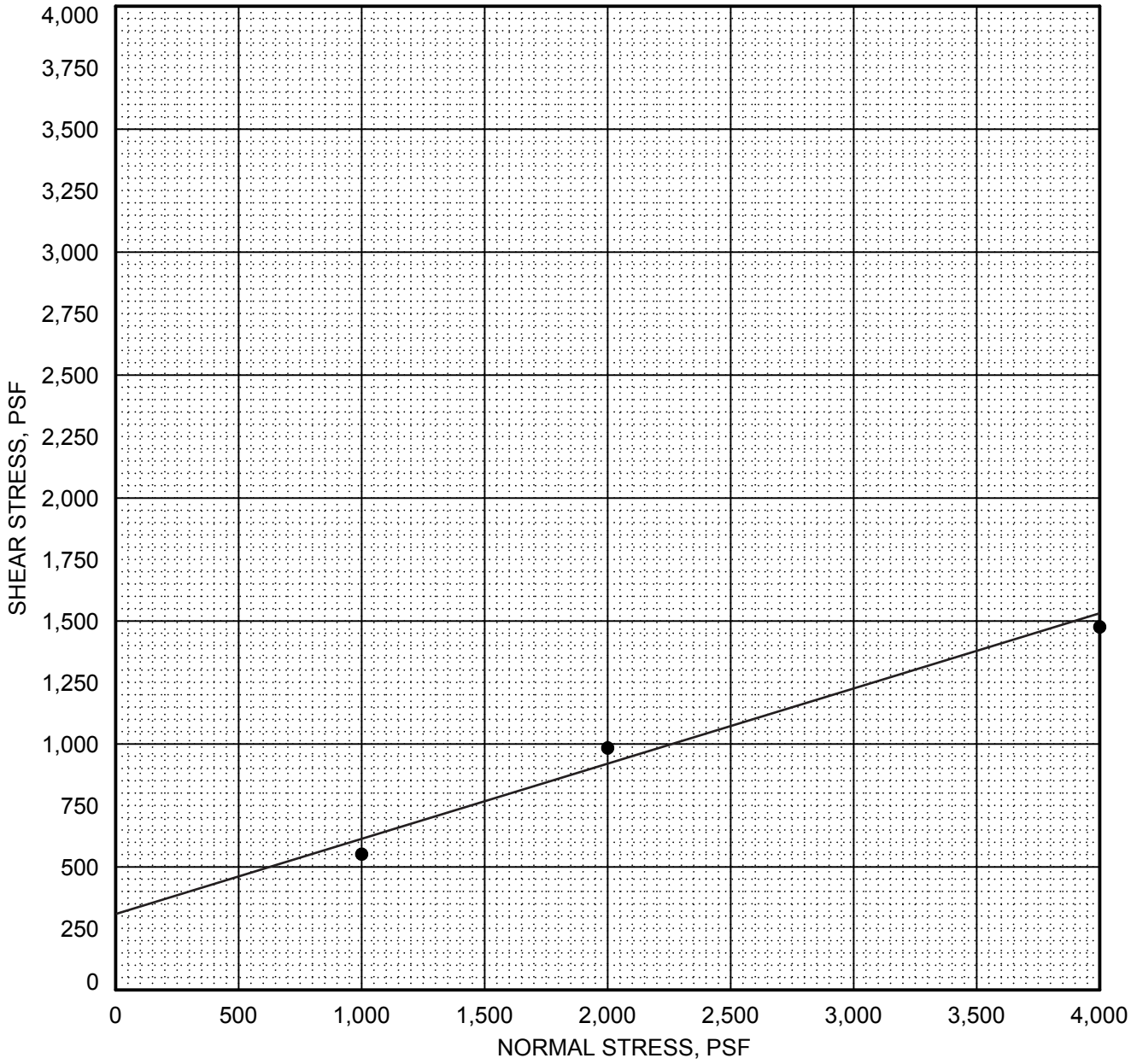
FIG. S-6

DIRECT SHEAR TEST
Undisturbed



5665 and 5757 Plaza Drive, Cypress	COHESION	306	psf.
	FRICTION ANGLE	17.0	degrees

symbol	boring	depth (ft.)	symbol	boring	depth (ft.)
●	B-5	15.0			

FIGURE S-7
DIRECT SHEAR TEST

PN: 1-1209 REPORT DATE: 05/04/22

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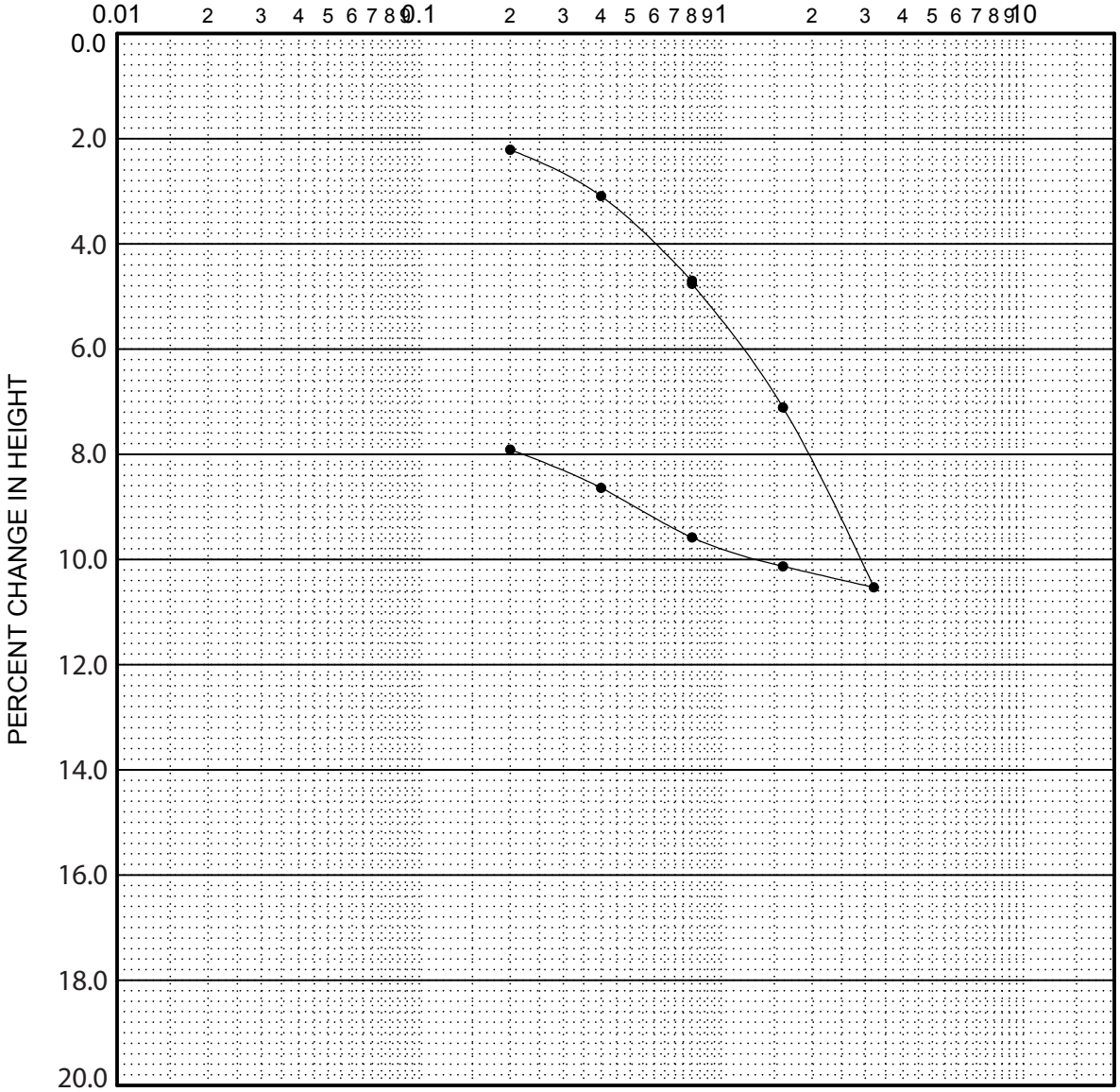
COMPRESSIVE STRESS IN TSF



Boring	Depth(ft.)	Dry Density	in situ Moist.	-200 sieve	Group Symbol	Soil Description
B-1	15.0	89.0	30.9		CL/ML	

WATER ADDED AT .8 TSF.

FIGURE C-1
CONSOLIDATION CURVE

PN:1-1209 REPORT DATE: 05/04/22

G3SoilWorks
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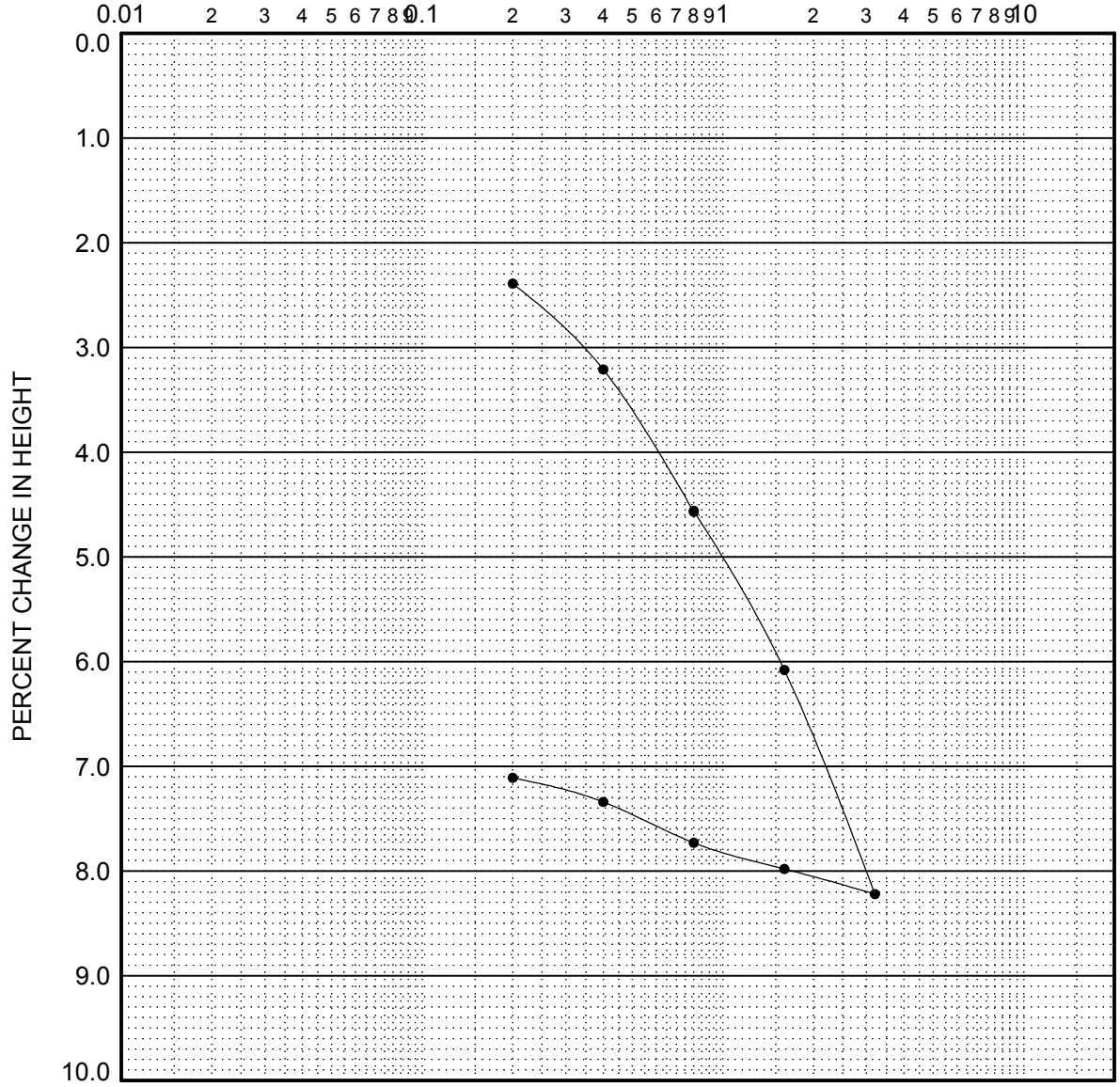
Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

FIG. C-1

COMPRESSIVE STRESS IN TSF



Boring	Depth(ft.)	Dry Density	in situ Moist.	-200 sieve	Group Symbol	Soil Description
B-3	15.0	99.1	23.3		ML	

WATER ADDED AT .8 TSF.

FIGURE C-2
CONSOLIDATION CURVE

PN:1-1209 REPORT DATE: 05/04/22

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350 Fischer Ave. Front
Costa Mesa, CA 92626
Phone: (714) 668 5600
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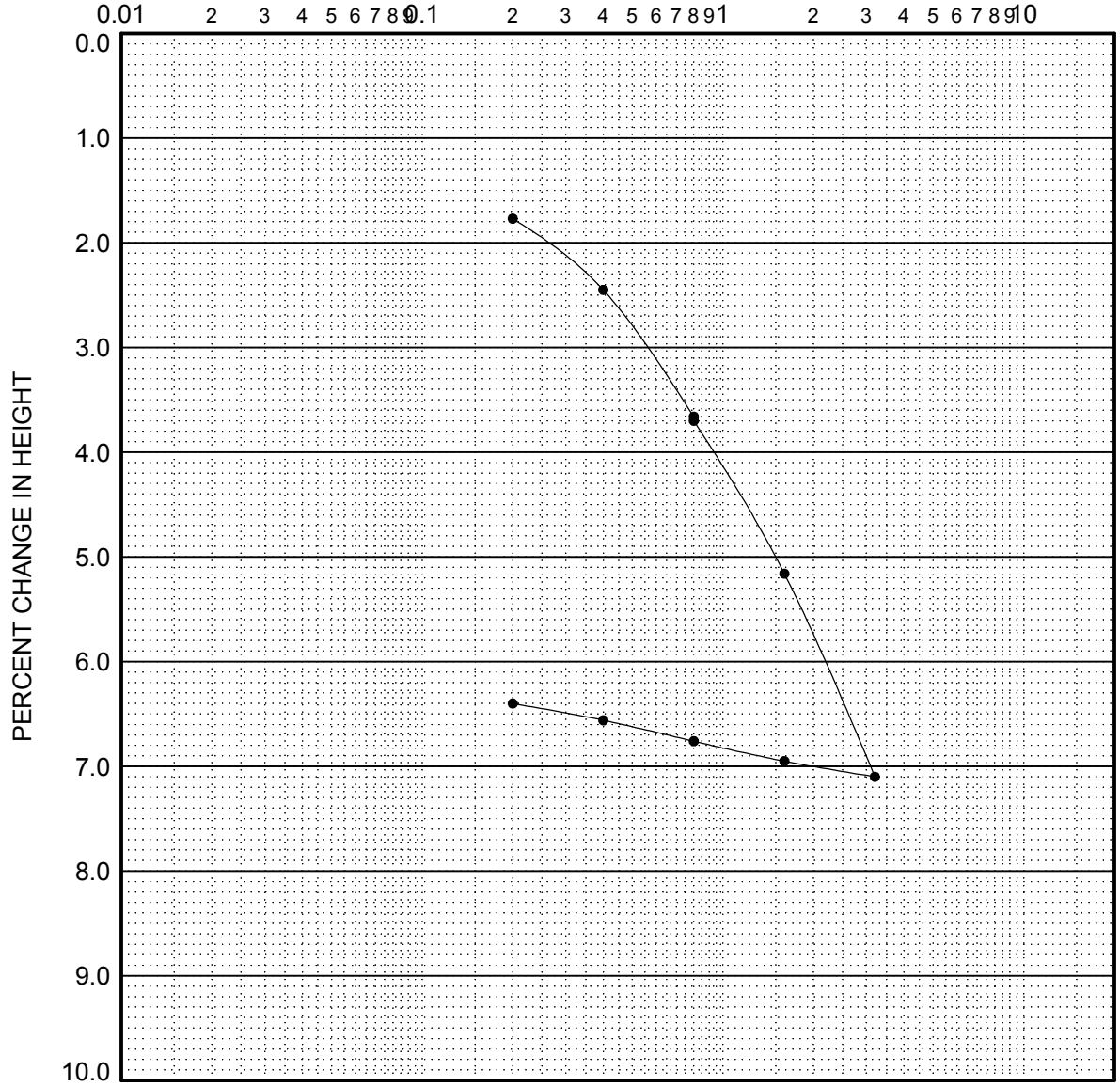
FIG. C-2

COMPRESSIVE STRESS IN TSF



Boring	Depth(ft.)	Dry Density	in situ Moist.	-200 sieve	Group Symbol	Soil Description
B-3	30.0	98.6	24.7		ML	

WATER ADDED AT .8 TSF.

FIGURE C-3
CONSOLIDATION CURVE

PN:1-1209 REPORT DATE: 05/04/22

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Costa Mesa, CA 92626
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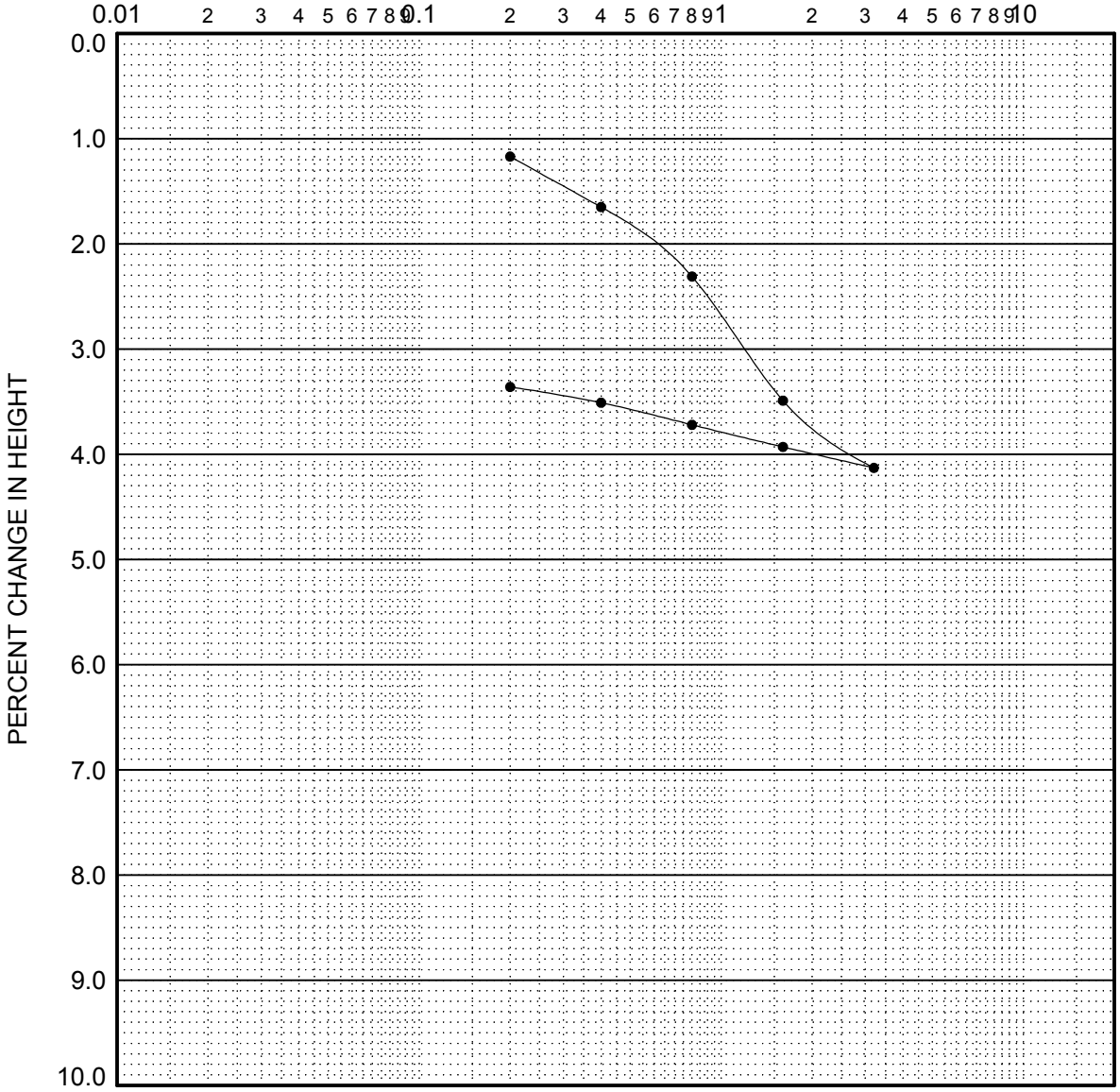
FIG. C-3

COMPRESSIVE STRESS IN TSF



Boring	Depth(ft.)	Dry Density	in situ Moist.	-200 sieve	Group Symbol	Soil Description
B-4	10.0	96.9	29.0		SM	

WATER ADDED AT .8 TSF.

FIGURE C-4
CONSOLIDATION CURVE

PN:1-1209 REPORT DATE: 05/04/22

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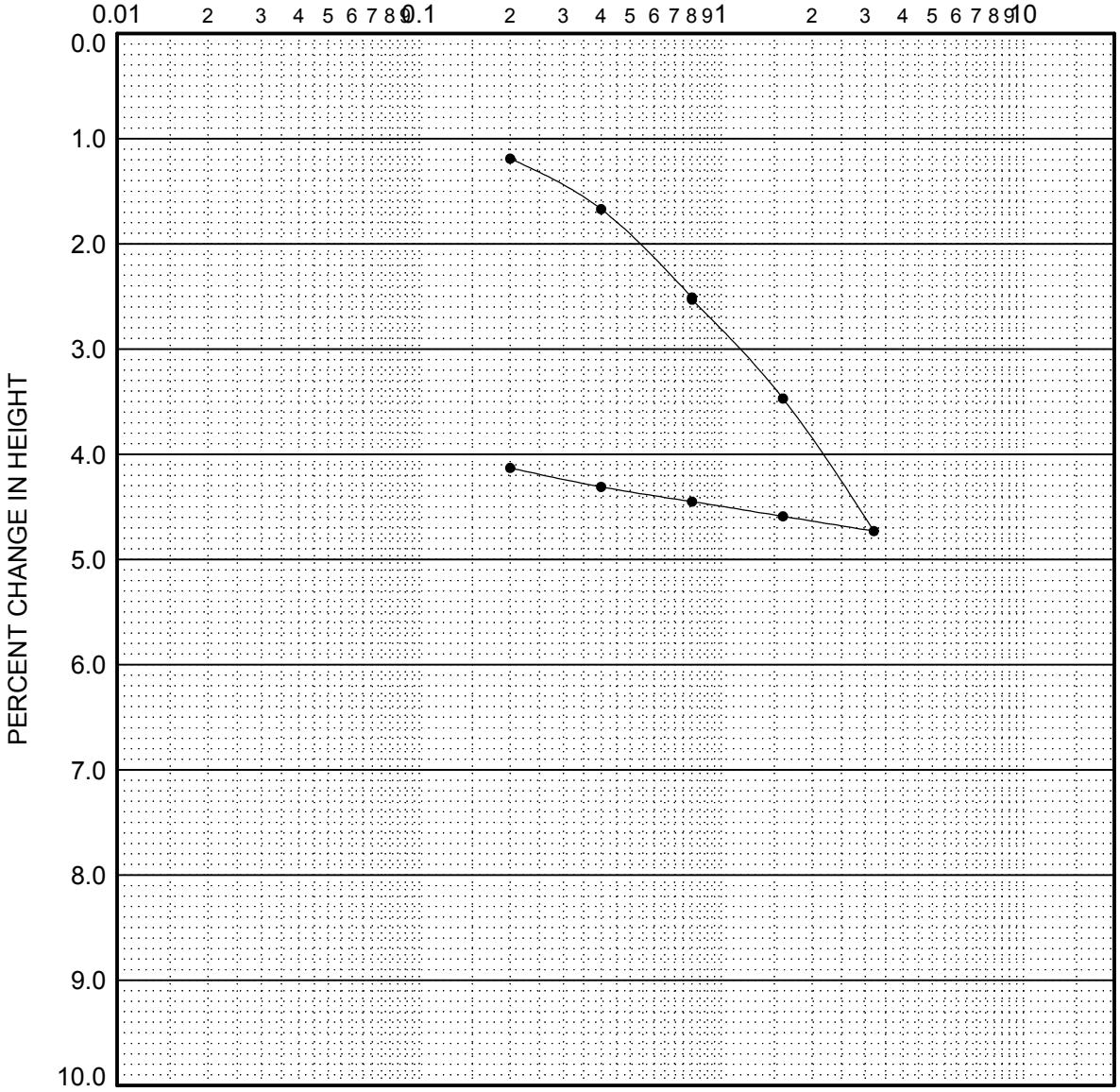
FIG. C-4

COMPRESSIVE STRESS IN TSF



Boring	Depth(ft.)	Dry Density	in situ Moist.	-200 sieve	Group Symbol	Soil Description
B-4	20.0	108.3	20.0		SM	

WATER ADDED AT .8 TSF.

FIGURE C-5
CONSOLIDATION CURVE

PN:1-1209 REPORT DATE: 05/04/22

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FIG. C-5

APPENDIX D

REFERENCE NO. 2 EXCERPTS

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-1

JOB NO.: 21G150-1
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 4/2/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 9.5 feet
CAVE DEPTH: 11 feet
READING TAKEN: At Completion

FIELD RESULTS					DESCRIPTION	LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic Concrete; 8± inches Aggregate Base							
		10			FILL: Gray Brown Silty fine Sand, mottled, loose to medium dense-moist to very moist		15					
		6					18					
5			2.0		ALLUVIUM: Gray Brown Silty Clay, trace Calcareous nodules, little Iron oxide staining, medium stiff-very moist		36	46	23			
		10			Dark Gray fine Sandy Silt, loose to medium dense-very moist to wet		24			56		
		7					29			62		
10												
15		13			@ 14 feet, trace Iron oxide staining		23			50		
					Gray Brown Silty fine Sand, loose to medium dense-wet							
		7					25			23		
20												
25		25			@ 24 feet, little Iron oxide staining		20			37		
					Gray Brown fine Sand, trace Silt, very loose-wet							
		2					25			4		
30			1.0		Gray Brown Silty Clay, little Iron oxide staining, very soft-wet		37	50	28	93		
					Gray Brown fine Sand, medium dense-wet							
		19					22			5		
					Gray Brown Silty fine Sand, trace Iron oxide staining, medium							

TBL 21G150-1.GPJ SOCALGEO.GDT 5/18/21

TEST BORING LOG

PLATE B-1a

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-1

JOB NO.: 21G150-1
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 4/2/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 9.5 feet
CAVE DEPTH: 11 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION (Continued)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					dense-wet							
40		16					23					
		14			@ 43½ feet, trace Calcareous nodules		21			42		
45												
					Gray fine Sandy Silt, medium dense-wet							
		15					31			80		
50					Boring Terminated at 50'							

TBL 21G150-1.GPJ SOCALGEO.GDT 5/18/21

TEST BORING LOG

PLATE B-1b

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-2

JOB NO.: 21G150-1 | DRILLING DATE: 4/2/21 | WATER DEPTH: 7.5 feet
PROJECT: Proposed C/I Development | DRILLING METHOD: Hollow Stem Auger | CAVE DEPTH: 8 feet
LOCATION: Cypress, California | LOGGED BY: Jamie Hayward | READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic Concrete; 5± inches Aggregate Base							
		12			FILL: Gray Brown Silty fine Sand, trace medium to coarse Sand, little fine Gravel, trace tree roots, loose-damp	91	7					
		18			ALLUVIUM: Light Gray Brown fine Sand, trace medium Sand, medium dense-damp	99	3					
5		24				92	5					
		14			Gray Silty fine Sand, loose-wet	102	21			21		
		11			Gray Brown fine Sandy Silt, loose-wet	93	29			70		
10												
		9	1.5		Gray Brown Silty Clay, little to some fine Sand, little Calcareous nodules, stiff-wet		27			82		
15												
		15			Gray Brown fine Sandy Silt, little Iron oxide staining, loose to medium dense-wet	103	23			59		
20												
		7					22			61		
25			1.0		Dark Gray to Gray fine Sandy Clay, medium stiff-wet		23	29	17	58		
					Gray Brown fine Sandy Silt, little Clay, trace Iron oxide staining, medium dense-wet							
		18				99	28					
30												
					Gray Brown Silty Clay, trace Calcareous nodules, little Iron oxide staining, stiff-wet							
		11					30			88		

TBL 21G150-1.GPJ SOCALGEO.GDT 5/18/21

TEST BORING LOG **PLATE B-2a**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-2

JOB NO.: 21G150-1
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 4/2/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 7.5 feet
CAVE DEPTH: 8 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION (Continued)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					Gray Brown fine Sandy Silt, medium dense-wet							
40		19					26					
					Gray Silty fine Sand, medium dense-wet							
		16					26			33		
45												
					Gray Silty Clay, little fine Sand, very stiff-wet							
		23	3.0				20			77		
50					Boring Terminated at 50'							

TBL 21G150-1.GPJ SOCALGEO.GDT 5/18/21

TEST BORING LOG

PLATE B-2b

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-3

JOB NO.: 21G150-1 | DRILLING DATE: 4/2/21 | WATER DEPTH: 9 feet
PROJECT: Proposed C/I Development | DRILLING METHOD: Hollow Stem Auger | CAVE DEPTH: 12 feet
LOCATION: Cypress, California | LOGGED BY: Jamie Hayward | READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic Concrete; 8± inches Aggregate Base							
		12			FILL: Gray Silty fine Sand, little Clay, loose-moist to very moist	107	16					
		8			@ 3 feet, slightly mottled	100	21					
5		10				107	19					
		15	1.5		ALLUVIUM: Gray Silty Clay, trace Iron oxide staining, stiff-very moist	93	30			83		
					Gray Brown Silty fine Sand to fine Sandy Silt, little Iron oxide staining, medium dense-wet							
		16				103	25			45		
10												
					Gray Brown Silty Clay, little fine Sand, medium stiff-wet							
		5	2.0				31	38	21	69		
15												
					Gray Brown fine Sandy Silt, little Iron oxide staining, micaceous, loose to medium dense-wet							
		12				96	25			66		
20												
		12					24					
25					Gray Silty fine Sand, trace to little Clay, medium dense-wet		21	25	21	41		
					Gray Silty fine Sand to fine Sandy Silt, loose-wet							
		10				98	25			55		
30												
					Light Gray Brown fine Sandy Clay, little Iron oxide staining, trace Calcareous nodules/veining, stiff-wet							
		11	2.0				29	40	20	76		

TBL 21G150-1.GPJ SOCALGEO.GDT 5/18/21

TEST BORING LOG **PLATE B-3a**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-3

JOB NO.: 21G150-1
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 4/2/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 9 feet
CAVE DEPTH: 12 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION (Continued)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					Gray Brown Silty fine Sand, loose-wet							
		7					27			40		
40												
					Gray Brown fine Sand, little Silt, medium dense-wet							
		16					24			11		
45												
		18					22					
50					Boring Terminated at 50'							

TBL 21G150-1.GPJ SOCALGEO.GDT 5/18/21

TEST BORING LOG **PLATE B-3b**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-4

JOB NO.: 21G150-1 | DRILLING DATE: 4/2/21 | WATER DEPTH: 6 feet
PROJECT: Proposed C/I Development | DRILLING METHOD: Hollow Stem Auger | CAVE DEPTH: 12 feet
LOCATION: Cypress, California | LOGGED BY: Jamie Hayward | READING TAKEN: 4 hrs After Completion

DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic Concrete; 8± inches Aggregate Base							
		11			FILL: Gray Silty fine Sand, 2-inch fine Sandy Silt lense, medium dense-very moist to wet		15					EI = 8 @ 0 to 5 feet
		6			@ 3½ feet, mottled, loose		28					
5												
		4			FILL: Brown Silty fine Sand, very loose to loose-wet		22			17		
					ALLUVIUM: Gray Brown Silty fine Sand, very loose to loose-wet		26			41		
		2					27			37		
10												
					Gray Brown Silty Clay, little fine Sand, little Iron oxide staining, medium stiff-wet							
		11	2.5				27	40	18	82		
15												
					Gray fine Sand, trace to little Silt, loose-wet							
		8					28					
20												
		25			@ 24 feet, medium dense		16			11		
25												
		5					24			12		
					Gray Brown fine Sandy Silt, loose-wet		24			59		
30												
					Gray Brown Silty fine Sand, medium dense-wet							
		35					19			36		

TBL 21G150-1.GPJ SOCALGEO.GDT 5/18/21

TEST BORING LOG **PLATE B-4a**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-4

JOB NO.: 21G150-1
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 4/2/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 6 feet
CAVE DEPTH: 12 feet
READING TAKEN: 4 hrs After Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION (Continued)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					Gray Brown to Gray fine Sandy Silt, little Iron oxide staining, medium dense-wet							
40		27					31					
					Gray Brown to Gray Silty fine Sand, medium dense-wet							
		12					27			42		
45					Gray fine Sandy Silt, trace Clay, medium dense-wet		18			54		
		26					20					
50					Boring Terminated at 50'							

TBL 21G150-1.GPJ SOCALGEO.GDT 5/18/21

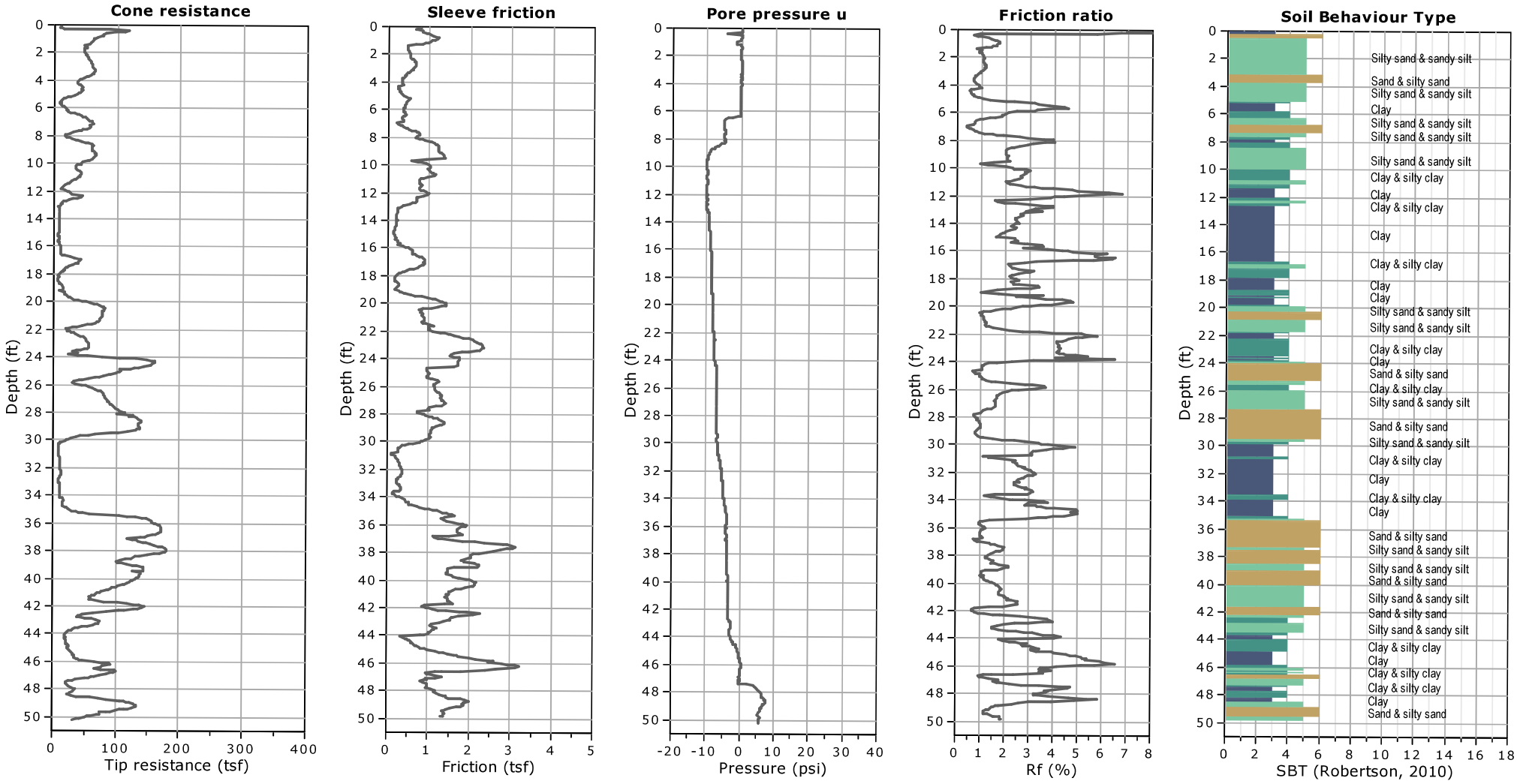
TEST BORING LOG

PLATE B-4b

Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

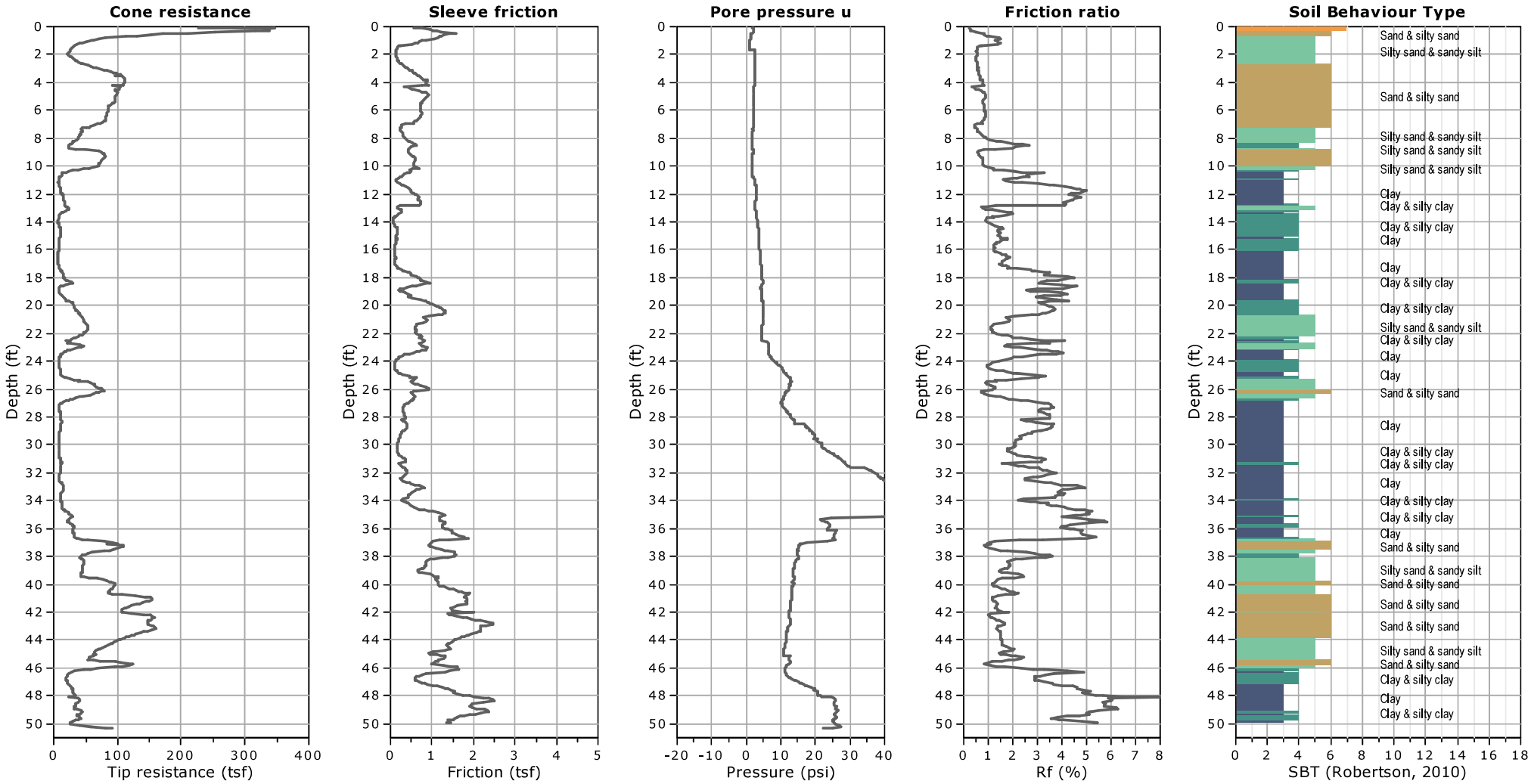
Project: Southern California Geotechnical
Location: 5665 Plaza Dr, Cypress, CA

CPT-1
Total depth: 50.22 ft, Date: 4/2/2021



Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: **Southern California Geotechnical** **CPT-2**
Location: **5665 Plaza Dr, Cypress, CA** Total depth: 50.33 ft, Date: 4/2/2021



Kehoe Testing and Engineering
714-901-7270
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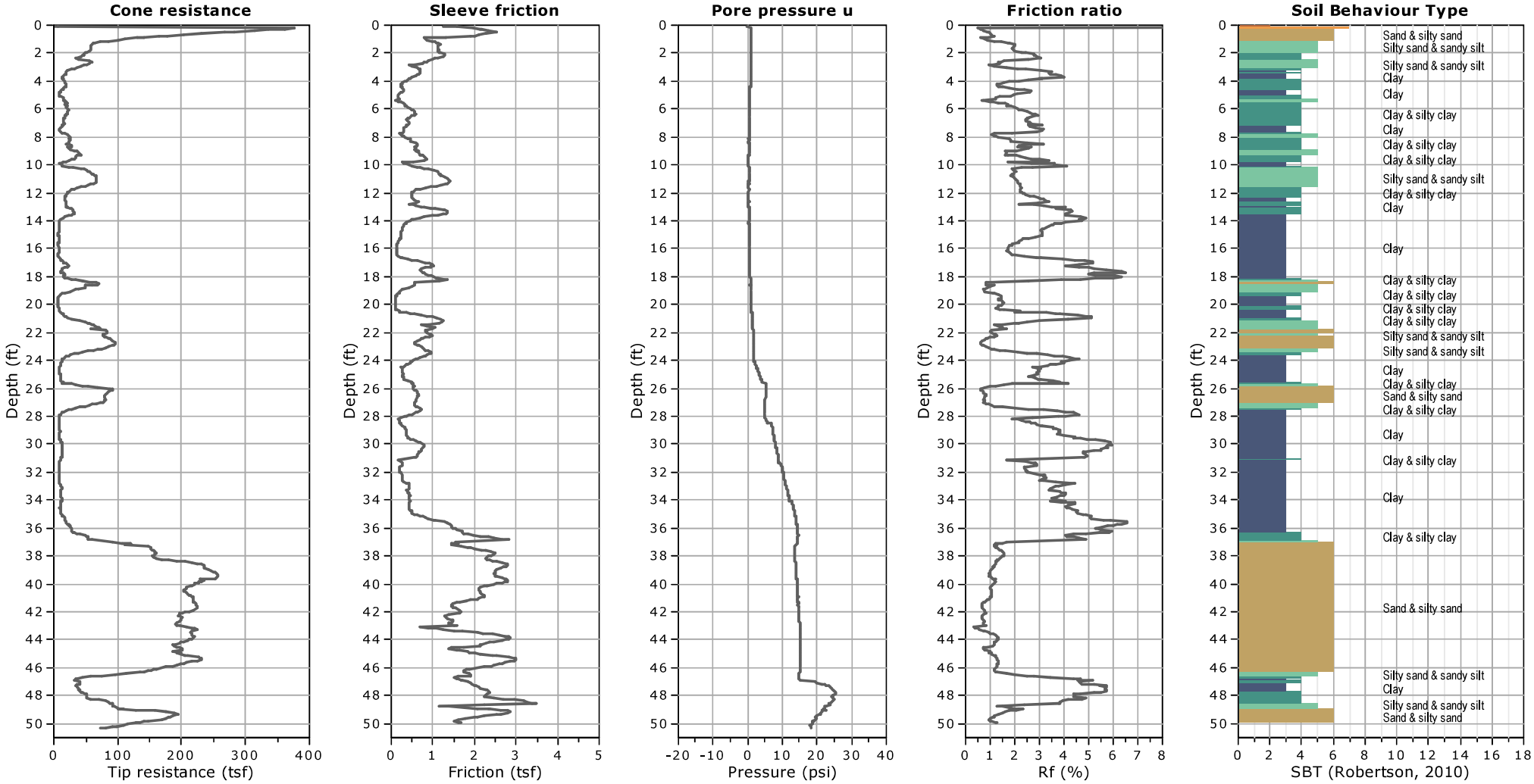
Project: **Southern California Geotechnical** **CPT-3**
Location: **5665 Plaza Dr, Cypress, CA** Total depth: 50.35 ft, Date: 4/2/2021



Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
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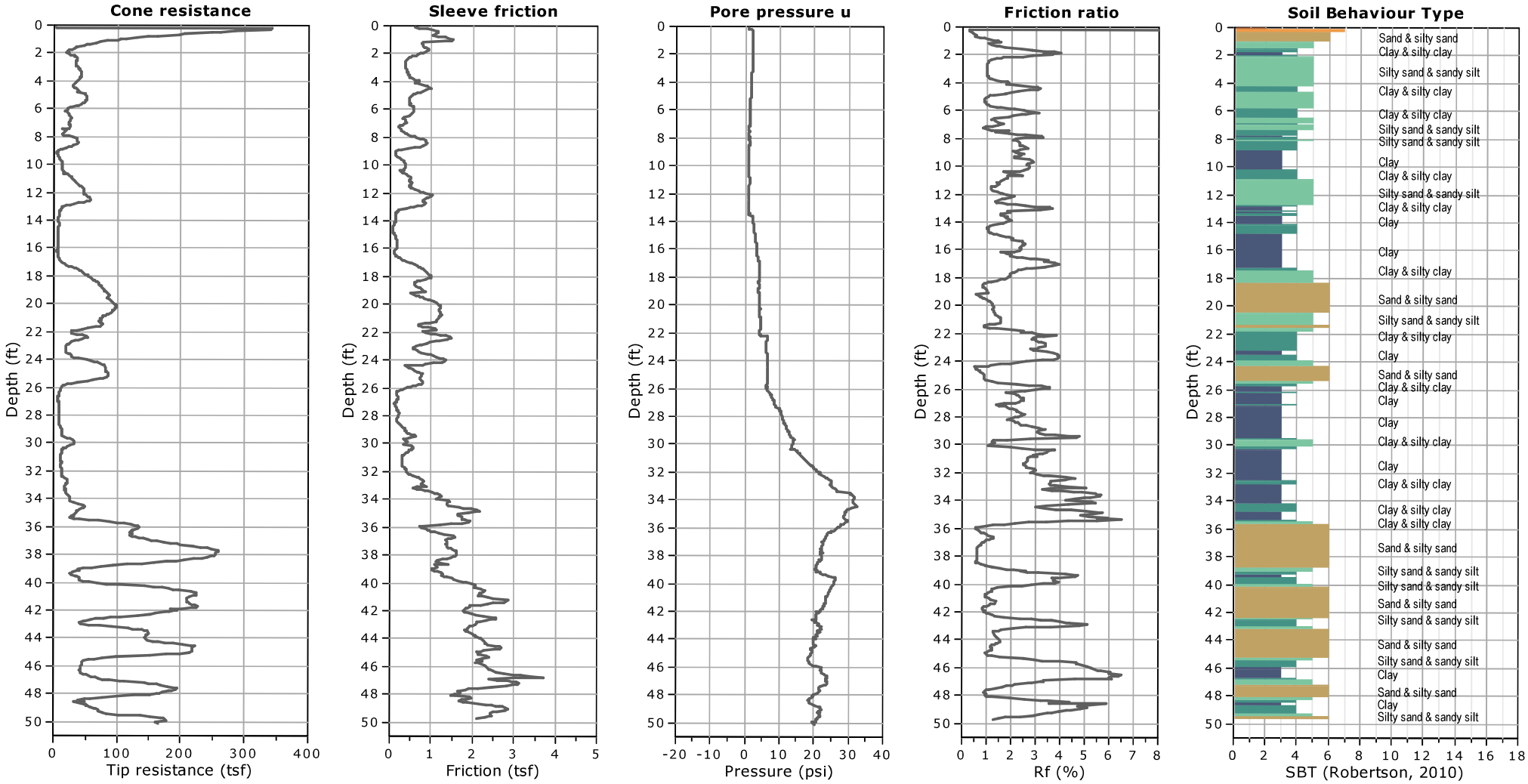
Project: Southern California Geotechnical
Location: 5665 Plaza Dr, Cypress, CA

CPT-4
Total depth: 50.10 ft, Date: 4/2/2021



:: Post-earthquake settlement due to soil liquefaction ::

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
5.06	105.65	0.39	3.04	1.00	0.02	5.15	98.60	0.35	3.26	1.00	0.03
5.19	94.96	0.34	3.39	1.00	0.02	5.28	26.94	2.00	0.00	1.00	0.00
5.32	25.00	2.00	0.00	1.00	0.00	5.40	22.09	2.00	0.00	1.00	0.00
5.45	18.48	2.00	0.00	1.00	0.00	5.54	15.55	2.00	0.00	1.00	0.00
5.58	15.13	2.00	0.00	1.00	0.00	5.66	14.44	2.00	0.00	1.00	0.00
5.72	15.97	2.00	0.00	1.00	0.00	5.80	18.60	2.00	0.00	1.00	0.00
5.85	20.00	2.00	0.00	1.00	0.00	5.92	24.45	2.00	0.00	1.00	0.00
5.99	86.64	0.29	3.71	1.00	0.03	6.04	87.43	0.29	3.68	1.00	0.02
6.12	89.04	0.30	3.61	1.00	0.04	6.20	91.91	0.30	3.50	1.00	0.04
6.24	93.96	0.31	3.42	1.00	0.02	6.32	99.49	0.32	3.23	1.00	0.03
6.39	104.70	0.34	3.06	1.00	0.02	6.46	106.41	0.35	3.01	1.00	0.03
6.51	105.90	0.34	3.03	1.00	0.02	6.59	103.31	0.33	3.11	1.00	0.03
6.64	101.41	0.32	3.17	1.00	0.02	6.70	99.84	0.32	3.22	1.00	0.03
6.79	100.57	0.32	3.19	1.00	0.03	6.83	96.59	0.30	3.33	1.00	0.01
6.90	89.51	0.28	3.59	1.00	0.03	6.99	92.52	0.29	3.48	1.00	0.04
7.04	93.83	0.29	3.43	1.00	0.02	7.12	95.27	0.29	3.37	1.00	0.03
7.17	95.76	0.29	3.36	1.00	0.02	7.23	93.20	0.28	3.45	1.00	0.03
7.33	100.03	0.30	3.21	1.00	0.04	7.36	102.37	0.31	3.14	1.00	0.01
7.42	108.82	0.33	2.94	1.00	0.02	7.50	114.73	0.36	2.79	1.00	0.03
7.59	116.57	0.37	2.74	1.00	0.03	7.63	114.97	0.36	2.78	1.00	0.02
7.68	112.14	0.34	2.85	1.00	0.02	7.76	103.61	0.31	3.10	1.00	0.03
7.81	98.37	0.29	3.27	1.00	0.02	7.89	29.14	2.00	0.00	1.00	0.00
7.94	26.27	2.00	0.00	1.00	0.00	8.03	24.70	2.00	0.00	1.00	0.00
8.12	27.54	2.00	0.00	1.00	0.00	8.16	32.41	2.00	0.00	1.00	0.00
8.20	101.14	0.29	3.18	1.00	0.02	8.29	110.07	0.33	2.91	1.00	0.03
8.34	111.74	0.33	2.86	1.00	0.02	8.43	118.93	0.36	2.68	1.00	0.03
8.49	124.88	0.40	2.54	1.00	0.02	8.54	129.17	0.43	2.45	1.00	0.01
8.61	133.85	0.46	2.36	1.00	0.02	8.69	134.94	0.47	2.34	1.00	0.02
8.73	135.30	0.47	2.33	1.00	0.01	8.82	134.71	0.47	2.34	1.00	0.03
8.86	134.45	0.46	2.35	1.00	0.01	8.96	134.25	0.46	2.35	1.00	0.03
9.01	134.07	0.46	2.35	1.00	0.01	9.08	134.29	0.46	2.35	1.00	0.02
9.13	135.04	0.46	2.33	1.00	0.01	9.23	137.50	0.49	2.29	1.00	0.03
9.30	138.71	0.50	2.27	1.00	0.02	9.35	139.26	0.50	2.26	1.00	0.01
9.39	139.18	0.50	2.26	1.00	0.01	9.51	137.83	0.48	2.28	1.00	0.03
9.54	136.94	0.48	2.30	1.00	0.01	9.60	126.47	0.39	2.51	1.00	0.02
9.65	110.14	0.31	2.91	1.00	0.02	9.77	118.19	0.34	2.70	1.00	0.04
9.83	118.50	0.34	2.69	1.00	0.02	9.93	115.20	0.33	2.77	1.00	0.03
9.98	113.29	0.32	2.82	1.00	0.02	10.04	114.58	0.32	2.79	1.00	0.02
10.13	107.25	0.29	2.99	1.00	0.03	10.20	104.68	0.28	3.07	1.00	0.03
10.27	104.42	0.28	3.07	1.00	0.03	10.32	104.17	0.28	3.08	1.00	0.02
10.40	104.31	0.28	3.08	1.00	0.03	10.45	107.24	0.29	2.99	1.00	0.02
10.53	111.49	0.31	2.87	1.00	0.03	10.57	112.49	0.31	2.84	1.00	0.01
10.66	113.58	0.31	2.81	1.00	0.03	10.71	114.22	0.32	2.80	1.00	0.02
10.79	113.99	0.31	2.80	1.00	0.03	10.88	111.08	0.30	2.88	1.00	0.03
10.93	109.19	0.29	2.93	1.00	0.02	10.98	107.23	0.29	2.99	1.00	0.02
11.07	103.80	0.27	3.09	1.00	0.04	11.12	101.95	0.27	3.15	1.00	0.02
11.17	100.06	0.26	3.21	1.00	0.02	11.27	95.22	0.25	3.38	1.00	0.04
11.32	93.20	0.24	3.45	1.00	0.02	11.37	91.05	0.23	3.53	1.00	0.02

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
11.43	29.14	2.00	0.00	1.00	0.00	11.49	26.45	2.00	0.00	1.00	0.00
11.58	21.60	2.00	0.00	1.00	0.00	11.64	19.64	2.00	0.00	1.00	0.00
11.76	15.59	2.00	0.00	1.00	0.00	11.84	15.14	2.00	0.00	1.00	0.00
11.89	17.48	2.00	0.00	1.00	0.00	11.95	22.37	2.00	0.00	1.00	0.00
12.02	27.90	2.00	0.00	1.00	0.00	12.07	30.58	2.00	0.00	1.00	0.00
12.11	31.58	2.00	0.00	1.00	0.00	12.20	95.23	0.24	3.38	1.00	0.04
12.33	107.16	0.27	2.99	1.00	0.05	12.37	109.09	0.28	2.94	1.00	0.02
12.44	106.98	0.27	3.00	1.00	0.02	12.51	102.44	0.26	3.13	1.00	0.03
12.58	94.94	0.24	3.39	1.00	0.03	12.63	87.53	0.22	3.67	1.00	0.02
12.69	22.75	2.00	0.00	1.00	0.00	12.75	19.15	2.00	0.00	1.00	0.00
12.81	16.49	2.00	0.00	1.00	0.00	12.88	15.11	2.00	0.00	1.00	0.00
12.94	14.13	2.00	0.00	1.00	0.00	13.00	13.16	2.00	0.00	1.00	0.00
13.12	11.43	2.00	0.00	1.00	0.00	13.16	8.96	2.00	0.00	1.00	0.00
13.20	10.77	2.00	0.00	1.00	0.00	13.27	10.87	2.00	0.00	1.00	0.00
13.34	10.85	2.00	0.00	1.00	0.00	13.42	10.84	2.00	0.00	1.00	0.00
13.45	10.40	2.00	0.00	1.00	0.00	13.56	11.02	2.00	0.00	1.00	0.00
13.60	11.11	2.00	0.00	1.00	0.00	13.68	10.89	2.00	0.00	1.00	0.00
13.74	10.88	2.00	0.00	1.00	0.00	13.82	10.86	2.00	0.00	1.00	0.00
13.85	10.85	2.00	0.00	1.00	0.00	13.95	10.83	2.00	0.00	1.00	0.00
14.00	10.82	2.00	0.00	1.00	0.00	14.05	10.72	2.00	0.00	1.00	0.00
14.13	10.70	2.00	0.00	1.00	0.00	14.17	10.69	2.00	0.00	1.00	0.00
14.26	9.82	2.00	0.00	1.00	0.00	14.31	9.72	2.00	0.00	1.00	0.00
14.39	10.12	2.00	0.00	1.00	0.00	14.44	10.11	2.00	0.00	1.00	0.00
14.53	10.10	2.00	0.00	1.00	0.00	14.59	10.09	2.00	0.00	1.00	0.00
14.66	9.98	2.00	0.00	1.00	0.00	14.70	9.97	2.00	0.00	1.00	0.00
14.79	9.96	2.00	0.00	1.00	0.00	14.84	9.95	2.00	0.00	1.00	0.00
14.96	9.78	2.00	0.00	1.00	0.00	15.01	9.61	2.00	0.00	1.00	0.00
15.10	8.23	2.00	0.00	1.00	0.00	15.15	9.06	2.00	0.00	1.00	0.00
15.22	9.04	2.00	0.00	1.00	0.00	15.27	9.35	2.00	0.00	1.00	0.00
15.32	9.96	2.00	0.00	1.00	0.00	15.45	9.53	2.00	0.00	1.00	0.00
15.50	9.42	2.00	0.00	1.00	0.00	15.58	8.27	2.00	0.00	1.00	0.00
15.63	8.58	2.00	0.00	1.00	0.00	15.68	9.90	2.00	0.00	1.00	0.00
15.75	9.79	2.00	0.00	1.00	0.00	15.80	10.49	2.00	0.00	1.00	0.00
15.87	11.50	2.00	0.00	1.00	0.00	15.93	11.89	2.00	0.00	1.00	0.00
15.99	12.79	2.00	0.00	1.00	0.00	16.03	13.09	2.00	0.00	1.00	0.00
16.11	12.46	2.00	0.00	1.00	0.00	16.15	11.84	2.00	0.00	1.00	0.00
16.23	12.23	2.00	0.00	1.00	0.00	16.28	12.31	2.00	0.00	1.00	0.00
16.37	12.29	2.00	0.00	1.00	0.00	16.41	11.88	2.00	0.00	1.00	0.00
16.49	11.87	2.00	0.00	1.00	0.00	16.55	12.76	2.00	0.00	1.00	0.00
16.63	16.21	2.00	0.00	1.00	0.00	16.67	19.97	2.00	0.00	1.00	0.00
16.76	30.38	2.00	0.00	1.00	0.00	16.81	96.52	0.22	3.33	1.00	0.02
16.90	104.95	0.24	3.06	1.00	0.03	16.93	106.25	0.25	3.02	1.00	0.01
17.02	104.80	0.24	3.06	1.00	0.03	17.07	104.25	0.24	3.08	1.00	0.02
17.16	103.77	0.24	3.09	1.00	0.03	17.21	102.11	0.23	3.15	1.00	0.02
17.27	98.71	0.22	3.26	1.00	0.02	17.34	93.68	0.21	3.43	1.00	0.03
17.44	25.77	2.00	0.00	1.00	0.00	17.51	23.43	2.00	0.00	1.00	0.00
17.55	21.38	2.00	0.00	1.00	0.00	17.63	20.29	2.00	0.00	1.00	0.00
17.69	19.21	2.00	0.00	1.00	0.00	17.74	18.12	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
17.82	16.35	2.00	0.00	1.00	0.00	17.86	14.10	2.00	0.00	1.00	0.00
17.92	12.02	2.00	0.00	1.00	0.00	18.00	10.04	2.00	0.00	1.00	0.00
18.06	9.25	2.00	0.00	1.00	0.00	18.12	8.16	2.00	0.00	1.00	0.00
18.25	8.63	2.00	0.00	1.00	0.00	18.30	8.43	2.00	0.00	1.00	0.00
18.37	8.43	2.00	0.00	1.00	0.00	18.43	8.42	2.00	0.00	1.00	0.00
18.54	8.21	2.00	0.00	1.00	0.00	18.61	9.07	2.00	0.00	1.00	0.00
18.66	10.13	2.00	0.00	1.00	0.00	18.73	12.35	2.00	0.00	1.00	0.00
18.78	14.87	2.00	0.00	1.00	0.00	18.97	73.05	0.17	4.37	1.00	0.10
19.09	16.33	2.00	0.00	1.00	0.00	19.15	14.20	2.00	0.00	1.00	0.00
19.16	12.47	2.00	0.00	1.00	0.00	19.17	10.25	2.00	0.00	1.00	0.00
19.26	17.42	2.00	0.00	1.00	0.00	19.30	18.17	2.00	0.00	1.00	0.00
19.39	19.08	2.00	0.00	1.00	0.00	19.43	19.63	2.00	0.00	1.00	0.00
19.53	21.66	2.00	0.00	1.00	0.00	19.59	22.95	2.00	0.00	1.00	0.00
19.66	25.16	2.00	0.00	1.00	0.00	19.71	27.84	2.00	0.00	1.00	0.00
19.83	35.81	2.00	0.00	1.00	0.00	19.89	103.55	0.23	3.10	1.00	0.02
19.96	110.97	0.25	2.88	1.00	0.03	20.01	117.44	0.27	2.72	1.00	0.02
20.07	123.87	0.30	2.57	1.00	0.02	20.14	128.46	0.33	2.47	1.00	0.02
20.21	131.22	0.34	2.41	1.00	0.02	20.27	132.30	0.35	2.39	1.00	0.02
20.32	129.67	0.33	2.44	1.00	0.01	20.38	122.94	0.30	2.59	1.00	0.02
20.45	115.74	0.27	2.76	1.00	0.02	20.50	121.25	0.29	2.63	1.00	0.02
20.62	119.60	0.28	2.66	1.00	0.04	20.68	121.45	0.29	2.62	1.00	0.02
20.75	122.13	0.29	2.61	1.00	0.02	20.81	121.49	0.29	2.62	1.00	0.02
20.84	121.54	0.29	2.62	1.00	0.01	20.98	122.78	0.29	2.59	1.00	0.04
21.05	123.63	0.30	2.57	1.00	0.02	21.11	123.67	0.30	2.57	1.00	0.02
21.17	123.19	0.30	2.58	1.00	0.02	21.23	122.53	0.29	2.60	1.00	0.02
21.37	120.77	0.28	2.64	1.00	0.04	21.41	121.11	0.29	2.63	1.00	0.01
21.48	122.57	0.29	2.60	1.00	0.02	21.54	123.21	0.30	2.58	1.00	0.02
21.60	121.22	0.29	2.63	1.00	0.02	21.67	114.05	0.26	2.80	1.00	0.02
21.72	106.84	0.23	3.00	1.00	0.02	21.80	99.11	0.21	3.24	1.00	0.03
21.85	31.01	2.00	0.00	1.00	0.00	21.90	25.77	2.00	0.00	1.00	0.00
21.94	20.97	2.00	0.00	1.00	0.00	21.99	21.67	2.00	0.00	1.00	0.00
22.10	23.25	2.00	0.00	1.00	0.00	22.16	26.54	2.00	0.00	1.00	0.00
22.22	30.08	2.00	0.00	1.00	0.00	22.26	32.65	2.00	0.00	1.00	0.00
22.36	36.67	2.00	0.00	1.00	0.00	22.43	39.89	2.00	0.00	1.00	0.00
22.49	108.13	0.24	2.96	1.00	0.02	22.55	113.52	0.25	2.82	1.00	0.02
22.62	116.41	0.26	2.74	1.00	0.02	22.68	117.42	0.27	2.72	1.00	0.02
22.80	118.59	0.27	2.69	1.00	0.04	22.86	119.93	0.28	2.66	1.00	0.02
22.93	120.84	0.28	2.64	1.00	0.02	22.98	121.61	0.29	2.62	1.00	0.02
23.05	121.47	0.29	2.62	1.00	0.02	23.11	121.60	0.29	2.62	1.00	0.02
23.18	122.28	0.29	2.60	1.00	0.02	23.24	122.36	0.29	2.60	1.00	0.02
23.31	121.81	0.29	2.61	1.00	0.02	23.37	119.53	0.28	2.67	1.00	0.02
23.42	115.34	0.26	2.77	1.00	0.02	23.49	44.55	2.00	0.00	1.00	0.00
23.54	37.74	2.00	0.00	1.00	0.00	23.63	30.64	2.00	0.00	1.00	0.00
23.69	38.35	2.00	0.00	1.00	0.00	23.75	23.77	2.00	0.00	1.00	0.00
23.86	38.95	2.00	0.00	1.00	0.00	23.93	118.56	0.27	2.69	1.00	0.02
23.98	138.73	0.39	2.27	1.00	0.01	24.04	155.52	0.59	1.99	1.00	0.01
24.11	157.11	0.62	1.90	1.00	0.02	24.16	153.82	0.56	2.02	1.00	0.01
24.24	156.98	0.61	1.91	1.00	0.02	24.29	160.28	0.68	1.71	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
24.36	160.33	0.68	1.71	1.00	0.01	24.42	158.67	0.64	1.81	1.00	0.01
24.49	156.47	0.60	1.95	1.00	0.02	24.55	153.21	0.55	2.03	1.00	0.02
24.67	141.16	0.41	2.22	1.00	0.03	24.73	134.13	0.35	2.35	1.00	0.02
24.78	126.94	0.31	2.50	1.00	0.01	24.86	121.09	0.28	2.63	1.00	0.03
24.88	122.04	0.29	2.61	1.00	0.00	25.00	122.79	0.29	2.59	1.00	0.04
25.04	123.87	0.29	2.57	1.00	0.01	25.08	125.31	0.30	2.53	1.00	0.01
25.16	126.87	0.31	2.50	1.00	0.02	25.23	126.71	0.31	2.50	1.00	0.02
25.27	126.07	0.30	2.52	1.00	0.01	25.35	125.48	0.30	2.53	1.00	0.02
25.44	124.44	0.30	2.55	1.00	0.03	25.48	122.69	0.29	2.59	1.00	0.01
25.56	115.35	0.26	2.77	1.00	0.03	25.63	105.55	0.23	3.04	1.00	0.02
25.68	100.82	0.22	3.19	1.00	0.02	25.76	32.38	2.00	0.00	1.00	0.00
25.80	30.93	2.00	0.00	1.00	0.00	25.88	30.47	2.00	0.00	1.00	0.00
25.93	33.74	2.00	0.00	1.00	0.00	26.01	105.74	0.23	3.03	1.00	0.03
26.06	110.60	0.24	2.89	1.00	0.02	26.12	114.47	0.25	2.79	1.00	0.02
26.19	119.52	0.27	2.67	1.00	0.02	26.29	123.10	0.29	2.58	1.00	0.03
26.39	126.01	0.30	2.52	1.00	0.03	26.43	127.74	0.31	2.48	1.00	0.01
26.47	129.03	0.32	2.45	1.00	0.01	26.57	131.02	0.33	2.41	1.00	0.03
26.62	132.04	0.34	2.39	1.00	0.01	26.67	132.73	0.34	2.38	1.00	0.01
26.72	133.20	0.34	2.37	1.00	0.01	26.81	133.52	0.35	2.36	1.00	0.03
26.87	133.75	0.35	2.36	1.00	0.02	26.93	134.23	0.35	2.35	1.00	0.02
26.99	134.97	0.36	2.34	1.00	0.02	27.06	135.94	0.36	2.32	1.00	0.02
27.11	136.68	0.37	2.30	1.00	0.01	27.17	137.52	0.37	2.29	1.00	0.02
27.24	138.32	0.38	2.27	1.00	0.02	27.37	137.54	0.37	2.29	1.00	0.03
27.42	134.39	0.35	2.35	1.00	0.02	27.50	128.51	0.31	2.47	1.00	0.02
27.60	126.94	0.31	2.50	1.00	0.03	27.68	126.93	0.31	2.50	1.00	0.02
27.80	105.48	0.23	3.04	1.00	0.04	27.85	105.18	0.23	3.05	1.00	0.02
27.98	111.16	0.24	2.88	1.00	0.05	28.03	113.63	0.25	2.81	1.00	0.02
28.06	120.44	0.28	2.64	1.00	0.01	28.16	120.10	0.27	2.65	1.00	0.03
28.21	122.92	0.29	2.59	1.00	0.02	28.25	126.59	0.30	2.51	1.00	0.01
28.33	130.46	0.33	2.43	1.00	0.02	28.36	131.40	0.33	2.41	1.00	0.01
28.45	134.43	0.35	2.35	1.00	0.03	28.56	137.49	0.37	2.29	1.00	0.03
28.60	137.93	0.38	2.28	1.00	0.01	28.65	137.62	0.37	2.29	1.00	0.01
28.68	136.99	0.37	2.30	1.00	0.01	28.78	134.06	0.35	2.35	1.00	0.03
28.82	132.23	0.34	2.39	1.00	0.01	28.92	128.67	0.31	2.46	1.00	0.03
28.97	127.57	0.31	2.49	1.00	0.02	29.02	127.51	0.31	2.49	1.00	0.01
29.07	128.51	0.31	2.47	1.00	0.02	29.17	128.09	0.31	2.47	1.00	0.03
29.22	125.57	0.30	2.53	1.00	0.02	29.27	122.81	0.29	2.59	1.00	0.01
29.35	121.90	0.28	2.61	1.00	0.03	29.45	127.06	0.31	2.50	1.00	0.03
29.50	127.75	0.31	2.48	1.00	0.01	29.59	119.13	0.27	2.68	1.00	0.03
29.66	110.71	0.24	2.89	1.00	0.02	29.70	100.79	0.21	3.19	1.00	0.02
29.75	33.26	2.00	0.00	1.00	0.00	29.84	25.01	2.00	0.00	1.00	0.00
29.91	22.67	2.00	0.00	1.00	0.00	29.96	20.00	2.00	0.00	1.00	0.00
30.01	16.95	2.00	0.00	1.00	0.00	30.12	12.04	2.00	0.00	1.00	0.00
30.17	10.44	2.00	0.00	1.00	0.00	30.23	9.31	2.00	0.00	1.00	0.00
30.28	8.67	2.00	0.00	1.00	0.00	30.34	8.27	2.00	0.00	1.00	0.00
30.45	7.94	2.00	0.00	1.00	0.00	30.49	7.94	2.00	0.00	1.00	0.00
30.53	7.93	2.00	0.00	1.00	0.00	30.60	7.93	2.00	0.00	1.00	0.00
30.66	7.60	2.00	0.00	1.00	0.00	30.71	7.51	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
30.80	7.67	2.00	0.00	1.00	0.00	30.87	7.82	2.00	0.00	1.00	0.00
30.93	8.06	2.00	0.00	1.00	0.00	30.97	8.13	2.00	0.00	1.00	0.00
31.07	8.59	2.00	0.00	1.00	0.00	31.11	7.48	2.00	0.00	1.00	0.00
31.21	9.21	2.00	0.00	1.00	0.00	31.25	9.29	2.00	0.00	1.00	0.00
31.31	9.36	2.00	0.00	1.00	0.00	31.37	9.51	2.00	0.00	1.00	0.00
31.43	9.82	2.00	0.00	1.00	0.00	31.51	10.13	2.00	0.00	1.00	0.00
31.58	9.73	2.00	0.00	1.00	0.00	31.64	10.35	2.00	0.00	1.00	0.00
31.70	9.87	2.00	0.00	1.00	0.00	31.77	9.70	2.00	0.00	1.00	0.00
31.82	9.78	2.00	0.00	1.00	0.00	31.91	9.92	2.00	0.00	1.00	0.00
31.98	9.92	2.00	0.00	1.00	0.00	32.05	9.91	2.00	0.00	1.00	0.00
32.13	10.37	2.00	0.00	1.00	0.00	32.17	10.67	2.00	0.00	1.00	0.00
32.24	10.90	2.00	0.00	1.00	0.00	32.32	11.20	2.00	0.00	1.00	0.00
32.36	11.20	2.00	0.00	1.00	0.00	32.43	11.19	2.00	0.00	1.00	0.00
32.50	11.18	2.00	0.00	1.00	0.00	32.58	9.77	2.00	0.00	1.00	0.00
32.65	8.99	2.00	0.00	1.00	0.00	32.70	8.75	2.00	0.00	1.00	0.00
32.81	8.04	2.00	0.00	1.00	0.00	32.87	8.03	2.00	0.00	1.00	0.00
32.92	7.95	2.00	0.00	1.00	0.00	32.99	8.25	2.00	0.00	1.00	0.00
33.05	8.56	2.00	0.00	1.00	0.00	33.11	8.71	2.00	0.00	1.00	0.00
33.17	9.09	2.00	0.00	1.00	0.00	33.23	9.16	2.00	0.00	1.00	0.00
33.29	9.15	2.00	0.00	1.00	0.00	33.36	9.15	2.00	0.00	1.00	0.00
33.42	9.21	2.00	0.00	1.00	0.00	33.49	9.29	2.00	0.00	1.00	0.00
33.55	9.36	2.00	0.00	1.00	0.00	33.61	9.51	2.00	0.00	1.00	0.00
33.66	9.42	2.00	0.00	1.00	0.00	33.73	9.26	2.00	0.00	1.00	0.00
33.79	9.03	2.00	0.00	1.00	0.00	33.92	8.86	2.00	0.00	1.00	0.00
33.93	8.63	2.00	0.00	1.00	0.00	33.99	8.89	2.00	0.00	1.00	0.00
34.06	8.92	2.00	0.00	1.00	0.00	34.14	10.14	2.00	0.00	1.00	0.00
34.21	12.51	2.00	0.00	1.00	0.00	34.33	14.64	2.00	0.00	1.00	0.00
34.38	14.25	2.00	0.00	1.00	0.00	34.44	13.78	2.00	0.00	1.00	0.00
34.50	13.16	2.00	0.00	1.00	0.00	34.54	12.84	2.00	0.00	1.00	0.00
34.58	12.60	2.00	0.00	1.00	0.00	34.68	12.67	2.00	0.00	1.00	0.00
34.73	13.80	2.00	0.00	1.00	0.00	34.83	17.07	2.00	0.00	1.00	0.00
34.89	18.90	2.00	0.00	1.00	0.00	34.93	20.19	2.00	0.00	1.00	0.00
34.98	21.25	2.00	0.00	1.00	0.00	35.11	26.87	2.00	0.00	1.00	0.00
35.17	31.46	2.00	0.00	1.00	0.00	35.22	35.98	2.00	0.00	1.00	0.00
35.27	104.32	0.22	3.08	1.00	0.02	35.31	114.18	0.25	2.80	1.00	0.01
35.47	142.41	0.41	2.20	1.00	0.04	35.51	140.65	0.39	2.23	1.00	0.01
35.55	134.89	0.35	2.34	1.00	0.01	35.61	137.09	0.36	2.30	1.00	0.01
35.66	134.92	0.35	2.34	1.00	0.02	35.72	138.26	0.37	2.27	1.00	0.02
35.83	145.48	0.44	2.15	1.00	0.03	35.90	152.36	0.52	2.04	1.00	0.02
35.95	156.58	0.58	1.94	1.00	0.01	36.01	160.01	0.65	1.73	1.00	0.01
36.05	160.97	0.66	1.67	1.00	0.01	36.11	157.76	0.60	1.86	1.00	0.01
36.17	154.63	0.55	2.00	1.00	0.01	36.27	152.00	0.51	2.04	1.00	0.03
36.33	151.94	0.51	2.05	1.00	0.01	36.39	151.95	0.51	2.04	1.00	0.01
36.43	152.22	0.52	2.04	1.00	0.01	36.49	152.56	0.52	2.04	1.00	0.01
36.60	153.16	0.53	2.03	1.00	0.03	36.65	152.71	0.52	2.03	1.00	0.01
36.71	155.33	0.56	1.99	1.00	0.01	36.78	143.68	0.42	2.18	1.00	0.02
36.82	137.48	0.37	2.29	1.00	0.01	36.89	131.42	0.33	2.41	1.00	0.02
36.96	129.66	0.32	2.44	1.00	0.02	37.02	135.91	0.36	2.32	1.00	0.02

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
37.10	149.96	0.49	2.08	1.00	0.02	37.16	158.90	0.62	1.79	1.00	0.01
37.23	167.77	0.83	1.12	1.00	0.01	37.28	173.70	1.04	0.71	1.00	0.00
37.38	185.64	1.74	0.12	1.00	0.00	37.42	189.32	2.00	0.00	1.00	0.00
37.47	193.23	2.00	0.00	1.00	0.00	37.56	198.63	2.00	0.00	1.00	0.00
37.65	199.65	2.00	0.00	1.00	0.00	37.69	198.56	2.00	0.00	1.00	0.00
37.73	196.93	2.00	0.00	1.00	0.00	37.81	192.86	2.00	0.00	1.00	0.00
37.91	186.19	1.78	0.09	1.00	0.00	37.99	179.80	1.33	0.38	1.00	0.00
38.04	171.50	0.95	0.85	1.00	0.01	38.11	165.91	0.78	1.27	1.00	0.01
38.17	163.72	0.73	1.48	1.00	0.01	38.22	165.96	0.78	1.27	1.00	0.01
38.29	167.26	0.82	1.16	1.00	0.01	38.35	166.04	0.79	1.26	1.00	0.01
38.40	163.76	0.73	1.47	1.00	0.01	38.52	156.27	0.58	1.96	1.00	0.03
38.59	155.78	0.57	1.99	1.00	0.02	38.65	151.05	0.50	2.06	1.00	0.02
38.79	149.44	0.48	2.08	1.00	0.03	38.83	151.92	0.51	2.05	1.00	0.01
38.90	156.60	0.59	1.94	1.00	0.02	38.96	161.54	0.68	1.64	1.00	0.01
39.02	165.97	0.78	1.26	1.00	0.01	39.09	152.03	0.52	2.04	1.00	0.02
39.14	143.58	0.42	2.18	1.00	0.01	39.20	142.04	0.41	2.21	1.00	0.02
39.27	141.95	0.41	2.21	1.00	0.02	39.34	142.27	0.41	2.20	1.00	0.02
39.40	141.03	0.40	2.22	1.00	0.02	39.45	144.04	0.43	2.17	1.00	0.01
39.52	140.89	0.40	2.23	1.00	0.02	39.58	141.34	0.40	2.22	1.00	0.02
39.69	148.50	0.47	2.10	1.00	0.03	39.71	149.59	0.49	2.08	1.00	0.00
39.80	155.80	0.57	1.99	1.00	0.02	39.84	157.76	0.61	1.86	1.00	0.01
39.92	162.22	0.69	1.60	1.00	0.02	39.98	163.71	0.73	1.47	1.00	0.01
40.03	164.45	0.75	1.40	1.00	0.01	40.13	164.10	0.74	1.43	1.00	0.02
40.18	163.63	0.73	1.48	1.00	0.01	40.27	161.75	0.68	1.63	1.00	0.02
40.35	158.93	0.63	1.79	1.00	0.02	40.40	157.13	0.60	1.90	1.00	0.01
40.44	154.57	0.55	2.01	1.00	0.01	40.54	148.12	0.47	2.11	1.00	0.02
40.59	144.47	0.43	2.17	1.00	0.01	40.67	139.14	0.38	2.26	1.00	0.02
40.72	136.96	0.37	2.30	1.00	0.01	40.78	133.63	0.34	2.36	1.00	0.02
40.82	131.28	0.33	2.41	1.00	0.01	40.93	125.88	0.30	2.52	1.00	0.03
40.97	123.24	0.29	2.58	1.00	0.01	41.06	120.63	0.28	2.64	1.00	0.03
41.10	119.41	0.27	2.67	1.00	0.02	41.16	116.88	0.26	2.73	1.00	0.02
41.23	113.53	0.25	2.82	1.00	0.02	41.28	111.11	0.24	2.88	1.00	0.02
41.35	109.79	0.24	2.92	1.00	0.02	41.41	111.10	0.24	2.88	1.00	0.02
41.47	110.28	0.24	2.90	1.00	0.02	41.54	111.37	0.24	2.87	1.00	0.02
41.66	129.81	0.32	2.44	1.00	0.03	41.72	138.47	0.38	2.27	1.00	0.02
41.78	117.51	0.27	2.72	1.00	0.02	41.85	107.93	0.23	2.97	1.00	0.02
41.90	112.30	0.25	2.85	1.00	0.02	41.97	117.81	0.27	2.71	1.00	0.02
42.03	120.41	0.28	2.65	1.00	0.02	42.08	121.71	0.28	2.61	1.00	0.02
42.14	130.95	0.33	2.42	1.00	0.02	42.20	144.89	0.44	2.16	1.00	0.02
42.28	150.93	0.51	2.06	1.00	0.02	42.33	148.22	0.47	2.10	1.00	0.01
42.41	136.20	0.36	2.31	1.00	0.02	42.51	118.04	0.27	2.70	1.00	0.03
42.59	37.73	2.00	0.00	1.00	0.00	42.66	33.77	2.00	0.00	1.00	0.00
42.70	32.47	2.00	0.00	1.00	0.00	42.77	30.88	2.00	0.00	1.00	0.00
42.82	34.42	2.00	0.00	1.00	0.00	42.87	104.89	0.23	3.06	1.00	0.02
42.92	112.59	0.25	2.84	1.00	0.02	42.98	117.79	0.27	2.71	1.00	0.02
43.09	120.90	0.28	2.63	1.00	0.03	43.17	117.96	0.27	2.70	1.00	0.02
43.23	116.58	0.26	2.74	1.00	0.02	43.30	114.61	0.26	2.79	1.00	0.02
43.35	111.66	0.25	2.87	1.00	0.02	43.43	105.89	0.23	3.03	1.00	0.03

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
43.48	99.45	0.21	3.23	1.00	0.02	43.53	32.44	2.00	0.00	1.00	0.00
43.61	28.12	2.00	0.00	1.00	0.00	43.65	25.59	2.00	0.00	1.00	0.00
43.72	22.99	2.00	0.00	1.00	0.00	43.78	19.93	2.00	0.00	1.00	0.00
43.85	18.25	2.00	0.00	1.00	0.00	43.91	17.34	2.00	0.00	1.00	0.00
43.97	16.16	2.00	0.00	1.00	0.00	44.09	15.31	2.00	0.00	1.00	0.00
44.15	15.78	2.00	0.00	1.00	0.00	44.22	15.84	2.00	0.00	1.00	0.00
44.26	15.43	2.00	0.00	1.00	0.00	44.32	15.36	2.00	0.00	1.00	0.00
44.39	14.73	2.00	0.00	1.00	0.00	44.44	17.18	2.00	0.00	1.00	0.00
44.53	16.82	2.00	0.00	1.00	0.00	44.58	16.00	2.00	0.00	1.00	0.00
44.62	15.96	2.00	0.00	1.00	0.00	44.71	15.91	2.00	0.00	1.00	0.00
44.75	17.75	2.00	0.00	1.00	0.00	44.84	19.30	2.00	0.00	1.00	0.00
44.88	19.09	2.00	0.00	1.00	0.00	44.97	18.26	2.00	0.00	1.00	0.00
45.02	18.87	2.00	0.00	1.00	0.00	45.12	20.01	2.00	0.00	1.00	0.00
45.19	20.89	2.00	0.00	1.00	0.00	45.24	21.70	2.00	0.00	1.00	0.00
45.28	22.45	2.00	0.00	1.00	0.00	45.40	24.22	2.00	0.00	1.00	0.00
45.45	24.75	2.00	0.00	1.00	0.00	45.50	25.36	2.00	0.00	1.00	0.00
45.54	26.11	2.00	0.00	1.00	0.00	45.64	26.22	2.00	0.00	1.00	0.00
45.69	27.39	2.00	0.00	1.00	0.00	45.81	29.71	2.00	0.00	1.00	0.00
45.85	31.72	2.00	0.00	1.00	0.00	45.89	34.21	2.00	0.00	1.00	0.00
45.94	37.54	2.00	0.00	1.00	0.00	46.04	52.90	2.00	0.00	1.00	0.00
46.10	130.69	0.33	2.42	1.00	0.02	46.15	140.42	0.40	2.24	1.00	0.01
46.20	144.01	0.43	2.17	1.00	0.01	46.29	131.42	0.34	2.41	1.00	0.03
46.44	129.03	0.32	2.45	1.00	0.04	46.49	118.43	0.27	2.69	1.00	0.01
46.55	124.61	0.30	2.55	1.00	0.02	46.60	128.99	0.32	2.46	1.00	0.01
46.64	130.09	0.33	2.43	1.00	0.01	46.70	123.63	0.30	2.57	1.00	0.02
46.75	123.92	0.30	2.56	1.00	0.02	46.80	125.03	0.30	2.54	1.00	0.01
46.86	125.22	0.30	2.54	1.00	0.02	46.95	120.00	0.28	2.66	1.00	0.03
47.05	111.97	0.25	2.86	1.00	0.03	47.11	107.04	0.24	3.00	1.00	0.02
47.17	103.98	0.23	3.09	1.00	0.02	47.21	99.27	0.22	3.24	1.00	0.02
47.30	28.41	2.00	0.00	1.00	0.00	47.36	24.21	2.00	0.00	1.00	0.00
47.39	19.51	2.00	0.00	1.00	0.00	47.47	16.83	2.00	0.00	1.00	0.00
47.51	15.89	2.00	0.00	1.00	0.00	47.61	16.27	2.00	0.00	1.00	0.00
47.66	17.80	2.00	0.00	1.00	0.00	47.76	19.58	2.00	0.00	1.00	0.00
47.81	19.64	2.00	0.00	1.00	0.00	47.85	21.97	2.00	0.00	1.00	0.00
47.95	26.12	2.00	0.00	1.00	0.00	48.01	26.84	2.00	0.00	1.00	0.00
48.06	26.68	2.00	0.00	1.00	0.00	48.11	25.53	2.00	0.00	1.00	0.00
48.16	24.04	2.00	0.00	1.00	0.00	48.25	20.55	2.00	0.00	1.00	0.00
48.31	18.87	2.00	0.00	1.00	0.00	48.39	18.32	2.00	0.00	1.00	0.00
48.46	22.38	2.00	0.00	1.00	0.00	48.52	29.36	2.00	0.00	1.00	0.00
48.60	110.57	0.25	2.90	1.00	0.03	48.65	120.89	0.29	2.63	1.00	0.02
48.70	132.13	0.34	2.39	1.00	0.02	48.81	145.24	0.45	2.15	1.00	0.03
48.87	148.94	0.49	2.09	1.00	0.01	48.91	151.86	0.53	2.05	1.00	0.01
48.96	153.32	0.55	2.02	1.00	0.01	49.06	156.49	0.60	1.94	1.00	0.02
49.12	155.77	0.58	1.99	1.00	0.01	49.17	152.78	0.54	2.03	1.00	0.01
49.22	148.24	0.48	2.10	1.00	0.01	49.32	144.43	0.44	2.17	1.00	0.02
49.39	141.03	0.41	2.22	1.00	0.02	49.43	138.42	0.39	2.27	1.00	0.01
49.48	137.14	0.38	2.30	1.00	0.01	49.58	130.21	0.33	2.43	1.00	0.03
49.64	126.81	0.31	2.50	1.00	0.02	49.68	118.85	0.28	2.68	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
49.78	119.72	0.28	2.66	1.00	0.03	49.83	114.94	0.26	2.78	1.00	0.02
49.93	45.58	2.00	0.00	1.00	0.00	49.97	42.86	2.00	0.00	1.00	0.00
50.01	39.54	2.00	0.00	1.00	0.00	50.09	31.88	2.00	0.00	1.00	0.00
50.13	28.63	2.00	0.00	1.00	0.00	50.22	22.95	2.00	0.00	1.00	0.00

Total estimated settlement: 7.62

Abbreviations

$Q_{tn,cs}$:	Equivalent clean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

:: Post-earthquake settlement due to soil liquefaction ::

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
5.04	153.24	0.92	1.07	1.00	0.02	5.09	152.25	0.89	1.16	1.00	0.01
5.16	152.18	0.88	1.18	1.00	0.01	5.27	151.76	0.86	1.24	1.00	0.02
5.35	149.99	0.82	1.42	1.00	0.01	5.39	148.23	0.78	1.61	1.00	0.01
5.48	145.62	0.73	1.98	1.00	0.02	5.52	142.36	0.67	2.20	1.00	0.01
5.59	139.79	0.63	2.25	1.00	0.02	5.65	137.53	0.60	2.29	1.00	0.02
5.71	135.23	0.57	2.33	1.00	0.02	5.83	132.16	0.53	2.39	1.00	0.03
5.92	130.90	0.52	2.42	1.00	0.02	5.96	130.53	0.51	2.42	1.00	0.01
6.03	129.99	0.50	2.43	1.00	0.02	6.09	129.61	0.50	2.44	1.00	0.02
6.15	128.80	0.49	2.46	1.00	0.02	6.23	127.57	0.48	2.49	1.00	0.02
6.29	126.52	0.46	2.51	1.00	0.02	6.36	125.77	0.46	2.52	1.00	0.02
6.41	125.02	0.45	2.54	1.00	0.02	6.49	123.41	0.44	2.58	1.00	0.02
6.54	122.29	0.43	2.60	1.00	0.02	6.62	120.73	0.41	2.64	1.00	0.03
6.67	120.14	0.41	2.65	1.00	0.01	6.73	119.66	0.41	2.66	1.00	0.02
6.80	117.61	0.39	2.71	1.00	0.02	6.86	114.34	0.37	2.80	1.00	0.02
6.93	109.92	0.35	2.91	1.00	0.03	6.99	103.38	0.32	3.11	1.00	0.02
7.06	96.92	0.30	3.32	1.00	0.03	7.11	90.34	0.28	3.56	1.00	0.02
7.20	85.02	0.27	3.78	1.00	0.04	7.25	82.15	0.26	3.91	1.00	0.02
7.29	83.52	0.26	3.85	1.00	0.02	7.36	84.66	0.26	3.79	1.00	0.04
7.46	84.29	0.26	3.81	1.00	0.05	7.52	86.25	0.26	3.73	1.00	0.03
7.58	89.49	0.27	3.59	1.00	0.03	7.64	92.16	0.28	3.49	1.00	0.02
7.70	94.06	0.28	3.42	1.00	0.03	7.77	95.63	0.28	3.36	1.00	0.03
7.81	96.70	0.29	3.32	1.00	0.02	7.90	98.30	0.29	3.27	1.00	0.03
7.95	99.29	0.29	3.24	1.00	0.02	8.01	100.37	0.30	3.20	1.00	0.02
8.08	101.29	0.30	3.17	1.00	0.03	8.19	100.77	0.29	3.19	1.00	0.04
8.25	100.04	0.29	3.21	1.00	0.03	8.32	98.83	0.29	3.25	1.00	0.03
8.38	97.10	0.28	3.31	1.00	0.02	8.44	95.06	0.27	3.38	1.00	0.02
8.52	92.46	0.27	3.48	1.00	0.03	8.56	92.19	0.26	3.49	1.00	0.02
8.65	91.22	0.26	3.53	1.00	0.04	8.70	90.84	0.26	3.54	1.00	0.02
8.77	99.65	0.28	3.22	1.00	0.03	8.82	101.96	0.29	3.15	1.00	0.02
8.95	99.02	0.28	3.25	1.00	0.05	9.00	103.94	0.29	3.09	1.00	0.02
9.09	107.13	0.30	2.99	1.00	0.03	9.13	108.96	0.31	2.94	1.00	0.02
9.20	110.12	0.31	2.91	1.00	0.02	9.26	111.18	0.32	2.88	1.00	0.02
9.32	111.04	0.32	2.88	1.00	0.02	9.39	110.25	0.31	2.90	1.00	0.02
9.44	109.19	0.31	2.93	1.00	0.02	9.52	108.48	0.30	2.95	1.00	0.03
9.57	107.94	0.30	2.97	1.00	0.02	9.75	105.00	0.29	3.06	1.00	0.06
9.82	104.88	0.29	3.06	1.00	0.02	9.88	104.91	0.29	3.06	1.00	0.02
9.97	106.06	0.29	3.02	1.00	0.03	10.07	113.29	0.32	2.82	1.00	0.04
10.15	117.58	0.34	2.71	1.00	0.02	10.20	109.27	0.30	2.93	1.00	0.02
10.28	102.64	0.28	3.13	1.00	0.03	10.32	97.25	0.26	3.31	1.00	0.02
10.40	90.32	0.24	3.56	1.00	0.03	10.46	84.42	0.23	3.81	1.00	0.02
10.50	20.37	2.00	0.00	1.00	0.00	10.51	17.89	2.00	0.00	1.00	0.00
10.59	18.22	2.00	0.00	1.00	0.00	10.64	16.80	2.00	0.00	1.00	0.00
10.73	13.91	2.00	0.00	1.00	0.00	10.79	13.05	2.00	0.00	1.00	0.00
10.84	13.17	2.00	0.00	1.00	0.00	10.90	12.80	2.00	0.00	1.00	0.00
10.99	12.06	2.00	0.00	1.00	0.00	11.06	11.45	2.00	0.00	1.00	0.00
11.12	10.83	2.00	0.00	1.00	0.00	11.16	10.33	2.00	0.00	1.00	0.00
11.27	10.71	2.00	0.00	1.00	0.00	11.31	10.65	2.00	0.00	1.00	0.00
11.38	11.22	2.00	0.00	1.00	0.00	11.43	11.92	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
11.58	13.51	2.00	0.00	1.00	0.00	11.65	13.84	2.00	0.00	1.00	0.00
11.70	13.82	2.00	0.00	1.00	0.00	11.74	13.80	2.00	0.00	1.00	0.00
11.79	13.79	2.00	0.00	1.00	0.00	11.84	14.47	2.00	0.00	1.00	0.00
11.91	15.60	2.00	0.00	1.00	0.00	11.95	17.30	2.00	0.00	1.00	0.00
12.01	18.54	2.00	0.00	1.00	0.00	12.09	19.29	2.00	0.00	1.00	0.00
12.21	19.12	2.00	0.00	1.00	0.00	12.27	19.31	2.00	0.00	1.00	0.00
12.35	19.84	2.00	0.00	1.00	0.00	12.40	20.27	2.00	0.00	1.00	0.00
12.45	21.35	2.00	0.00	1.00	0.00	12.53	22.98	2.00	0.00	1.00	0.00
12.60	23.83	2.00	0.00	1.00	0.00	12.72	22.67	2.00	0.00	1.00	0.00
12.79	22.18	2.00	0.00	1.00	0.00	12.84	78.45	0.20	4.08	1.00	0.02
12.89	78.58	0.20	4.08	1.00	0.03	12.97	79.48	0.20	4.03	1.00	0.04
13.03	81.63	0.20	3.93	1.00	0.03	13.10	83.30	0.21	3.86	1.00	0.03
13.15	82.30	0.20	3.90	1.00	0.02	13.20	79.73	0.20	4.02	1.00	0.02
13.27	76.46	0.19	4.19	1.00	0.04	13.32	17.60	2.00	0.00	1.00	0.00
13.45	12.95	2.00	0.00	1.00	0.00	13.50	12.50	2.00	0.00	1.00	0.00
13.57	11.92	2.00	0.00	1.00	0.00	13.63	10.89	2.00	0.00	1.00	0.00
13.68	10.20	2.00	0.00	1.00	0.00	13.75	10.08	2.00	0.00	1.00	0.00
13.87	9.84	2.00	0.00	1.00	0.00	13.94	9.83	2.00	0.00	1.00	0.00
13.99	9.82	2.00	0.00	1.00	0.00	14.06	9.81	2.00	0.00	1.00	0.00
14.11	10.02	2.00	0.00	1.00	0.00	14.19	10.23	2.00	0.00	1.00	0.00
14.24	10.78	2.00	0.00	1.00	0.00	14.31	12.01	2.00	0.00	1.00	0.00
14.37	12.09	2.00	0.00	1.00	0.00	14.43	12.74	2.00	0.00	1.00	0.00
14.51	13.29	2.00	0.00	1.00	0.00	14.55	14.94	2.00	0.00	1.00	0.00
14.62	14.70	2.00	0.00	1.00	0.00	14.68	15.02	2.00	0.00	1.00	0.00
14.76	14.55	2.00	0.00	1.00	0.00	14.82	14.20	2.00	0.00	1.00	0.00
14.89	13.85	2.00	0.00	1.00	0.00	14.95	13.29	2.00	0.00	1.00	0.00
15.07	12.59	2.00	0.00	1.00	0.00	15.13	12.25	2.00	0.00	1.00	0.00
15.21	11.68	2.00	0.00	1.00	0.00	15.26	10.89	2.00	0.00	1.00	0.00
15.32	11.71	2.00	0.00	1.00	0.00	15.39	11.43	2.00	0.00	1.00	0.00
15.44	11.75	2.00	0.00	1.00	0.00	15.49	12.07	2.00	0.00	1.00	0.00
15.56	11.73	2.00	0.00	1.00	0.00	15.61	11.72	2.00	0.00	1.00	0.00
15.69	11.38	2.00	0.00	1.00	0.00	15.74	11.14	2.00	0.00	1.00	0.00
15.82	10.69	2.00	0.00	1.00	0.00	15.87	10.24	2.00	0.00	1.00	0.00
15.94	10.12	2.00	0.00	1.00	0.00	16.05	9.67	2.00	0.00	1.00	0.00
16.13	9.21	2.00	0.00	1.00	0.00	16.18	8.77	2.00	0.00	1.00	0.00
16.24	8.43	2.00	0.00	1.00	0.00	16.31	8.52	2.00	0.00	1.00	0.00
16.38	7.97	2.00	0.00	1.00	0.00	16.42	8.08	2.00	0.00	1.00	0.00
16.52	8.06	2.00	0.00	1.00	0.00	16.56	8.06	2.00	0.00	1.00	0.00
16.62	8.59	2.00	0.00	1.00	0.00	16.69	8.47	2.00	0.00	1.00	0.00
16.74	8.46	2.00	0.00	1.00	0.00	16.86	8.67	2.00	0.00	1.00	0.00
16.93	8.76	2.00	0.00	1.00	0.00	17.00	8.97	2.00	0.00	1.00	0.00
17.05	9.29	2.00	0.00	1.00	0.00	17.13	9.60	2.00	0.00	1.00	0.00
17.18	9.69	2.00	0.00	1.00	0.00	17.24	10.32	2.00	0.00	1.00	0.00
17.30	11.07	2.00	0.00	1.00	0.00	17.36	11.69	2.00	0.00	1.00	0.00
17.43	12.40	2.00	0.00	1.00	0.00	17.48	13.66	2.00	0.00	1.00	0.00
17.54	14.79	2.00	0.00	1.00	0.00	17.61	15.60	2.00	0.00	1.00	0.00
17.66	15.90	2.00	0.00	1.00	0.00	17.73	17.13	2.00	0.00	1.00	0.00
17.79	18.55	2.00	0.00	1.00	0.00	17.92	17.78	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
17.98	18.06	2.00	0.00	1.00	0.00	18.05	19.67	2.00	0.00	1.00	0.00
18.11	20.99	2.00	0.00	1.00	0.00	18.18	22.58	2.00	0.00	1.00	0.00
18.23	26.51	2.00	0.00	1.00	0.00	18.28	92.45	0.20	3.48	1.00	0.02
18.36	96.90	0.21	3.32	1.00	0.03	18.45	92.52	0.20	3.48	1.00	0.03
18.51	22.63	2.00	0.00	1.00	0.00	18.58	17.11	2.00	0.00	1.00	0.00
18.63	13.93	2.00	0.00	1.00	0.00	18.71	11.13	2.00	0.00	1.00	0.00
18.76	9.68	2.00	0.00	1.00	0.00	18.83	9.46	2.00	0.00	1.00	0.00
18.89	9.76	2.00	0.00	1.00	0.00	18.95	9.85	2.00	0.00	1.00	0.00
19.02	10.25	2.00	0.00	1.00	0.00	19.08	10.86	2.00	0.00	1.00	0.00
19.15	11.76	2.00	0.00	1.00	0.00	19.20	12.87	2.00	0.00	1.00	0.00
19.27	14.48	2.00	0.00	1.00	0.00	19.33	15.98	2.00	0.00	1.00	0.00
19.41	16.78	2.00	0.00	1.00	0.00	19.46	19.07	2.00	0.00	1.00	0.00
19.54	22.52	2.00	0.00	1.00	0.00	19.63	22.26	2.00	0.00	1.00	0.00
19.67	27.97	2.00	0.00	1.00	0.00	19.73	92.14	0.20	3.49	1.00	0.02
19.78	94.17	0.20	3.41	1.00	0.02	19.84	95.38	0.21	3.37	1.00	0.03
19.89	96.08	0.21	3.35	1.00	0.02	20.02	97.41	0.21	3.30	1.00	0.05
20.07	98.19	0.21	3.27	1.00	0.02	20.15	98.40	0.21	3.27	1.00	0.03
20.20	98.94	0.21	3.25	1.00	0.02	20.28	99.78	0.22	3.22	1.00	0.03
20.33	101.14	0.22	3.18	1.00	0.02	20.41	102.84	0.22	3.12	1.00	0.03
20.46	104.76	0.23	3.06	1.00	0.02	20.53	106.10	0.23	3.02	1.00	0.02
20.58	106.57	0.23	3.01	1.00	0.02	20.64	107.15	0.24	2.99	1.00	0.02
20.69	107.72	0.24	2.98	1.00	0.02	20.77	107.56	0.24	2.98	1.00	0.03
20.83	107.57	0.24	2.98	1.00	0.02	20.90	108.20	0.24	2.96	1.00	0.02
21.03	110.47	0.24	2.90	1.00	0.05	21.08	110.80	0.25	2.89	1.00	0.02
21.15	110.16	0.24	2.91	1.00	0.03	21.21	110.10	0.24	2.91	1.00	0.02
21.34	108.54	0.24	2.95	1.00	0.05	21.39	109.13	0.24	2.94	1.00	0.02
21.46	109.14	0.24	2.94	1.00	0.03	21.52	108.56	0.24	2.95	1.00	0.02
21.59	108.41	0.24	2.96	1.00	0.03	21.65	108.32	0.24	2.96	1.00	0.02
21.72	108.16	0.24	2.96	1.00	0.02	21.78	108.90	0.24	2.94	1.00	0.02
21.83	108.29	0.24	2.96	1.00	0.02	21.91	106.44	0.23	3.01	1.00	0.03
21.97	104.86	0.23	3.06	1.00	0.02	22.05	105.21	0.23	3.05	1.00	0.03
22.10	104.73	0.23	3.06	1.00	0.02	22.17	103.25	0.22	3.11	1.00	0.02
22.22	100.30	0.21	3.20	1.00	0.02	22.31	96.63	0.21	3.33	1.00	0.03
22.35	93.41	0.20	3.44	1.00	0.02	22.42	90.37	0.19	3.56	1.00	0.03
22.49	27.53	2.00	0.00	1.00	0.00	22.53	22.34	2.00	0.00	1.00	0.00
22.60	27.95	2.00	0.00	1.00	0.00	22.66	23.05	2.00	0.00	1.00	0.00
22.72	28.37	2.00	0.00	1.00	0.00	22.84	102.39	0.22	3.14	1.00	0.04
22.88	106.47	0.23	3.01	1.00	0.02	22.94	107.08	0.23	2.99	1.00	0.02
23.00	105.17	0.23	3.05	1.00	0.02	23.05	102.05	0.22	3.15	1.00	0.02
23.19	28.86	2.00	0.00	1.00	0.00	23.23	24.30	2.00	0.00	1.00	0.00
23.27	20.84	2.00	0.00	1.00	0.00	23.32	18.12	2.00	0.00	1.00	0.00
23.37	15.39	2.00	0.00	1.00	0.00	23.45	13.39	2.00	0.00	1.00	0.00
23.54	11.97	2.00	0.00	1.00	0.00	23.58	11.59	2.00	0.00	1.00	0.00
23.65	11.02	2.00	0.00	1.00	0.00	23.71	10.54	2.00	0.00	1.00	0.00
23.76	10.05	2.00	0.00	1.00	0.00	23.86	8.91	2.00	0.00	1.00	0.00
23.94	8.82	2.00	0.00	1.00	0.00	24.06	9.17	2.00	0.00	1.00	0.00
24.12	9.27	2.00	0.00	1.00	0.00	24.17	9.44	2.00	0.00	1.00	0.00
24.24	9.72	2.00	0.00	1.00	0.00	24.32	10.19	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
24.37	10.36	2.00	0.00	1.00	0.00	24.42	10.45	2.00	0.00	1.00	0.00
24.51	10.44	2.00	0.00	1.00	0.00	24.55	10.62	2.00	0.00	1.00	0.00
24.62	10.60	2.00	0.00	1.00	0.00	24.69	10.69	2.00	0.00	1.00	0.00
24.74	10.68	2.00	0.00	1.00	0.00	24.82	10.85	2.00	0.00	1.00	0.00
24.86	11.12	2.00	0.00	1.00	0.00	24.94	11.84	2.00	0.00	1.00	0.00
25.06	14.11	2.00	0.00	1.00	0.00	25.12	17.51	2.00	0.00	1.00	0.00
25.20	21.58	2.00	0.00	1.00	0.00	25.26	86.03	0.18	3.74	1.00	0.03
25.32	92.21	0.19	3.49	1.00	0.02	25.39	97.99	0.20	3.28	1.00	0.03
25.41	96.43	0.20	3.33	1.00	0.01	25.49	103.03	0.22	3.12	1.00	0.03
25.55	104.56	0.22	3.07	1.00	0.02	25.63	108.94	0.23	2.94	1.00	0.03
25.68	111.28	0.24	2.88	1.00	0.02	25.75	114.10	0.25	2.80	1.00	0.02
25.85	119.65	0.27	2.66	1.00	0.03	25.90	122.05	0.28	2.61	1.00	0.01
25.94	123.88	0.29	2.57	1.00	0.01	25.99	124.14	0.29	2.56	1.00	0.02
26.11	108.73	0.23	2.95	1.00	0.04	26.16	102.92	0.22	3.12	1.00	0.02
26.21	102.04	0.21	3.15	1.00	0.02	26.26	102.60	0.21	3.13	1.00	0.02
26.32	104.40	0.22	3.07	1.00	0.03	26.38	105.98	0.22	3.03	1.00	0.02
26.48	102.26	0.21	3.14	1.00	0.04	26.53	98.67	0.21	3.26	1.00	0.02
26.65	92.02	0.19	3.49	1.00	0.05	26.69	89.14	0.19	3.61	1.00	0.02
26.76	85.70	0.18	3.75	1.00	0.03	26.81	23.42	2.00	0.00	1.00	0.00
26.86	19.48	2.00	0.00	1.00	0.00	26.93	16.08	2.00	0.00	1.00	0.00
26.99	13.57	2.00	0.00	1.00	0.00	27.04	12.05	2.00	0.00	1.00	0.00
27.16	9.71	2.00	0.00	1.00	0.00	27.22	9.07	2.00	0.00	1.00	0.00
27.28	8.53	2.00	0.00	1.00	0.00	27.35	8.61	2.00	0.00	1.00	0.00
27.39	8.61	2.00	0.00	1.00	0.00	27.44	9.31	2.00	0.00	1.00	0.00
27.52	9.74	2.00	0.00	1.00	0.00	27.57	9.83	2.00	0.00	1.00	0.00
27.63	9.99	2.00	0.00	1.00	0.00	27.70	9.98	2.00	0.00	1.00	0.00
27.77	9.97	2.00	0.00	1.00	0.00	27.84	9.96	2.00	0.00	1.00	0.00
27.90	10.04	2.00	0.00	1.00	0.00	27.96	10.21	2.00	0.00	1.00	0.00
28.10	10.72	2.00	0.00	1.00	0.00	28.14	11.41	2.00	0.00	1.00	0.00
28.22	11.76	2.00	0.00	1.00	0.00	28.27	12.10	2.00	0.00	1.00	0.00
28.34	12.36	2.00	0.00	1.00	0.00	28.40	12.34	2.00	0.00	1.00	0.00
28.45	11.28	2.00	0.00	1.00	0.00	28.51	10.66	2.00	0.00	1.00	0.00
28.57	10.91	2.00	0.00	1.00	0.00	28.65	10.90	2.00	0.00	1.00	0.00
28.70	10.89	2.00	0.00	1.00	0.00	28.74	10.88	2.00	0.00	1.00	0.00
28.82	10.87	2.00	0.00	1.00	0.00	28.88	10.51	2.00	0.00	1.00	0.00
28.97	10.06	2.00	0.00	1.00	0.00	29.00	9.80	2.00	0.00	1.00	0.00
29.09	9.62	2.00	0.00	1.00	0.00	29.17	9.17	2.00	0.00	1.00	0.00
29.22	9.34	2.00	0.00	1.00	0.00	29.27	9.33	2.00	0.00	1.00	0.00
29.34	9.41	2.00	0.00	1.00	0.00	29.44	9.22	2.00	0.00	1.00	0.00
29.52	8.87	2.00	0.00	1.00	0.00	29.57	8.68	2.00	0.00	1.00	0.00
29.70	8.50	2.00	0.00	1.00	0.00	29.76	8.40	2.00	0.00	1.00	0.00
29.83	8.23	2.00	0.00	1.00	0.00	29.88	8.13	2.00	0.00	1.00	0.00
29.97	8.12	2.00	0.00	1.00	0.00	30.01	8.04	2.00	0.00	1.00	0.00
30.10	8.03	2.00	0.00	1.00	0.00	30.14	8.03	2.00	0.00	1.00	0.00
30.21	8.19	2.00	0.00	1.00	0.00	30.27	8.53	2.00	0.00	1.00	0.00
30.41	8.85	2.00	0.00	1.00	0.00	30.45	8.77	2.00	0.00	1.00	0.00
30.54	8.58	2.00	0.00	1.00	0.00	30.59	8.58	2.00	0.00	1.00	0.00
30.66	8.91	2.00	0.00	1.00	0.00	30.72	9.33	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
30.80	9.41	2.00	0.00	1.00	0.00	30.85	9.41	2.00	0.00	1.00	0.00
30.92	9.40	2.00	0.00	1.00	0.00	30.98	9.73	2.00	0.00	1.00	0.00
31.06	10.40	2.00	0.00	1.00	0.00	31.11	11.16	2.00	0.00	1.00	0.00
31.20	11.31	2.00	0.00	1.00	0.00	31.24	11.65	2.00	0.00	1.00	0.00
31.31	11.72	2.00	0.00	1.00	0.00	31.37	11.12	2.00	0.00	1.00	0.00
31.50	10.67	2.00	0.00	1.00	0.00	31.56	10.75	2.00	0.00	1.00	0.00
31.60	10.66	2.00	0.00	1.00	0.00	31.64	9.98	2.00	0.00	1.00	0.00
31.72	10.56	2.00	0.00	1.00	0.00	31.78	10.47	2.00	0.00	1.00	0.00
31.86	10.46	2.00	0.00	1.00	0.00	31.89	10.37	2.00	0.00	1.00	0.00
32.00	9.68	2.00	0.00	1.00	0.00	32.03	9.42	2.00	0.00	1.00	0.00
32.12	9.34	2.00	0.00	1.00	0.00	32.17	9.33	2.00	0.00	1.00	0.00
32.26	9.07	2.00	0.00	1.00	0.00	32.31	9.06	2.00	0.00	1.00	0.00
32.39	9.05	2.00	0.00	1.00	0.00	32.44	9.05	2.00	0.00	1.00	0.00
32.51	9.29	2.00	0.00	1.00	0.00	32.56	9.20	2.00	0.00	1.00	0.00
32.70	10.68	2.00	0.00	1.00	0.00	32.74	11.68	2.00	0.00	1.00	0.00
32.80	12.58	2.00	0.00	1.00	0.00	32.85	13.57	2.00	0.00	1.00	0.00
32.91	14.13	2.00	0.00	1.00	0.00	32.98	14.78	2.00	0.00	1.00	0.00
33.05	15.26	2.00	0.00	1.00	0.00	33.09	15.18	2.00	0.00	1.00	0.00
33.17	15.08	2.00	0.00	1.00	0.00	33.22	14.57	2.00	0.00	1.00	0.00
33.27	13.81	2.00	0.00	1.00	0.00	33.40	12.80	2.00	0.00	1.00	0.00
33.49	10.89	2.00	0.00	1.00	0.00	33.53	10.56	2.00	0.00	1.00	0.00
33.62	10.37	2.00	0.00	1.00	0.00	33.66	10.37	2.00	0.00	1.00	0.00
33.75	10.35	2.00	0.00	1.00	0.00	33.81	10.35	2.00	0.00	1.00	0.00
33.90	10.34	2.00	0.00	1.00	0.00	33.94	10.33	2.00	0.00	1.00	0.00
34.03	10.81	2.00	0.00	1.00	0.00	34.09	11.29	2.00	0.00	1.00	0.00
34.15	11.70	2.00	0.00	1.00	0.00	34.20	11.20	2.00	0.00	1.00	0.00
34.28	12.00	2.00	0.00	1.00	0.00	34.35	12.08	2.00	0.00	1.00	0.00
34.39	11.66	2.00	0.00	1.00	0.00	34.48	11.81	2.00	0.00	1.00	0.00
34.57	13.02	2.00	0.00	1.00	0.00	34.62	13.66	2.00	0.00	1.00	0.00
34.69	15.18	2.00	0.00	1.00	0.00	34.74	16.15	2.00	0.00	1.00	0.00
34.78	17.52	2.00	0.00	1.00	0.00	34.86	21.16	2.00	0.00	1.00	0.00
34.91	22.59	2.00	0.00	1.00	0.00	35.00	25.24	2.00	0.00	1.00	0.00
35.05	26.11	2.00	0.00	1.00	0.00	35.13	27.54	2.00	0.00	1.00	0.00
35.18	27.44	2.00	0.00	1.00	0.00	35.26	23.77	2.00	0.00	1.00	0.00
35.31	21.58	2.00	0.00	1.00	0.00	35.40	19.06	2.00	0.00	1.00	0.00
35.44	21.74	2.00	0.00	1.00	0.00	35.53	20.30	2.00	0.00	1.00	0.00
35.58	21.89	2.00	0.00	1.00	0.00	35.67	24.52	2.00	0.00	1.00	0.00
35.75	26.74	2.00	0.00	1.00	0.00	35.78	27.53	2.00	0.00	1.00	0.00
35.83	28.72	2.00	0.00	1.00	0.00	35.92	29.41	2.00	0.00	1.00	0.00
36.01	28.00	2.00	0.00	1.00	0.00	36.05	28.07	2.00	0.00	1.00	0.00
36.09	28.05	2.00	0.00	1.00	0.00	36.17	28.11	2.00	0.00	1.00	0.00
36.24	28.32	2.00	0.00	1.00	0.00	36.31	28.21	2.00	0.00	1.00	0.00
36.36	28.75	2.00	0.00	1.00	0.00	36.44	29.51	2.00	0.00	1.00	0.00
36.50	29.57	2.00	0.00	1.00	0.00	36.57	30.02	2.00	0.00	1.00	0.00
36.66	33.01	2.00	0.00	1.00	0.00	36.71	35.69	2.00	0.00	1.00	0.00
36.77	102.63	0.21	3.13	1.00	0.02	36.84	109.30	0.23	2.93	1.00	0.02
36.93	124.30	0.28	2.56	1.00	0.03	37.02	125.57	0.29	2.53	1.00	0.03
37.07	123.60	0.28	2.57	1.00	0.02	37.10	123.73	0.28	2.57	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
37.19	119.47	0.26	2.67	1.00	0.03	37.22	118.10	0.26	2.70	1.00	0.01
37.29	119.48	0.26	2.67	1.00	0.02	37.34	122.02	0.27	2.61	1.00	0.02
37.44	130.41	0.31	2.43	1.00	0.03	37.51	135.02	0.34	2.34	1.00	0.02
37.56	134.31	0.34	2.35	1.00	0.01	37.61	130.35	0.31	2.43	1.00	0.01
37.73	116.91	0.25	2.73	1.00	0.04	37.78	110.91	0.23	2.89	1.00	0.02
37.84	106.84	0.22	3.00	1.00	0.02	37.91	40.87	2.00	0.00	1.00	0.00
37.97	38.32	2.00	0.00	1.00	0.00	38.05	37.41	2.00	0.00	1.00	0.00
38.09	99.53	0.21	3.23	1.00	0.02	38.17	99.42	0.21	3.23	1.00	0.03
38.22	100.37	0.21	3.20	1.00	0.02	38.27	100.89	0.21	3.18	1.00	0.02
38.34	101.20	0.21	3.17	1.00	0.03	38.40	100.88	0.21	3.18	1.00	0.02
38.46	101.02	0.21	3.18	1.00	0.02	38.53	100.61	0.21	3.19	1.00	0.03
38.65	99.36	0.21	3.23	1.00	0.05	38.71	99.18	0.21	3.24	1.00	0.02
38.76	98.51	0.20	3.26	1.00	0.02	38.84	98.01	0.20	3.28	1.00	0.03
38.89	97.59	0.20	3.29	1.00	0.02	38.97	96.89	0.20	3.32	1.00	0.03
39.01	96.62	0.20	3.33	1.00	0.02	39.08	96.57	0.20	3.33	1.00	0.03
39.14	97.08	0.20	3.31	1.00	0.03	39.20	97.55	0.20	3.30	1.00	0.02
39.28	97.99	0.20	3.28	1.00	0.03	39.34	97.75	0.20	3.29	1.00	0.03
39.41	98.85	0.20	3.25	1.00	0.03	39.48	102.79	0.21	3.12	1.00	0.03
39.54	109.52	0.23	2.92	1.00	0.02	39.59	118.13	0.26	2.70	1.00	0.02
39.67	124.05	0.28	2.56	1.00	0.02	39.72	127.55	0.30	2.49	1.00	0.01
39.80	129.75	0.31	2.44	1.00	0.02	39.85	130.65	0.32	2.42	1.00	0.01
39.92	131.73	0.32	2.40	1.00	0.02	39.98	132.05	0.33	2.39	1.00	0.02
40.04	131.92	0.32	2.40	1.00	0.02	40.10	132.99	0.33	2.37	1.00	0.02
40.18	135.06	0.34	2.33	1.00	0.02	40.29	136.38	0.35	2.31	1.00	0.03
40.35	137.30	0.36	2.29	1.00	0.02	40.41	137.26	0.36	2.29	1.00	0.02
40.48	137.26	0.36	2.29	1.00	0.02	40.53	136.95	0.36	2.30	1.00	0.01
40.59	137.04	0.36	2.30	1.00	0.02	40.66	138.83	0.37	2.26	1.00	0.02
40.71	142.53	0.40	2.20	1.00	0.01	40.76	152.00	0.51	2.04	1.00	0.01
40.84	157.87	0.60	1.85	1.00	0.02	40.88	157.15	0.58	1.90	1.00	0.01
40.95	156.79	0.58	1.92	1.00	0.02	41.01	156.98	0.58	1.91	1.00	0.01
41.13	157.16	0.58	1.90	1.00	0.03	41.19	158.57	0.61	1.81	1.00	0.01
41.25	158.20	0.60	1.83	1.00	0.01	41.31	159.98	0.64	1.73	1.00	0.01
41.37	160.41	0.64	1.70	1.00	0.01	41.43	159.06	0.62	1.78	1.00	0.01
41.54	151.45	0.50	2.05	1.00	0.03	41.61	148.37	0.46	2.10	1.00	0.02
41.67	145.43	0.43	2.15	1.00	0.02	41.72	144.18	0.42	2.17	1.00	0.01
41.79	143.93	0.42	2.17	1.00	0.02	41.85	144.15	0.42	2.17	1.00	0.02
41.90	144.63	0.42	2.16	1.00	0.01	41.98	149.04	0.47	2.09	1.00	0.02
42.04	154.77	0.55	2.00	1.00	0.01	42.11	141.50	0.40	2.22	1.00	0.02
42.16	138.48	0.37	2.27	1.00	0.01	42.23	139.73	0.38	2.25	1.00	0.02
42.29	146.16	0.44	2.14	1.00	0.02	42.35	152.29	0.51	2.04	1.00	0.01
42.40	157.82	0.60	1.86	1.00	0.01	42.46	163.10	0.70	1.55	1.00	0.01
42.55	167.10	0.80	1.20	1.00	0.01	42.62	171.50	0.94	0.87	1.00	0.01
42.67	175.48	1.10	0.63	1.00	0.00	42.80	179.82	1.32	0.40	1.00	0.01
42.85	179.88	1.32	0.39	1.00	0.00	42.93	176.31	1.14	0.58	1.00	0.01
42.97	173.88	1.03	0.72	1.00	0.00	43.02	172.06	0.96	0.83	1.00	0.00
43.07	171.29	0.94	0.88	1.00	0.01	43.13	171.11	0.93	0.90	1.00	0.01
43.19	170.99	0.93	0.90	1.00	0.01	43.29	172.21	0.97	0.82	1.00	0.01
43.35	171.49	0.94	0.87	1.00	0.01	43.41	169.62	0.88	1.00	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
43.46	167.15	0.81	1.19	1.00	0.01	43.55	161.81	0.68	1.62	1.00	0.02
43.62	158.93	0.62	1.79	1.00	0.01	43.67	156.81	0.58	1.92	1.00	0.01
43.74	154.00	0.54	2.01	1.00	0.02	43.79	151.14	0.50	2.06	1.00	0.01
43.85	148.68	0.47	2.10	1.00	0.01	43.94	144.70	0.43	2.16	1.00	0.02
44.00	142.47	0.41	2.20	1.00	0.01	44.06	140.45	0.39	2.24	1.00	0.02
44.16	136.85	0.36	2.30	1.00	0.03	44.23	135.14	0.35	2.33	1.00	0.02
44.29	132.98	0.34	2.37	1.00	0.02	44.36	130.96	0.32	2.42	1.00	0.02
44.48	127.48	0.31	2.49	1.00	0.04	44.56	125.37	0.30	2.53	1.00	0.02
44.61	123.02	0.28	2.59	1.00	0.02	44.68	120.06	0.27	2.65	1.00	0.02
44.74	116.79	0.26	2.73	1.00	0.02	44.82	112.05	0.24	2.86	1.00	0.03
44.86	111.82	0.24	2.86	1.00	0.02	44.95	110.44	0.24	2.90	1.00	0.03
45.00	110.87	0.24	2.89	1.00	0.02	45.06	114.22	0.25	2.80	1.00	0.02
45.10	113.17	0.25	2.83	1.00	0.01	45.17	113.59	0.25	2.81	1.00	0.03
45.26	107.10	0.23	2.99	1.00	0.03	45.29	106.76	0.23	3.00	1.00	0.01
45.39	105.93	0.23	3.03	1.00	0.03	45.43	111.25	0.24	2.88	1.00	0.01
45.48	118.89	0.27	2.68	1.00	0.02	45.57	128.50	0.31	2.47	1.00	0.03
45.61	127.37	0.31	2.49	1.00	0.01	45.70	119.41	0.27	2.67	1.00	0.03
45.74	119.90	0.27	2.66	1.00	0.01	45.84	137.35	0.37	2.29	1.00	0.03
45.89	141.76	0.40	2.21	1.00	0.01	45.94	139.22	0.38	2.26	1.00	0.01
46.03	120.34	0.27	2.65	1.00	0.03	46.09	110.30	0.24	2.90	1.00	0.02
46.14	38.70	2.00	0.00	1.00	0.00	46.23	26.55	2.00	0.00	1.00	0.00
46.27	21.83	2.00	0.00	1.00	0.00	46.44	18.59	2.00	0.00	1.00	0.00
46.50	17.88	2.00	0.00	1.00	0.00	46.55	17.44	2.00	0.00	1.00	0.00
46.62	16.93	2.00	0.00	1.00	0.00	46.67	16.08	2.00	0.00	1.00	0.00
46.72	15.86	2.00	0.00	1.00	0.00	46.80	16.00	2.00	0.00	1.00	0.00
46.86	16.12	2.00	0.00	1.00	0.00	46.93	16.25	2.00	0.00	1.00	0.00
46.98	16.66	2.00	0.00	1.00	0.00	47.06	17.00	2.00	0.00	1.00	0.00
47.11	17.70	2.00	0.00	1.00	0.00	47.18	19.30	2.00	0.00	1.00	0.00
47.24	19.99	2.00	0.00	1.00	0.00	47.30	20.19	2.00	0.00	1.00	0.00
47.37	21.44	2.00	0.00	1.00	0.00	47.43	22.83	2.00	0.00	1.00	0.00
47.50	23.66	2.00	0.00	1.00	0.00	47.55	23.51	2.00	0.00	1.00	0.00
47.68	23.48	2.00	0.00	1.00	0.00	47.74	23.89	2.00	0.00	1.00	0.00
47.81	24.64	2.00	0.00	1.00	0.00	47.88	25.19	2.00	0.00	1.00	0.00
47.94	25.46	2.00	0.00	1.00	0.00	48.00	26.43	2.00	0.00	1.00	0.00
48.05	24.58	2.00	0.00	1.00	0.00	48.05	18.48	2.00	0.00	1.00	0.00
48.14	29.93	2.00	0.00	1.00	0.00	48.18	30.91	2.00	0.00	1.00	0.00
48.28	32.30	2.00	0.00	1.00	0.00	48.32	33.06	2.00	0.00	1.00	0.00
48.36	33.12	2.00	0.00	1.00	0.00	48.47	31.37	2.00	0.00	1.00	0.00
48.59	27.10	2.00	0.00	1.00	0.00	48.66	26.44	2.00	0.00	1.00	0.00
48.71	26.50	2.00	0.00	1.00	0.00	48.77	25.99	2.00	0.00	1.00	0.00
48.85	24.91	2.00	0.00	1.00	0.00	48.90	25.60	2.00	0.00	1.00	0.00
48.98	28.67	2.00	0.00	1.00	0.00	49.02	33.16	2.00	0.00	1.00	0.00
49.10	35.82	2.00	0.00	1.00	0.00	49.15	35.30	2.00	0.00	1.00	0.00
49.20	33.87	2.00	0.00	1.00	0.00	49.29	31.51	2.00	0.00	1.00	0.00
49.33	29.11	2.00	0.00	1.00	0.00	49.39	29.22	2.00	0.00	1.00	0.00
49.46	30.87	2.00	0.00	1.00	0.00	49.51	32.82	2.00	0.00	1.00	0.00
49.59	34.13	2.00	0.00	1.00	0.00	49.64	32.42	2.00	0.00	1.00	0.00
49.69	30.30	2.00	0.00	1.00	0.00	49.77	26.45	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
49.84	22.50	2.00	0.00	1.00	0.00	49.90	20.01	2.00	0.00	1.00	0.00
49.96	19.65	2.00	0.00	1.00	0.00	50.03	20.40	2.00	0.00	1.00	0.00
50.16	31.36	2.00	0.00	1.00	0.00	50.21	46.42	2.00	0.00	1.00	0.00
50.29	65.25	2.00	0.00	1.00	0.00	50.33	75.45	2.00	0.00	1.00	0.00

Total estimated settlement: 6.53

Abbreviations

$Q_{tn,cs}$:	Equivalent clean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

:: Post-earthquake settlement due to soil liquefaction ::

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
5.08	14.32	2.00	0.00	1.00	0.00	5.13	18.64	2.00	0.00	1.00	0.00
5.21	78.23	0.29	4.10	1.00	0.04	5.26	79.99	0.29	4.01	1.00	0.02
5.34	77.33	0.28	4.14	1.00	0.04	5.39	78.83	0.29	4.07	1.00	0.02
5.47	82.91	0.30	3.87	1.00	0.04	5.52	86.73	0.30	3.71	1.00	0.02
5.60	90.42	0.31	3.56	1.00	0.03	5.63	86.99	0.30	3.70	1.00	0.01
5.66	86.26	0.30	3.73	1.00	0.02	5.74	89.96	0.31	3.57	1.00	0.03
5.78	89.37	0.30	3.60	1.00	0.02	5.85	90.24	0.31	3.56	1.00	0.03
5.94	92.72	0.31	3.47	1.00	0.04	6.00	94.94	0.32	3.39	1.00	0.02
6.06	96.33	0.32	3.34	1.00	0.02	6.10	96.73	0.32	3.32	1.00	0.02
6.20	95.72	0.31	3.36	1.00	0.04	6.26	94.21	0.31	3.41	1.00	0.02
6.32	93.48	0.30	3.44	1.00	0.02	6.37	92.62	0.30	3.47	1.00	0.02
6.46	30.03	2.00	0.00	1.00	0.00	6.51	28.92	2.00	0.00	1.00	0.00
6.63	27.10	2.00	0.00	1.00	0.00	6.69	25.03	2.00	0.00	1.00	0.00
6.76	25.03	2.00	0.00	1.00	0.00	6.81	25.03	2.00	0.00	1.00	0.00
6.86	25.02	2.00	0.00	1.00	0.00	6.94	25.12	2.00	0.00	1.00	0.00
7.00	25.65	2.00	0.00	1.00	0.00	7.08	25.53	2.00	0.00	1.00	0.00
7.11	20.81	2.00	0.00	1.00	0.00	7.18	22.94	2.00	0.00	1.00	0.00
7.22	21.07	2.00	0.00	1.00	0.00	7.34	16.86	2.00	0.00	1.00	0.00
7.40	14.70	2.00	0.00	1.00	0.00	7.46	14.24	2.00	0.00	1.00	0.00
7.52	14.44	2.00	0.00	1.00	0.00	7.58	14.26	2.00	0.00	1.00	0.00
7.65	16.27	2.00	0.00	1.00	0.00	7.71	20.70	2.00	0.00	1.00	0.00
7.78	82.19	0.25	3.91	1.00	0.03	7.82	85.67	0.26	3.75	1.00	0.02
7.90	87.69	0.26	3.67	1.00	0.03	7.96	89.17	0.26	3.61	1.00	0.03
8.02	90.93	0.27	3.54	1.00	0.03	8.10	90.57	0.27	3.55	1.00	0.03
8.16	93.38	0.27	3.44	1.00	0.02	8.24	93.09	0.27	3.45	1.00	0.04
8.30	92.01	0.27	3.50	1.00	0.03	8.38	91.63	0.26	3.51	1.00	0.03
8.42	93.07	0.27	3.46	1.00	0.02	8.49	28.41	2.00	0.00	1.00	0.00
8.55	92.70	0.27	3.47	1.00	0.02	8.61	97.42	0.28	3.30	1.00	0.02
8.68	95.52	0.27	3.37	1.00	0.03	8.73	89.95	0.26	3.57	1.00	0.02
8.81	90.81	0.26	3.54	1.00	0.03	8.86	92.94	0.26	3.46	1.00	0.02
8.99	101.32	0.28	3.17	1.00	0.05	9.04	104.31	0.29	3.08	1.00	0.02
9.12	107.93	0.31	2.97	1.00	0.03	9.26	110.49	0.31	2.90	1.00	0.05
9.30	110.83	0.31	2.89	1.00	0.02	9.34	106.11	0.30	3.02	1.00	0.02
9.39	105.16	0.29	3.05	1.00	0.02	9.48	103.56	0.29	3.10	1.00	0.03
9.55	102.12	0.28	3.14	1.00	0.03	9.60	98.25	0.27	3.27	1.00	0.02
9.68	91.59	0.25	3.51	1.00	0.03	9.74	25.76	2.00	0.00	1.00	0.00
9.79	77.04	0.22	4.16	1.00	0.03	9.87	16.20	2.00	0.00	1.00	0.00
9.92	13.25	2.00	0.00	1.00	0.00	10.00	16.48	2.00	0.00	1.00	0.00
10.06	16.79	2.00	0.00	1.00	0.00	10.14	89.39	0.24	3.60	1.00	0.04
10.18	97.85	0.26	3.28	1.00	0.02	10.26	111.15	0.31	2.88	1.00	0.03
10.31	117.03	0.33	2.73	1.00	0.02	10.37	122.45	0.36	2.60	1.00	0.02
10.47	125.88	0.38	2.52	1.00	0.03	10.51	127.16	0.38	2.49	1.00	0.01
10.62	129.94	0.40	2.44	1.00	0.03	10.67	132.38	0.42	2.39	1.00	0.01
10.75	134.57	0.44	2.34	1.00	0.02	10.80	135.98	0.45	2.32	1.00	0.01
10.87	137.42	0.46	2.29	1.00	0.02	10.93	138.30	0.47	2.27	1.00	0.02
11.02	138.91	0.47	2.26	1.00	0.02	11.07	139.13	0.47	2.26	1.00	0.01
11.14	139.18	0.47	2.26	1.00	0.02	11.20	139.11	0.47	2.26	1.00	0.02
11.25	137.96	0.46	2.28	1.00	0.01	11.32	135.28	0.44	2.33	1.00	0.02

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
11.38	131.13	0.40	2.41	1.00	0.02	11.45	125.66	0.37	2.53	1.00	0.02
11.51	119.90	0.33	2.66	1.00	0.02	11.57	112.76	0.30	2.84	1.00	0.02
11.64	104.75	0.27	3.06	1.00	0.02	11.71	97.93	0.25	3.28	1.00	0.03
11.77	92.80	0.24	3.47	1.00	0.03	11.90	87.07	0.22	3.69	1.00	0.06
11.95	86.15	0.22	3.73	1.00	0.02	12.03	85.71	0.22	3.75	1.00	0.03
12.09	85.07	0.22	3.78	1.00	0.03	12.16	83.90	0.21	3.83	1.00	0.03
12.21	24.43	2.00	0.00	1.00	0.00	12.28	23.21	2.00	0.00	1.00	0.00
12.34	22.10	2.00	0.00	1.00	0.00	12.42	21.74	2.00	0.00	1.00	0.00
12.47	21.71	2.00	0.00	1.00	0.00	12.54	22.53	2.00	0.00	1.00	0.00
12.60	23.45	2.00	0.00	1.00	0.00	12.67	24.37	2.00	0.00	1.00	0.00
12.74	25.09	2.00	0.00	1.00	0.00	12.80	82.25	0.21	3.90	1.00	0.03
12.87	24.18	2.00	0.00	1.00	0.00	12.92	24.24	2.00	0.00	1.00	0.00
12.99	26.20	2.00	0.00	1.00	0.00	13.02	24.48	2.00	0.00	1.00	0.00
13.09	30.99	2.00	0.00	1.00	0.00	13.13	95.94	0.24	3.35	1.00	0.02
13.23	36.90	2.00	0.00	1.00	0.00	13.26	36.87	2.00	0.00	1.00	0.00
13.36	37.89	2.00	0.00	1.00	0.00	13.40	100.99	0.25	3.18	1.00	0.02
13.49	100.85	0.25	3.19	1.00	0.03	13.54	98.88	0.24	3.25	1.00	0.02
13.60	34.10	2.00	0.00	1.00	0.00	13.65	29.88	2.00	0.00	1.00	0.00
13.75	21.25	2.00	0.00	1.00	0.00	13.79	18.00	2.00	0.00	1.00	0.00
13.89	14.07	2.00	0.00	1.00	0.00	13.93	13.32	2.00	0.00	1.00	0.00
13.98	11.93	2.00	0.00	1.00	0.00	14.11	11.38	2.00	0.00	1.00	0.00
14.15	11.15	2.00	0.00	1.00	0.00	14.20	11.04	2.00	0.00	1.00	0.00
14.27	10.48	2.00	0.00	1.00	0.00	14.33	10.47	2.00	0.00	1.00	0.00
14.38	10.46	2.00	0.00	1.00	0.00	14.46	10.40	2.00	0.00	1.00	0.00
14.54	10.33	2.00	0.00	1.00	0.00	14.59	10.21	2.00	0.00	1.00	0.00
14.66	10.09	2.00	0.00	1.00	0.00	14.78	9.34	2.00	0.00	1.00	0.00
14.85	9.22	2.00	0.00	1.00	0.00	14.91	9.11	2.00	0.00	1.00	0.00
14.99	9.10	2.00	0.00	1.00	0.00	15.04	9.09	2.00	0.00	1.00	0.00
15.12	9.39	2.00	0.00	1.00	0.00	15.17	9.90	2.00	0.00	1.00	0.00
15.23	10.52	2.00	0.00	1.00	0.00	15.30	10.92	2.00	0.00	1.00	0.00
15.34	10.91	2.00	0.00	1.00	0.00	15.48	10.06	2.00	0.00	1.00	0.00
15.54	9.53	2.00	0.00	1.00	0.00	15.61	9.09	2.00	0.00	1.00	0.00
15.66	8.77	2.00	0.00	1.00	0.00	15.73	8.67	2.00	0.00	1.00	0.00
15.78	8.97	2.00	0.00	1.00	0.00	15.97	10.09	2.00	0.00	1.00	0.00
16.02	10.08	2.00	0.00	1.00	0.00	16.03	10.08	2.00	0.00	1.00	0.00
16.11	10.07	2.00	0.00	1.00	0.00	16.14	10.26	2.00	0.00	1.00	0.00
16.29	9.10	2.00	0.00	1.00	0.00	16.33	8.79	2.00	0.00	1.00	0.00
16.45	8.77	2.00	0.00	1.00	0.00	16.49	8.76	2.00	0.00	1.00	0.00
16.56	8.75	2.00	0.00	1.00	0.00	16.63	9.36	2.00	0.00	1.00	0.00
16.67	10.37	2.00	0.00	1.00	0.00	16.75	11.58	2.00	0.00	1.00	0.00
16.80	13.19	2.00	0.00	1.00	0.00	16.87	14.97	2.00	0.00	1.00	0.00
16.93	16.56	2.00	0.00	1.00	0.00	16.99	18.44	2.00	0.00	1.00	0.00
17.06	21.39	2.00	0.00	1.00	0.00	17.11	24.82	2.00	0.00	1.00	0.00
17.18	27.81	2.00	0.00	1.00	0.00	17.24	27.68	2.00	0.00	1.00	0.00
17.30	23.65	2.00	0.00	1.00	0.00	17.37	19.09	2.00	0.00	1.00	0.00
17.43	16.20	2.00	0.00	1.00	0.00	17.51	14.19	2.00	0.00	1.00	0.00
17.64	13.35	2.00	0.00	1.00	0.00	17.68	13.34	2.00	0.00	1.00	0.00
17.75	17.48	2.00	0.00	1.00	0.00	17.82	19.22	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
17.88	19.10	2.00	0.00	1.00	0.00	17.94	18.48	2.00	0.00	1.00	0.00
17.99	18.46	2.00	0.00	1.00	0.00	18.08	20.57	2.00	0.00	1.00	0.00
18.12	24.62	2.00	0.00	1.00	0.00	18.21	31.00	2.00	0.00	1.00	0.00
18.26	101.50	0.23	3.16	1.00	0.02	18.32	111.11	0.26	2.88	1.00	0.02
18.39	109.37	0.25	2.93	1.00	0.02	18.44	107.67	0.24	2.98	1.00	0.02
18.52	106.43	0.24	3.01	1.00	0.03	18.57	107.18	0.24	2.99	1.00	0.02
18.62	108.53	0.25	2.95	1.00	0.02	18.64	105.72	0.24	3.03	1.00	0.01
18.74	103.46	0.23	3.10	1.00	0.04	18.78	99.55	0.22	3.23	1.00	0.02
18.88	91.80	0.20	3.50	1.00	0.04	18.92	87.95	0.20	3.66	1.00	0.02
19.05	81.45	0.18	3.94	1.00	0.06	19.15	74.45	0.17	4.29	1.00	0.05
19.22	15.21	2.00	0.00	1.00	0.00	19.27	12.38	2.00	0.00	1.00	0.00
19.34	10.42	2.00	0.00	1.00	0.00	19.40	8.95	2.00	0.00	1.00	0.00
19.46	8.07	2.00	0.00	1.00	0.00	19.53	7.19	2.00	0.00	1.00	0.00
19.59	7.56	2.00	0.00	1.00	0.00	19.66	7.66	2.00	0.00	1.00	0.00
19.71	7.07	2.00	0.00	1.00	0.00	19.79	6.87	2.00	0.00	1.00	0.00
19.84	6.87	2.00	0.00	1.00	0.00	19.91	6.66	2.00	0.00	1.00	0.00
19.98	7.23	2.00	0.00	1.00	0.00	20.03	7.62	2.00	0.00	1.00	0.00
20.11	8.00	2.00	0.00	1.00	0.00	20.21	8.28	2.00	0.00	1.00	0.00
20.28	8.66	2.00	0.00	1.00	0.00	20.34	9.04	2.00	0.00	1.00	0.00
20.40	9.51	2.00	0.00	1.00	0.00	20.46	10.07	2.00	0.00	1.00	0.00
20.52	11.03	2.00	0.00	1.00	0.00	20.58	11.96	2.00	0.00	1.00	0.00
20.64	13.66	2.00	0.00	1.00	0.00	20.69	15.73	2.00	0.00	1.00	0.00
20.76	17.59	2.00	0.00	1.00	0.00	20.81	19.26	2.00	0.00	1.00	0.00
20.88	21.01	2.00	0.00	1.00	0.00	20.94	23.05	2.00	0.00	1.00	0.00
21.05	31.05	2.00	0.00	1.00	0.00	21.17	105.87	0.23	3.03	1.00	0.04
21.23	112.53	0.25	2.84	1.00	0.02	21.30	116.08	0.26	2.75	1.00	0.02
21.35	119.20	0.28	2.67	1.00	0.02	21.43	117.81	0.27	2.71	1.00	0.02
21.48	115.02	0.26	2.78	1.00	0.02	21.53	119.31	0.28	2.67	1.00	0.02
21.61	125.14	0.30	2.54	1.00	0.02	21.65	127.16	0.31	2.49	1.00	0.01
21.71	126.14	0.31	2.52	1.00	0.02	21.72	118.46	0.27	2.69	1.00	0.00
21.83	121.10	0.28	2.63	1.00	0.04	21.91	120.01	0.28	2.65	1.00	0.02
21.96	120.83	0.28	2.64	1.00	0.02	22.01	122.26	0.29	2.60	1.00	0.02
22.09	124.79	0.30	2.55	1.00	0.02	22.14	126.09	0.31	2.52	1.00	0.01
22.21	127.24	0.31	2.49	1.00	0.02	22.27	125.56	0.30	2.53	1.00	0.02
22.34	120.55	0.28	2.64	1.00	0.02	22.40	115.34	0.26	2.77	1.00	0.02
22.46	110.97	0.25	2.88	1.00	0.02	22.53	106.26	0.23	3.02	1.00	0.02
22.58	101.24	0.22	3.17	1.00	0.02	22.71	100.35	0.22	3.20	1.00	0.05
22.76	101.55	0.22	3.16	1.00	0.02	22.89	100.77	0.22	3.19	1.00	0.05
22.95	103.87	0.22	3.09	1.00	0.02	23.02	111.65	0.25	2.87	1.00	0.03
23.07	115.93	0.26	2.75	1.00	0.02	23.16	118.24	0.27	2.70	1.00	0.03
23.21	117.89	0.27	2.71	1.00	0.02	23.28	116.28	0.26	2.75	1.00	0.02
23.34	112.76	0.25	2.84	1.00	0.02	23.42	106.74	0.23	3.00	1.00	0.03
23.46	99.49	0.21	3.23	1.00	0.02	23.53	92.59	0.20	3.47	1.00	0.03
23.59	27.15	2.00	0.00	1.00	0.00	23.68	23.91	2.00	0.00	1.00	0.00
23.73	20.76	2.00	0.00	1.00	0.00	23.79	17.36	2.00	0.00	1.00	0.00
23.86	14.74	2.00	0.00	1.00	0.00	23.91	13.47	2.00	0.00	1.00	0.00
23.99	13.37	2.00	0.00	1.00	0.00	24.05	12.99	2.00	0.00	1.00	0.00
24.10	12.54	2.00	0.00	1.00	0.00	24.17	11.54	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
24.24	10.99	2.00	0.00	1.00	0.00	24.30	10.53	2.00	0.00	1.00	0.00
24.36	10.26	2.00	0.00	1.00	0.00	24.44	9.89	2.00	0.00	1.00	0.00
24.51	9.34	2.00	0.00	1.00	0.00	24.56	8.97	2.00	0.00	1.00	0.00
24.62	8.79	2.00	0.00	1.00	0.00	24.69	8.88	2.00	0.00	1.00	0.00
24.74	9.05	2.00	0.00	1.00	0.00	24.82	9.48	2.00	0.00	1.00	0.00
24.87	9.74	2.00	0.00	1.00	0.00	24.95	9.91	2.00	0.00	1.00	0.00
25.01	9.99	2.00	0.00	1.00	0.00	25.08	10.24	2.00	0.00	1.00	0.00
25.14	10.76	2.00	0.00	1.00	0.00	25.20	10.85	2.00	0.00	1.00	0.00
25.27	10.48	2.00	0.00	1.00	0.00	25.32	10.03	2.00	0.00	1.00	0.00
25.40	10.29	2.00	0.00	1.00	0.00	25.45	10.98	2.00	0.00	1.00	0.00
25.53	12.82	2.00	0.00	1.00	0.00	25.58	14.91	2.00	0.00	1.00	0.00
25.60	12.28	2.00	0.00	1.00	0.00	25.67	85.24	0.18	3.77	1.00	0.03
25.74	90.68	0.19	3.55	1.00	0.03	25.82	99.34	0.21	3.23	1.00	0.03
25.87	104.02	0.22	3.09	1.00	0.02	25.94	104.57	0.22	3.07	1.00	0.03
26.01	94.24	0.20	3.41	1.00	0.03	26.05	94.80	0.20	3.39	1.00	0.02
26.12	96.32	0.20	3.34	1.00	0.03	26.18	97.95	0.21	3.28	1.00	0.02
26.28	103.31	0.22	3.11	1.00	0.03	26.31	105.45	0.22	3.04	1.00	0.01
26.40	109.29	0.23	2.93	1.00	0.03	26.48	109.74	0.24	2.92	1.00	0.03
26.53	108.64	0.23	2.95	1.00	0.02	26.59	107.68	0.23	2.98	1.00	0.02
26.66	106.63	0.23	3.01	1.00	0.03	26.78	104.54	0.22	3.07	1.00	0.04
26.83	105.30	0.22	3.05	1.00	0.02	26.90	106.02	0.23	3.03	1.00	0.03
26.98	104.20	0.22	3.08	1.00	0.03	27.03	105.63	0.22	3.04	1.00	0.02
27.10	106.68	0.23	3.01	1.00	0.02	27.15	106.19	0.23	3.02	1.00	0.02
27.22	104.47	0.22	3.07	1.00	0.03	27.28	102.22	0.22	3.14	1.00	0.02
27.33	97.79	0.20	3.29	1.00	0.02	27.42	92.98	0.19	3.46	1.00	0.03
27.46	27.82	2.00	0.00	1.00	0.00	27.55	22.19	2.00	0.00	1.00	0.00
27.60	18.27	2.00	0.00	1.00	0.00	27.67	15.36	2.00	0.00	1.00	0.00
27.73	13.05	2.00	0.00	1.00	0.00	27.85	10.22	2.00	0.00	1.00	0.00
27.91	9.37	2.00	0.00	1.00	0.00	27.99	8.94	2.00	0.00	1.00	0.00
28.04	8.75	2.00	0.00	1.00	0.00	28.10	8.75	2.00	0.00	1.00	0.00
28.17	8.58	2.00	0.00	1.00	0.00	28.24	8.06	2.00	0.00	1.00	0.00
28.30	7.80	2.00	0.00	1.00	0.00	28.37	7.63	2.00	0.00	1.00	0.00
28.43	7.62	2.00	0.00	1.00	0.00	28.45	7.66	2.00	0.00	1.00	0.00
28.50	7.69	2.00	0.00	1.00	0.00	28.55	7.94	2.00	0.00	1.00	0.00
28.63	8.02	2.00	0.00	1.00	0.00	28.68	8.27	2.00	0.00	1.00	0.00
28.78	8.76	2.00	0.00	1.00	0.00	28.84	8.84	2.00	0.00	1.00	0.00
28.89	9.00	2.00	0.00	1.00	0.00	28.94	9.25	2.00	0.00	1.00	0.00
29.03	9.49	2.00	0.00	1.00	0.00	29.10	9.39	2.00	0.00	1.00	0.00
29.14	9.31	2.00	0.00	1.00	0.00	29.20	9.13	2.00	0.00	1.00	0.00
29.30	8.95	2.00	0.00	1.00	0.00	29.40	8.69	2.00	0.00	1.00	0.00
29.46	8.52	2.00	0.00	1.00	0.00	29.52	8.76	2.00	0.00	1.00	0.00
29.56	8.76	2.00	0.00	1.00	0.00	29.61	8.92	2.00	0.00	1.00	0.00
29.67	9.32	2.00	0.00	1.00	0.00	29.73	9.98	2.00	0.00	1.00	0.00
29.83	10.80	2.00	0.00	1.00	0.00	29.88	11.54	2.00	0.00	1.00	0.00
30.01	12.51	2.00	0.00	1.00	0.00	30.05	12.75	2.00	0.00	1.00	0.00
30.09	12.99	2.00	0.00	1.00	0.00	30.14	13.06	2.00	0.00	1.00	0.00
30.21	12.64	2.00	0.00	1.00	0.00	30.27	12.62	2.00	0.00	1.00	0.00
30.36	12.61	2.00	0.00	1.00	0.00	30.42	12.60	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
30.47	12.83	2.00	0.00	1.00	0.00	30.53	13.16	2.00	0.00	1.00	0.00
30.58	13.15	2.00	0.00	1.00	0.00	30.67	12.64	2.00	0.00	1.00	0.00
30.74	12.13	2.00	0.00	1.00	0.00	30.79	11.95	2.00	0.00	1.00	0.00
30.85	11.70	2.00	0.00	1.00	0.00	30.91	11.28	2.00	0.00	1.00	0.00
30.98	10.62	2.00	0.00	1.00	0.00	31.10	9.71	2.00	0.00	1.00	0.00
31.23	8.96	2.00	0.00	1.00	0.00	31.28	8.63	2.00	0.00	1.00	0.00
31.34	8.38	2.00	0.00	1.00	0.00	31.37	8.37	2.00	0.00	1.00	0.00
31.37	8.37	2.00	0.00	1.00	0.00	31.46	8.36	2.00	0.00	1.00	0.00
31.51	8.12	2.00	0.00	1.00	0.00	31.60	7.86	2.00	0.00	1.00	0.00
31.65	8.03	2.00	0.00	1.00	0.00	31.74	8.02	2.00	0.00	1.00	0.00
31.82	8.01	2.00	0.00	1.00	0.00	31.86	8.01	2.00	0.00	1.00	0.00
31.91	7.84	2.00	0.00	1.00	0.00	31.99	7.83	2.00	0.00	1.00	0.00
32.04	8.07	2.00	0.00	1.00	0.00	32.16	7.81	2.00	0.00	1.00	0.00
32.18	7.57	2.00	0.00	1.00	0.00	32.23	7.81	2.00	0.00	1.00	0.00
32.31	7.80	2.00	0.00	1.00	0.00	32.35	7.72	2.00	0.00	1.00	0.00
32.44	7.55	2.00	0.00	1.00	0.00	32.53	7.54	2.00	0.00	1.00	0.00
32.57	7.62	2.00	0.00	1.00	0.00	32.62	7.46	2.00	0.00	1.00	0.00
32.69	7.69	2.00	0.00	1.00	0.00	32.75	8.00	2.00	0.00	1.00	0.00
32.83	8.71	2.00	0.00	1.00	0.00	32.92	9.82	2.00	0.00	1.00	0.00
32.97	10.29	2.00	0.00	1.00	0.00	33.01	10.53	2.00	0.00	1.00	0.00
33.10	10.84	2.00	0.00	1.00	0.00	33.14	11.07	2.00	0.00	1.00	0.00
33.23	10.26	2.00	0.00	1.00	0.00	33.28	9.78	2.00	0.00	1.00	0.00
33.34	9.29	2.00	0.00	1.00	0.00	33.43	9.21	2.00	0.00	1.00	0.00
33.50	9.20	2.00	0.00	1.00	0.00	33.54	9.51	2.00	0.00	1.00	0.00
33.64	10.29	2.00	0.00	1.00	0.00	33.70	10.28	2.00	0.00	1.00	0.00
33.76	10.43	2.00	0.00	1.00	0.00	33.80	10.59	2.00	0.00	1.00	0.00
33.86	10.90	2.00	0.00	1.00	0.00	33.98	10.88	2.00	0.00	1.00	0.00
34.04	9.85	2.00	0.00	1.00	0.00	34.08	11.66	2.00	0.00	1.00	0.00
34.17	10.14	2.00	0.00	1.00	0.00	34.21	8.88	2.00	0.00	1.00	0.00
34.26	8.88	2.00	0.00	1.00	0.00	34.39	8.86	2.00	0.00	1.00	0.00
34.43	8.86	2.00	0.00	1.00	0.00	34.48	9.01	2.00	0.00	1.00	0.00
34.53	8.85	2.00	0.00	1.00	0.00	34.58	8.69	2.00	0.00	1.00	0.00
34.65	8.83	2.00	0.00	1.00	0.00	34.74	9.13	2.00	0.00	1.00	0.00
34.78	9.36	2.00	0.00	1.00	0.00	34.87	9.90	2.00	0.00	1.00	0.00
34.92	9.90	2.00	0.00	1.00	0.00	35.00	10.59	2.00	0.00	1.00	0.00
35.05	11.13	2.00	0.00	1.00	0.00	35.12	12.14	2.00	0.00	1.00	0.00
35.18	12.98	2.00	0.00	1.00	0.00	35.27	14.61	2.00	0.00	1.00	0.00
35.31	15.46	2.00	0.00	1.00	0.00	35.40	15.99	2.00	0.00	1.00	0.00
35.44	16.05	2.00	0.00	1.00	0.00	35.58	17.19	2.00	0.00	1.00	0.00
35.62	18.04	2.00	0.00	1.00	0.00	35.72	19.73	2.00	0.00	1.00	0.00
35.76	20.58	2.00	0.00	1.00	0.00	35.81	21.27	2.00	0.00	1.00	0.00
35.84	22.34	2.00	0.00	1.00	0.00	35.90	23.26	2.00	0.00	1.00	0.00
35.98	24.95	2.00	0.00	1.00	0.00	36.04	25.39	2.00	0.00	1.00	0.00
36.09	25.61	2.00	0.00	1.00	0.00	36.24	25.64	2.00	0.00	1.00	0.00
36.28	26.01	2.00	0.00	1.00	0.00	36.33	27.78	2.00	0.00	1.00	0.00
36.39	31.41	2.00	0.00	1.00	0.00	36.46	37.05	2.00	0.00	1.00	0.00
36.51	43.11	2.00	0.00	1.00	0.00	36.57	46.36	2.00	0.00	1.00	0.00
36.64	47.34	2.00	0.00	1.00	0.00	36.68	47.31	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
36.76	48.29	2.00	0.00	1.00	0.00	36.81	52.80	2.00	0.00	1.00	0.00
36.99	138.91	0.37	2.26	1.00	0.05	37.07	148.14	0.46	2.10	1.00	0.02
37.13	145.32	0.43	2.15	1.00	0.01	37.18	144.61	0.42	2.16	1.00	0.01
37.21	144.50	0.42	2.16	1.00	0.01	37.32	151.33	0.50	2.05	1.00	0.03
37.39	157.60	0.59	1.87	1.00	0.02	37.44	161.86	0.68	1.62	1.00	0.01
37.48	165.79	0.77	1.31	1.00	0.01	37.57	172.11	0.96	0.83	1.00	0.01
37.61	175.56	1.10	0.62	1.00	0.00	37.67	179.85	1.32	0.39	1.00	0.00
37.75	182.99	1.52	0.24	1.00	0.00	37.81	183.31	1.54	0.23	1.00	0.00
37.88	182.57	1.49	0.26	1.00	0.00	37.94	180.48	1.36	0.36	1.00	0.00
38.02	178.11	1.23	0.48	1.00	0.00	38.07	176.50	1.15	0.57	1.00	0.00
38.14	175.30	1.09	0.63	1.00	0.01	38.23	175.29	1.09	0.64	1.00	0.01
38.28	175.90	1.12	0.60	1.00	0.00	38.34	178.49	1.25	0.46	1.00	0.00
38.39	185.18	1.68	0.15	1.00	0.00	38.45	193.16	2.00	0.00	1.00	0.00
38.52	200.34	2.00	0.00	1.00	0.00	38.59	206.16	2.00	0.00	1.00	0.00
38.67	209.39	2.00	0.00	1.00	0.00	38.72	209.46	2.00	0.00	1.00	0.00
38.81	210.19	2.00	0.00	1.00	0.00	38.85	210.59	2.00	0.00	1.00	0.00
38.97	215.89	2.00	0.00	1.00	0.00	39.03	219.04	2.00	0.00	1.00	0.00
39.11	222.46	2.00	0.00	1.00	0.00	39.16	224.84	2.00	0.00	1.00	0.00
39.23	226.74	2.00	0.00	1.00	0.00	39.29	227.94	2.00	0.00	1.00	0.00
39.36	228.87	2.00	0.00	1.00	0.00	39.42	229.16	2.00	0.00	1.00	0.00
39.47	228.82	2.00	0.00	1.00	0.00	39.55	226.80	2.00	0.00	1.00	0.00
39.60	223.70	2.00	0.00	1.00	0.00	39.64	202.56	2.00	0.00	1.00	0.00
39.71	207.78	2.00	0.00	1.00	0.00	39.81	203.83	2.00	0.00	1.00	0.00
39.86	200.69	2.00	0.00	1.00	0.00	39.90	199.22	2.00	0.00	1.00	0.00
39.99	193.97	2.00	0.00	1.00	0.00	40.03	192.65	2.00	0.00	1.00	0.00
40.12	189.03	2.00	0.00	1.00	0.00	40.16	186.93	1.83	0.07	1.00	0.00
40.25	182.20	1.47	0.28	1.00	0.00	40.29	180.93	1.39	0.34	1.00	0.00
40.39	177.01	1.17	0.53	1.00	0.01	40.45	176.99	1.17	0.54	1.00	0.00
40.52	177.36	1.19	0.52	1.00	0.00	40.56	178.24	1.24	0.47	1.00	0.00
40.66	180.94	1.39	0.34	1.00	0.00	40.70	182.00	1.46	0.29	1.00	0.00
40.78	184.50	1.63	0.17	1.00	0.00	40.83	186.26	1.77	0.10	1.00	0.00
40.89	188.16	1.93	0.03	1.00	0.00	40.96	189.17	2.00	0.00	1.00	0.00
41.05	189.02	2.00	0.00	1.00	0.00	41.09	189.02	2.00	0.00	1.00	0.00
41.16	189.38	2.00	0.00	1.00	0.00	41.22	189.28	2.00	0.00	1.00	0.00
41.29	190.28	2.00	0.00	1.00	0.00	41.34	191.49	2.00	0.00	1.00	0.00
41.44	193.26	2.00	0.00	1.00	0.00	41.49	193.82	2.00	0.00	1.00	0.00
41.58	193.94	2.00	0.00	1.00	0.00	41.63	194.02	2.00	0.00	1.00	0.00
41.69	193.84	2.00	0.00	1.00	0.00	41.74	193.91	2.00	0.00	1.00	0.00
41.91	187.75	1.90	0.04	1.00	0.00	41.96	183.09	1.53	0.23	1.00	0.00
42.02	177.26	1.19	0.52	1.00	0.00	42.07	172.86	1.00	0.77	1.00	0.01
42.13	169.20	0.87	1.02	1.00	0.01	42.19	167.28	0.82	1.17	1.00	0.01
42.25	166.95	0.81	1.19	1.00	0.01	42.33	167.78	0.83	1.13	1.00	0.01
42.43	171.52	0.95	0.86	1.00	0.01	42.47	170.62	0.92	0.92	1.00	0.00
42.56	169.79	0.89	0.97	1.00	0.01	42.60	169.58	0.89	0.99	1.00	0.00
42.66	167.75	0.83	1.13	1.00	0.01	42.73	164.39	0.74	1.42	1.00	0.01
42.81	162.85	0.71	1.57	1.00	0.01	42.86	161.50	0.68	1.64	1.00	0.01
42.95	162.47	0.70	1.59	1.00	0.02	42.99	166.20	0.79	1.25	1.00	0.01
43.08	176.38	1.15	0.56	1.00	0.01	43.17	185.31	1.70	0.14	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
43.22	188.75	1.99	0.00	1.00	0.00	43.26	191.41	2.00	0.00	1.00	0.00
43.34	183.52	1.56	0.21	1.00	0.00	43.39	183.72	1.58	0.20	1.00	0.00
43.48	182.59	1.50	0.26	1.00	0.00	43.51	183.80	1.58	0.20	1.00	0.00
43.59	184.53	1.64	0.17	1.00	0.00	43.65	186.58	1.80	0.08	1.00	0.00
43.72	190.64	2.00	0.00	1.00	0.00	43.79	192.86	2.00	0.00	1.00	0.00
43.88	193.56	2.00	0.00	1.00	0.00	43.91	192.64	2.00	0.00	1.00	0.00
44.00	189.42	2.00	0.00	1.00	0.00	44.04	186.30	1.78	0.09	1.00	0.00
44.14	178.42	1.25	0.45	1.00	0.01	44.18	174.96	1.09	0.64	1.00	0.00
44.23	171.17	0.94	0.87	1.00	0.01	44.32	167.06	0.81	1.17	1.00	0.01
44.36	165.94	0.78	1.27	1.00	0.01	44.45	165.80	0.78	1.28	1.00	0.01
44.52	161.61	0.68	1.63	1.00	0.01	44.58	165.46	0.77	1.31	1.00	0.01
44.63	167.51	0.83	1.14	1.00	0.01	44.70	167.40	0.82	1.15	1.00	0.01
44.76	166.84	0.81	1.19	1.00	0.01	44.85	155.75	0.57	1.99	1.00	0.02
44.89	165.88	0.78	1.27	1.00	0.00	44.98	161.82	0.69	1.62	1.00	0.02
45.03	167.44	0.83	1.14	1.00	0.01	45.11	177.73	1.22	0.49	1.00	0.00
45.15	181.93	1.46	0.28	1.00	0.00	45.26	194.65	2.00	0.00	1.00	0.00
45.31	198.06	2.00	0.00	1.00	0.00	45.35	199.75	2.00	0.00	1.00	0.00
45.41	199.81	2.00	0.00	1.00	0.00	45.47	197.14	2.00	0.00	1.00	0.00
45.55	193.21	2.00	0.00	1.00	0.00	45.64	188.68	1.99	0.00	1.00	0.00
45.68	187.02	1.85	0.06	1.00	0.00	45.74	184.25	1.62	0.18	1.00	0.00
45.83	180.04	1.35	0.37	1.00	0.00	45.87	177.14	1.19	0.52	1.00	0.00
45.95	172.31	0.99	0.79	1.00	0.01	46.08	158.96	0.63	1.79	1.00	0.03
46.13	156.38	0.59	1.95	1.00	0.01	46.18	153.87	0.55	2.02	1.00	0.01
46.22	154.76	0.56	2.00	1.00	0.01	46.27	155.23	0.57	2.00	1.00	0.01
46.34	154.98	0.56	2.00	1.00	0.02	46.43	150.76	0.50	2.06	1.00	0.02
46.52	140.05	0.39	2.24	1.00	0.02	46.57	124.94	0.30	2.54	1.00	0.01
46.64	108.85	0.24	2.94	1.00	0.03	46.70	34.41	2.00	0.00	1.00	0.00
46.77	27.98	2.00	0.00	1.00	0.00	46.83	26.86	2.00	0.00	1.00	0.00
46.90	28.09	2.00	0.00	1.00	0.00	46.94	25.66	2.00	0.00	1.00	0.00
47.01	30.90	2.00	0.00	1.00	0.00	47.05	31.66	2.00	0.00	1.00	0.00
47.14	31.70	2.00	0.00	1.00	0.00	47.19	28.91	2.00	0.00	1.00	0.00
47.27	26.81	2.00	0.00	1.00	0.00	47.33	28.97	2.00	0.00	1.00	0.00
47.41	28.29	2.00	0.00	1.00	0.00	47.44	29.04	2.00	0.00	1.00	0.00
47.54	30.53	2.00	0.00	1.00	0.00	47.58	30.80	2.00	0.00	1.00	0.00
47.68	31.61	2.00	0.00	1.00	0.00	47.74	33.18	2.00	0.00	1.00	0.00
47.77	34.84	2.00	0.00	1.00	0.00	47.84	38.23	2.00	0.00	1.00	0.00
47.91	40.66	2.00	0.00	1.00	0.00	47.98	39.63	2.00	0.00	1.00	0.00
48.05	39.43	2.00	0.00	1.00	0.00	48.11	39.41	2.00	0.00	1.00	0.00
48.19	39.21	2.00	0.00	1.00	0.00	48.24	44.41	2.00	0.00	1.00	0.00
48.30	55.76	2.00	0.00	1.00	0.00	48.38	132.59	0.34	2.38	1.00	0.02
48.46	136.00	0.37	2.32	1.00	0.02	48.52	139.45	0.39	2.25	1.00	0.02
48.60	142.96	0.42	2.19	1.00	0.02	48.64	139.33	0.39	2.26	1.00	0.01
48.71	126.44	0.31	2.51	1.00	0.02	48.77	132.19	0.34	2.39	1.00	0.02
48.90	145.04	0.44	2.16	1.00	0.03	48.95	151.22	0.52	2.06	1.00	0.01
48.96	146.02	0.45	2.14	1.00	0.00	49.02	168.60	0.87	1.03	1.00	0.01
49.08	186.58	1.82	0.08	1.00	0.00	49.16	193.66	2.00	0.00	1.00	0.00
49.22	193.20	2.00	0.00	1.00	0.00	49.33	187.00	1.86	0.06	1.00	0.00
49.36	182.82	1.53	0.23	1.00	0.00	49.46	170.44	0.93	0.90	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
49.51	164.49	0.76	1.36	1.00	0.01	49.55	160.49	0.67	1.70	1.00	0.01
49.62	149.94	0.50	2.08	1.00	0.02	49.69	143.36	0.43	2.18	1.00	0.02
49.81	143.82	0.43	2.18	1.00	0.03	49.86	146.27	0.46	2.14	1.00	0.01
49.90	149.89	0.50	2.08	1.00	0.01	49.94	151.07	0.52	2.06	1.00	0.01
50.01	93.37	2.00	0.00	1.00	0.00	50.08	87.77	2.00	0.00	1.00	0.00
50.17	78.12	2.00	0.00	1.00	0.00	50.21	72.28	2.00	0.00	1.00	0.00
50.30	63.35	2.00	0.00	1.00	0.00	50.35	56.57	2.00	0.00	1.00	0.00

Total estimated settlement: 5.13

Abbreviations

$Q_{tn,cs}$:	Equivalent dean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

:: Post-earthquake settlement due to soil liquefaction ::

Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)
5.07	102.84	0.53	2.28	1.00	0.02	5.15	102.74	0.53	2.29	1.00	0.02
5.18	102.57	0.52	2.29	1.00	0.01	5.29	102.02	0.51	2.30	1.00	0.03
5.34	101.39	0.50	2.31	1.00	0.01	5.42	100.52	0.49	2.33	1.00	0.02
5.46	100.68	0.49	2.32	1.00	0.01	5.54	98.94	0.48	2.36	1.00	0.02
5.58	97.70	0.46	2.38	1.00	0.01	5.66	96.10	0.45	2.41	1.00	0.02
5.73	97.08	0.45	2.39	1.00	0.02	5.78	98.78	0.46	2.36	1.00	0.01
5.87	98.15	0.46	2.37	1.00	0.02	5.91	98.05	0.45	2.37	1.00	0.01
6.00	100.65	0.47	2.32	1.00	0.02	6.04	101.34	0.47	2.31	1.00	0.01
6.13	103.64	2.00	0.00	1.00	0.00	6.21	102.89	2.00	0.00	1.00	0.00
6.28	99.93	0.45	2.34	1.00	0.02	6.31	97.87	0.44	2.38	1.00	0.01
6.39	93.32	0.41	2.47	1.00	0.03	6.44	91.40	0.39	2.52	1.00	0.01
6.57	79.42	0.33	2.82	1.00	0.04	6.62	76.22	0.31	2.92	1.00	0.02
6.65	77.46	0.32	2.88	1.00	0.01	6.70	78.93	0.32	2.84	1.00	0.02
6.79	79.76	0.32	2.81	1.00	0.03	6.83	81.39	0.33	2.77	1.00	0.01
6.92	84.43	0.34	2.68	1.00	0.03	6.96	83.76	0.34	2.70	1.00	0.01
7.05	79.57	0.32	2.82	1.00	0.03	7.12	75.50	0.30	2.94	1.00	0.02
7.19	68.61	0.27	3.18	1.00	0.02	7.29	65.03	0.26	3.33	1.00	0.04
7.41	71.49	0.28	3.08	1.00	0.04	7.47	70.85	0.28	3.10	1.00	0.02
7.49	73.72	2.00	0.00	1.00	0.00	7.58	71.27	0.27	3.08	1.00	0.03
7.66	78.95	0.30	2.84	1.00	0.03	7.71	83.58	2.00	0.00	1.00	0.00
7.75	87.69	2.00	0.00	1.00	0.00	7.83	94.87	2.00	0.00	1.00	0.00
7.88	98.68	2.00	0.00	1.00	0.00	7.97	103.27	0.43	2.28	1.00	0.02
8.02	104.68	0.44	2.25	1.00	0.01	8.11	111.56	0.49	2.14	1.00	0.02
8.16	115.93	0.53	2.07	1.00	0.01	8.26	119.80	0.56	2.02	1.00	0.02
8.30	120.85	0.57	2.00	1.00	0.01	8.36	120.94	0.57	2.00	1.00	0.02
8.41	121.04	0.57	2.00	1.00	0.01	8.50	120.98	0.56	2.00	1.00	0.02
8.55	121.02	0.56	2.00	1.00	0.01	8.65	115.49	0.51	2.08	1.00	0.03
8.69	112.83	0.49	2.12	1.00	0.01	8.75	103.86	0.42	2.27	1.00	0.02
8.81	91.42	0.34	2.52	1.00	0.02	8.90	76.29	2.00	0.00	1.00	0.00
8.94	69.27	2.00	0.00	1.00	0.00	9.03	59.63	2.00	0.00	1.00	0.00
9.09	58.19	2.00	0.00	1.00	0.00	9.15	57.81	2.00	0.00	1.00	0.00
9.19	57.40	2.00	0.00	1.00	0.00	9.25	57.62	2.00	0.00	1.00	0.00
9.34	58.38	2.00	0.00	1.00	0.00	9.41	61.36	2.00	0.00	1.00	0.00
9.51	71.41	2.00	0.00	1.00	0.00	9.57	75.84	2.00	0.00	1.00	0.00
9.70	83.25	2.00	0.00	1.00	0.00	9.74	84.02	2.00	0.00	1.00	0.00
9.81	84.66	2.00	0.00	1.00	0.00	9.87	84.85	2.00	0.00	1.00	0.00
9.93	85.50	2.00	0.00	1.00	0.00	9.99	86.42	2.00	0.00	1.00	0.00
10.05	86.74	2.00	0.00	1.00	0.00	10.13	86.80	2.00	0.00	1.00	0.00
10.18	85.74	2.00	0.00	1.00	0.00	10.31	83.16	2.00	0.00	1.00	0.00
10.36	80.93	2.00	0.00	1.00	0.00	10.42	69.30	0.24	3.16	1.00	0.02
10.49	73.88	2.00	0.00	1.00	0.00	10.55	78.18	2.00	0.00	1.00	0.00
10.62	82.54	0.28	2.73	1.00	0.02	10.69	87.66	2.00	0.00	1.00	0.00
10.70	85.35	0.29	2.66	1.00	0.00	10.76	88.89	0.31	2.57	1.00	0.02
10.86	92.40	0.32	2.49	1.00	0.03	10.91	92.70	0.32	2.49	1.00	0.02
10.96	91.83	0.32	2.51	1.00	0.02	11.03	90.34	0.31	2.54	1.00	0.02
11.12	91.81	0.32	2.51	1.00	0.03	11.17	89.83	0.31	2.55	1.00	0.02
11.25	92.52	0.32	2.49	1.00	0.02	11.30	94.70	0.33	2.44	1.00	0.01
11.42	95.28	0.33	2.43	1.00	0.04	11.47	93.36	0.32	2.47	1.00	0.02

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)
11.53	94.42	0.33	2.45	1.00	0.02	11.58	96.59	0.34	2.40	1.00	0.02
11.64	97.83	0.34	2.38	1.00	0.02	11.69	100.62	0.36	2.32	1.00	0.01
11.75	103.60	0.38	2.27	1.00	0.02	11.86	110.73	0.42	2.15	1.00	0.03
11.91	114.12	0.44	2.10	1.00	0.01	11.95	117.09	0.47	2.05	1.00	0.01
12.01	121.86	0.50	1.99	1.00	0.01	12.13	130.10	0.58	1.88	1.00	0.03
12.17	132.04	0.60	1.86	1.00	0.01	12.24	130.13	0.58	1.88	1.00	0.02
12.30	125.52	0.53	1.94	1.00	0.01	12.35	123.47	0.51	1.97	1.00	0.01
12.50	119.46	0.48	2.02	1.00	0.04	12.57	119.18	0.48	2.02	1.00	0.02
12.61	118.26	0.47	2.04	1.00	0.01	12.66	118.48	0.47	2.03	1.00	0.01
12.70	120.02	0.48	2.01	1.00	0.01	12.76	120.62	0.49	2.00	1.00	0.01
12.81	119.48	0.48	2.02	1.00	0.01	12.88	117.31	0.46	2.05	1.00	0.02
12.97	112.26	2.00	0.00	1.00	0.00	13.03	105.93	2.00	0.00	1.00	0.00
13.07	100.93	2.00	0.00	1.00	0.00	13.14	91.14	2.00	0.00	1.00	0.00
13.23	68.02	2.00	0.00	1.00	0.00	13.29	66.97	2.00	0.00	1.00	0.00
13.34	64.33	2.00	0.00	1.00	0.00	13.41	60.82	2.00	0.00	1.00	0.00
13.46	59.36	2.00	0.00	1.00	0.00	13.52	58.61	2.00	0.00	1.00	0.00
13.59	59.32	2.00	0.00	1.00	0.00	13.65	59.55	2.00	0.00	1.00	0.00
13.73	59.66	2.00	0.00	1.00	0.00	13.81	59.78	2.00	0.00	1.00	0.00
13.88	59.87	2.00	0.00	1.00	0.00	13.92	59.31	2.00	0.00	1.00	0.00
14.00	56.97	2.00	0.00	1.00	0.00	14.08	55.97	2.00	0.00	1.00	0.00
14.12	55.17	2.00	0.00	1.00	0.00	14.21	52.00	2.00	0.00	1.00	0.00
14.26	50.21	2.00	0.00	1.00	0.00	14.35	48.38	2.00	0.00	1.00	0.00
14.39	47.08	2.00	0.00	1.00	0.00	14.47	46.47	2.00	0.00	1.00	0.00
14.52	46.19	2.00	0.00	1.00	0.00	14.61	46.57	2.00	0.00	1.00	0.00
14.66	46.45	2.00	0.00	1.00	0.00	14.74	47.41	2.00	0.00	1.00	0.00
14.79	48.01	2.00	0.00	1.00	0.00	14.87	48.78	2.00	0.00	1.00	0.00
14.91	50.33	2.00	0.00	1.00	0.00	14.97	53.03	2.00	0.00	1.00	0.00
15.06	55.85	2.00	0.00	1.00	0.00	15.10	56.92	2.00	0.00	1.00	0.00
15.20	58.42	2.00	0.00	1.00	0.00	15.23	58.72	2.00	0.00	1.00	0.00
15.32	61.69	2.00	0.00	1.00	0.00	15.41	62.42	2.00	0.00	1.00	0.00
15.46	62.69	2.00	0.00	1.00	0.00	15.54	63.42	2.00	0.00	1.00	0.00
15.58	63.45	2.00	0.00	1.00	0.00	15.64	63.05	2.00	0.00	1.00	0.00
15.70	62.43	2.00	0.00	1.00	0.00	15.75	62.07	2.00	0.00	1.00	0.00
15.84	61.73	2.00	0.00	1.00	0.00	15.90	61.72	2.00	0.00	1.00	0.00
15.96	61.72	2.00	0.00	1.00	0.00	16.06	59.84	2.00	0.00	1.00	0.00
16.11	54.89	2.00	0.00	1.00	0.00	16.15	50.95	2.00	0.00	1.00	0.00
16.22	52.29	2.00	0.00	1.00	0.00	16.27	53.51	2.00	0.00	1.00	0.00
16.37	54.80	2.00	0.00	1.00	0.00	16.42	55.51	2.00	0.00	1.00	0.00
16.50	59.28	2.00	0.00	1.00	0.00	16.54	62.59	2.00	0.00	1.00	0.00
16.62	68.01	2.00	0.00	1.00	0.00	16.68	71.56	2.00	0.00	1.00	0.00
16.77	78.40	2.00	0.00	1.00	0.00	16.83	82.38	2.00	0.00	1.00	0.00
16.87	85.10	2.00	0.00	1.00	0.00	16.95	93.34	2.00	0.00	1.00	0.00
17.03	101.69	2.00	0.00	1.00	0.00	17.07	104.77	2.00	0.00	1.00	0.00
17.16	109.33	2.00	0.00	1.00	0.00	17.21	110.18	2.00	0.00	1.00	0.00
17.30	109.17	0.37	2.17	1.00	0.02	17.33	108.79	0.36	2.18	1.00	0.01
17.43	109.47	0.37	2.17	1.00	0.02	17.47	110.33	0.37	2.16	1.00	0.01
17.55	112.69	0.39	2.12	1.00	0.02	17.62	113.56	0.39	2.11	1.00	0.02
17.66	113.67	0.39	2.10	1.00	0.01	17.75	114.39	0.40	2.09	1.00	0.02

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)
17.79	115.59	0.40	2.07	1.00	0.01	17.87	118.69	0.43	2.03	1.00	0.02
17.95	120.55	0.44	2.00	1.00	0.02	18.00	120.57	0.44	2.00	1.00	0.01
18.09	119.75	0.43	2.02	1.00	0.02	18.13	117.09	0.41	2.05	1.00	0.01
18.18	114.65	0.40	2.09	1.00	0.01	18.26	108.66	0.36	2.18	1.00	0.02
18.31	106.47	0.35	2.22	1.00	0.01	18.40	105.29	0.34	2.24	1.00	0.02
18.44	104.97	0.34	2.25	1.00	0.01	18.53	106.10	0.34	2.23	1.00	0.02
18.57	106.90	0.35	2.21	1.00	0.01	18.66	108.75	0.36	2.18	1.00	0.02
18.70	110.13	0.37	2.16	1.00	0.01	18.80	113.29	0.39	2.11	1.00	0.02
18.84	114.97	0.40	2.08	1.00	0.01	18.90	116.25	0.40	2.07	1.00	0.02
19.01	118.58	0.42	2.03	1.00	0.03	19.06	120.09	0.43	2.01	1.00	0.01
19.11	122.40	0.45	1.98	1.00	0.01	19.20	109.44	0.36	2.17	1.00	0.02
19.31	114.90	0.39	2.09	1.00	0.03	19.37	117.92	0.41	2.04	1.00	0.01
19.41	120.31	0.43	2.01	1.00	0.01	19.46	120.42	0.43	2.01	1.00	0.01
19.51	122.37	0.45	1.98	1.00	0.01	19.55	122.70	0.45	1.98	1.00	0.01
19.65	127.51	0.49	1.91	1.00	0.02	19.69	129.13	0.50	1.89	1.00	0.01
19.78	132.92	0.53	1.85	1.00	0.02	19.82	134.69	0.55	1.83	1.00	0.01
19.91	137.03	0.57	1.80	1.00	0.02	19.96	139.45	0.59	1.78	1.00	0.01
20.04	142.19	0.62	1.75	1.00	0.02	20.09	143.88	0.63	1.73	1.00	0.01
20.17	144.11	0.64	1.73	1.00	0.02	20.22	143.72	0.63	1.74	1.00	0.01
20.30	142.33	0.62	1.75	1.00	0.02	20.37	141.00	0.60	1.76	1.00	0.02
20.44	139.88	0.59	1.77	1.00	0.02	20.49	139.01	0.58	1.78	1.00	0.01
20.57	138.56	0.58	1.79	1.00	0.02	20.61	137.96	0.57	1.79	1.00	0.01
20.70	136.28	0.56	1.81	1.00	0.02	20.74	135.19	0.55	1.82	1.00	0.01
20.83	132.22	0.52	1.86	1.00	0.02	20.90	130.03	0.50	1.88	1.00	0.01
20.95	128.84	0.49	1.90	1.00	0.01	21.03	126.69	0.47	1.92	1.00	0.02
21.08	125.95	0.47	1.93	1.00	0.01	21.16	125.77	0.47	1.94	1.00	0.02
21.20	123.54	0.45	1.96	1.00	0.01	21.29	118.29	0.41	2.04	1.00	0.02
21.35	114.09	0.38	2.10	1.00	0.01	21.40	108.65	0.35	2.18	1.00	0.01
21.49	107.44	0.34	2.20	1.00	0.02	21.54	108.10	0.35	2.19	1.00	0.01
21.59	110.01	0.36	2.16	1.00	0.01	21.66	112.76	0.38	2.12	1.00	0.02
21.76	118.49	0.41	2.03	1.00	0.02	21.82	121.72	0.44	1.99	1.00	0.01
21.89	108.92	0.35	2.18	1.00	0.02	21.95	108.53	0.35	2.19	1.00	0.02
22.03	112.66	0.37	2.12	1.00	0.02	22.08	120.36	2.00	0.00	1.00	0.00
22.15	128.28	2.00	0.00	1.00	0.00	22.20	131.02	0.51	1.87	1.00	0.01
22.26	134.85	0.54	1.83	1.00	0.01	22.32	137.62	0.57	1.80	1.00	0.01
22.39	138.94	0.58	1.78	1.00	0.01	22.45	138.04	0.57	1.79	1.00	0.01
22.52	134.47	0.54	1.83	1.00	0.01	22.61	127.32	0.48	1.92	1.00	0.02
22.65	124.12	0.45	1.96	1.00	0.01	22.74	118.10	2.00	0.00	1.00	0.00
22.79	114.37	2.00	0.00	1.00	0.00	22.88	108.60	2.00	0.00	1.00	0.00
22.92	106.14	2.00	0.00	1.00	0.00	23.02	98.20	2.00	0.00	1.00	0.00
23.08	95.23	2.00	0.00	1.00	0.00	23.13	93.02	2.00	0.00	1.00	0.00
23.19	94.15	2.00	0.00	1.00	0.00	23.24	95.76	2.00	0.00	1.00	0.00
23.31	102.27	2.00	0.00	1.00	0.00	23.36	105.79	2.00	0.00	1.00	0.00
23.46	108.88	2.00	0.00	1.00	0.00	23.58	117.84	2.00	0.00	1.00	0.00
23.63	120.53	2.00	0.00	1.00	0.00	23.71	124.73	2.00	0.00	1.00	0.00
23.77	127.37	2.00	0.00	1.00	0.00	23.85	130.32	2.00	0.00	1.00	0.00
23.90	129.86	0.49	1.89	1.00	0.01	24.02	129.89	0.49	1.89	1.00	0.03
24.10	127.00	0.47	1.92	1.00	0.02	24.15	123.19	0.44	1.97	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)
24.21	115.68	0.39	2.07	1.00	0.02	24.28	108.11	0.34	2.19	1.00	0.02
24.35	107.89	0.34	2.20	1.00	0.02	24.42	85.10	0.24	2.67	1.00	0.02
24.54	97.67	0.29	2.38	1.00	0.04	24.59	99.49	0.30	2.35	1.00	0.02
24.66	101.53	0.31	2.31	1.00	0.02	24.70	102.37	0.31	2.29	1.00	0.01
24.75	103.51	0.32	2.27	1.00	0.01	24.84	105.69	0.33	2.23	1.00	0.02
24.88	107.12	0.34	2.21	1.00	0.01	24.97	109.89	0.35	2.16	1.00	0.02
25.01	111.32	0.36	2.14	1.00	0.01	25.10	111.52	0.36	2.14	1.00	0.02
25.15	111.01	0.36	2.14	1.00	0.01	25.21	109.59	0.35	2.17	1.00	0.01
25.27	107.68	0.34	2.20	1.00	0.02	25.36	103.82	0.32	2.27	1.00	0.03
25.40	101.67	0.31	2.31	1.00	0.01	25.49	98.62	0.29	2.36	1.00	0.03
25.54	97.84	0.29	2.38	1.00	0.01	25.64	99.92	0.30	2.34	1.00	0.03
25.70	100.49	2.00	0.00	1.00	0.00	25.76	100.60	2.00	0.00	1.00	0.00
25.81	96.70	2.00	0.00	1.00	0.00	25.87	92.64	2.00	0.00	1.00	0.00
25.94	88.56	2.00	0.00	1.00	0.00	25.99	84.05	2.00	0.00	1.00	0.00
26.11	69.55	2.00	0.00	1.00	0.00	26.14	66.36	2.00	0.00	1.00	0.00
26.21	60.86	2.00	0.00	1.00	0.00	26.26	57.45	2.00	0.00	1.00	0.00
26.37	57.07	2.00	0.00	1.00	0.00	26.42	57.19	2.00	0.00	1.00	0.00
26.47	57.34	2.00	0.00	1.00	0.00	26.55	57.84	2.00	0.00	1.00	0.00
26.60	58.14	2.00	0.00	1.00	0.00	26.67	58.66	2.00	0.00	1.00	0.00
26.73	58.44	2.00	0.00	1.00	0.00	26.80	57.75	2.00	0.00	1.00	0.00
26.86	57.12	2.00	0.00	1.00	0.00	26.91	56.59	2.00	0.00	1.00	0.00
26.99	55.16	2.00	0.00	1.00	0.00	27.04	51.84	2.00	0.00	1.00	0.00
27.12	47.89	2.00	0.00	1.00	0.00	27.17	49.26	2.00	0.00	1.00	0.00
27.25	52.63	2.00	0.00	1.00	0.00	27.30	53.21	2.00	0.00	1.00	0.00
27.36	53.95	2.00	0.00	1.00	0.00	27.44	55.25	2.00	0.00	1.00	0.00
27.55	56.83	2.00	0.00	1.00	0.00	27.58	57.20	2.00	0.00	1.00	0.00
27.64	57.55	2.00	0.00	1.00	0.00	27.73	60.35	2.00	0.00	1.00	0.00
27.78	62.44	2.00	0.00	1.00	0.00	27.82	62.73	2.00	0.00	1.00	0.00
27.97	61.25	2.00	0.00	1.00	0.00	28.01	59.93	2.00	0.00	1.00	0.00
28.06	58.00	2.00	0.00	1.00	0.00	28.15	54.86	2.00	0.00	1.00	0.00
28.20	54.61	2.00	0.00	1.00	0.00	28.29	55.26	2.00	0.00	1.00	0.00
28.35	55.38	2.00	0.00	1.00	0.00	28.41	56.43	2.00	0.00	1.00	0.00
28.45	57.51	2.00	0.00	1.00	0.00	28.50	58.80	2.00	0.00	1.00	0.00
28.59	61.91	2.00	0.00	1.00	0.00	28.63	63.33	2.00	0.00	1.00	0.00
28.72	67.40	2.00	0.00	1.00	0.00	28.77	70.02	2.00	0.00	1.00	0.00
28.83	72.78	2.00	0.00	1.00	0.00	28.89	75.26	2.00	0.00	1.00	0.00
29.00	76.32	2.00	0.00	1.00	0.00	29.06	76.60	2.00	0.00	1.00	0.00
29.11	77.01	2.00	0.00	1.00	0.00	29.16	78.57	2.00	0.00	1.00	0.00
29.24	81.02	2.00	0.00	1.00	0.00	29.29	84.38	2.00	0.00	1.00	0.00
29.34	88.69	2.00	0.00	1.00	0.00	29.40	93.57	2.00	0.00	1.00	0.00
29.47	94.01	2.00	0.00	1.00	0.00	29.59	83.54	2.00	0.00	1.00	0.00
29.64	74.95	2.00	0.00	1.00	0.00	29.70	67.10	0.18	3.24	1.00	0.02
29.74	68.15	0.19	3.20	1.00	0.01	29.82	71.23	0.19	3.09	1.00	0.03
29.87	73.13	0.20	3.02	1.00	0.02	29.95	69.82	0.19	3.14	1.00	0.03
30.05	65.43	0.18	3.31	1.00	0.04	30.18	81.40	0.22	2.77	1.00	0.04
30.26	85.23	2.00	0.00	1.00	0.00	30.30	87.06	2.00	0.00	1.00	0.00
30.32	88.23	2.00	0.00	1.00	0.00	30.34	87.80	2.00	0.00	1.00	0.00
30.40	85.98	2.00	0.00	1.00	0.00	30.47	83.22	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)
30.52	81.72	2.00	0.00	1.00	0.00	30.60	78.83	2.00	0.00	1.00	0.00
30.66	75.96	2.00	0.00	1.00	0.00	30.73	72.94	2.00	0.00	1.00	0.00
30.82	72.28	2.00	0.00	1.00	0.00	30.87	69.28	2.00	0.00	1.00	0.00
30.92	68.45	2.00	0.00	1.00	0.00	31.04	68.42	2.00	0.00	1.00	0.00
31.09	69.09	2.00	0.00	1.00	0.00	31.17	68.94	2.00	0.00	1.00	0.00
31.22	68.90	2.00	0.00	1.00	0.00	31.29	68.59	2.00	0.00	1.00	0.00
31.35	68.24	2.00	0.00	1.00	0.00	31.40	68.30	2.00	0.00	1.00	0.00
31.48	68.60	2.00	0.00	1.00	0.00	31.53	68.58	2.00	0.00	1.00	0.00
31.58	68.82	2.00	0.00	1.00	0.00	31.74	72.41	2.00	0.00	1.00	0.00
31.80	74.24	2.00	0.00	1.00	0.00	31.86	74.99	2.00	0.00	1.00	0.00
31.92	75.07	2.00	0.00	1.00	0.00	31.98	74.91	2.00	0.00	1.00	0.00
32.04	75.64	2.00	0.00	1.00	0.00	32.10	77.67	2.00	0.00	1.00	0.00
32.16	80.17	2.00	0.00	1.00	0.00	32.23	82.86	2.00	0.00	1.00	0.00
32.29	87.56	2.00	0.00	1.00	0.00	32.36	93.11	2.00	0.00	1.00	0.00
32.42	95.65	2.00	0.00	1.00	0.00	32.49	97.87	2.00	0.00	1.00	0.00
32.62	100.23	2.00	0.00	1.00	0.00	32.68	101.92	2.00	0.00	1.00	0.00
32.74	101.45	2.00	0.00	1.00	0.00	32.81	99.64	2.00	0.00	1.00	0.00
32.87	98.90	2.00	0.00	1.00	0.00	32.93	99.41	2.00	0.00	1.00	0.00
32.98	102.43	2.00	0.00	1.00	0.00	33.05	107.87	2.00	0.00	1.00	0.00
33.12	92.80	2.00	0.00	1.00	0.00	33.19	87.25	2.00	0.00	1.00	0.00
33.25	93.52	2.00	0.00	1.00	0.00	33.30	98.86	2.00	0.00	1.00	0.00
33.38	104.33	2.00	0.00	1.00	0.00	33.43	107.83	2.00	0.00	1.00	0.00
33.50	113.35	2.00	0.00	1.00	0.00	33.55	116.68	2.00	0.00	1.00	0.00
33.61	120.58	2.00	0.00	1.00	0.00	33.68	122.87	2.00	0.00	1.00	0.00
33.75	122.66	2.00	0.00	1.00	0.00	33.81	123.03	2.00	0.00	1.00	0.00
33.89	119.61	2.00	0.00	1.00	0.00	33.94	116.06	2.00	0.00	1.00	0.00
34.07	130.81	2.00	0.00	1.00	0.00	34.12	131.94	2.00	0.00	1.00	0.00
34.18	131.52	2.00	0.00	1.00	0.00	34.29	127.24	2.00	0.00	1.00	0.00
34.38	123.06	2.00	0.00	1.00	0.00	34.43	122.15	0.43	1.98	1.00	0.01
34.55	132.39	0.51	1.86	1.00	0.03	34.61	138.39	0.56	1.79	1.00	0.01
34.69	147.55	2.00	0.00	1.00	0.00	34.75	153.81	2.00	0.00	1.00	0.00
34.82	157.42	2.00	0.00	1.00	0.00	34.88	156.37	2.00	0.00	1.00	0.00
34.95	148.25	2.00	0.00	1.00	0.00	35.07	136.84	2.00	0.00	1.00	0.00
35.14	138.40	2.00	0.00	1.00	0.00	35.20	142.52	2.00	0.00	1.00	0.00
35.26	142.51	2.00	0.00	1.00	0.00	35.33	143.86	2.00	0.00	1.00	0.00
35.39	142.29	2.00	0.00	1.00	0.00	35.46	140.24	2.00	0.00	1.00	0.00
35.53	138.90	0.57	1.78	1.00	0.01	35.57	137.07	0.55	1.80	1.00	0.01
35.64	136.13	0.54	1.81	1.00	0.02	35.70	133.71	0.52	1.84	1.00	0.01
35.77	130.90	0.50	1.87	1.00	0.02	35.83	130.07	0.49	1.88	1.00	0.01
35.89	124.26	0.45	1.96	1.00	0.01	35.97	125.14	0.45	1.94	1.00	0.02
36.01	126.86	0.47	1.92	1.00	0.01	36.14	129.27	0.49	1.89	1.00	0.03
36.19	125.48	0.46	1.94	1.00	0.01	36.23	125.30	0.45	1.94	1.00	0.01
36.30	125.80	0.46	1.94	1.00	0.02	36.36	126.62	0.46	1.93	1.00	0.01
36.45	127.54	0.47	1.91	1.00	0.02	36.50	131.76	0.51	1.86	1.00	0.01
36.62	135.38	0.54	1.82	1.00	0.03	36.67	137.81	0.56	1.80	1.00	0.01
36.72	139.74	0.58	1.78	1.00	0.01	36.80	141.29	0.59	1.76	1.00	0.02
36.84	143.84	0.62	1.73	1.00	0.01	36.91	146.47	0.64	1.71	1.00	0.01
36.97	151.14	0.69	1.37	1.00	0.01	37.02	156.93	0.76	1.05	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)
37.10	163.26	0.84	0.99	1.00	0.01	37.15	168.09	0.90	0.73	1.00	0.00
37.24	175.16	1.00	0.52	1.00	0.01	37.29	180.48	1.08	0.38	1.00	0.00
37.39	197.94	1.39	0.00	1.00	0.00	37.46	208.06	2.00	0.00	1.00	0.00
37.51	217.35	2.00	0.00	1.00	0.00	37.55	223.81	2.00	0.00	1.00	0.00
37.65	230.55	2.00	0.00	1.00	0.00	37.68	232.09	2.00	0.00	1.00	0.00
37.76	231.90	2.00	0.00	1.00	0.00	37.81	231.18	2.00	0.00	1.00	0.00
37.90	228.15	2.00	0.00	1.00	0.00	37.95	227.38	2.00	0.00	1.00	0.00
38.03	226.41	2.00	0.00	1.00	0.00	38.10	222.75	2.00	0.00	1.00	0.00
38.17	215.61	2.00	0.00	1.00	0.00	38.24	207.17	2.00	0.00	1.00	0.00
38.30	195.94	1.35	0.00	1.00	0.00	38.38	183.31	1.13	0.37	1.00	0.00
38.43	170.43	0.94	0.71	1.00	0.00	38.52	157.15	0.76	1.05	1.00	0.01
38.57	148.25	0.66	1.41	1.00	0.01	38.66	139.23	0.57	1.78	1.00	0.02
38.71	119.35	0.41	2.02	1.00	0.01	38.78	109.55	0.35	2.17	1.00	0.02
38.85	104.71	0.32	2.25	1.00	0.02	38.92	100.73	0.30	2.32	1.00	0.02
39.01	98.41	0.29	2.37	1.00	0.03	39.02	100.28	0.30	2.33	1.00	0.01
39.04	99.19	0.30	2.35	1.00	0.01	39.13	103.22	0.32	2.28	1.00	0.02
39.18	108.43	2.00	0.00	1.00	0.00	39.28	115.06	2.00	0.00	1.00	0.00
39.34	116.38	2.00	0.00	1.00	0.00	39.39	116.31	2.00	0.00	1.00	0.00
39.45	115.54	2.00	0.00	1.00	0.00	39.54	116.33	2.00	0.00	1.00	0.00
39.59	117.58	2.00	0.00	1.00	0.00	39.66	122.59	2.00	0.00	1.00	0.00
39.71	123.99	2.00	0.00	1.00	0.00	39.81	127.25	2.00	0.00	1.00	0.00
39.92	130.39	2.00	0.00	1.00	0.00	39.97	130.76	0.50	1.88	1.00	0.01
40.02	132.74	0.52	1.85	1.00	0.01	40.10	134.92	0.54	1.83	1.00	0.02
40.15	136.72	0.55	1.81	1.00	0.01	40.25	152.31	0.71	1.35	1.00	0.02
40.32	159.47	0.80	1.03	1.00	0.01	40.37	167.88	0.91	0.73	1.00	0.00
40.44	175.13	1.01	0.52	1.00	0.00	40.50	180.18	1.09	0.38	1.00	0.00
40.54	185.50	1.18	0.26	1.00	0.00	40.67	195.94	1.36	0.00	1.00	0.00
40.72	198.33	1.41	0.00	1.00	0.00	40.77	199.85	1.44	0.00	1.00	0.00
40.90	198.33	1.41	0.00	1.00	0.00	40.94	198.18	1.40	0.00	1.00	0.00
41.01	196.46	1.37	0.00	1.00	0.00	41.07	194.54	1.34	0.18	1.00	0.00
41.25	199.18	1.43	0.00	1.00	0.00	41.38	197.41	1.39	0.00	1.00	0.00
41.45	195.32	1.35	0.00	1.00	0.00	41.52	195.27	1.35	0.00	1.00	0.00
41.57	194.55	1.34	0.18	1.00	0.00	41.64	192.42	1.30	0.18	1.00	0.00
41.70	193.64	1.32	0.18	1.00	0.00	41.77	191.63	1.29	0.18	1.00	0.00
41.83	187.91	1.22	0.26	1.00	0.00	41.88	177.84	1.06	0.38	1.00	0.00
41.89	167.91	0.91	0.73	1.00	0.00	41.95	173.38	0.99	0.53	1.00	0.00
42.00	170.68	0.95	0.54	1.00	0.00	42.09	166.07	0.89	0.74	1.00	0.01
42.13	163.52	0.86	0.76	1.00	0.00	42.21	155.61	0.76	1.07	1.00	0.01
42.26	152.40	0.72	1.35	1.00	0.01	42.35	147.38	0.66	1.42	1.00	0.02
42.46	145.87	0.65	1.71	1.00	0.02	42.52	147.34	0.66	1.42	1.00	0.01
42.57	147.55	0.67	1.42	1.00	0.01	42.61	146.53	0.66	1.43	1.00	0.01
42.66	144.13	0.63	1.73	1.00	0.01	42.75	140.84	2.00	0.00	1.00	0.00
42.80	139.72	2.00	0.00	1.00	0.00	42.90	140.85	2.00	0.00	1.00	0.00
43.01	139.22	2.00	0.00	1.00	0.00	43.06	133.01	0.53	1.85	1.00	0.01
43.10	127.16	0.48	1.92	1.00	0.01	43.15	126.62	0.47	1.93	1.00	0.01
43.25	131.88	0.52	1.86	1.00	0.02	43.32	134.01	0.54	1.84	1.00	0.01
43.36	136.61	0.56	1.81	1.00	0.01	43.41	139.13	0.58	1.78	1.00	0.01
43.47	142.44	0.62	1.75	1.00	0.01	43.51	144.68	0.64	1.73	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)
43.68	147.78	0.67	1.41	1.00	0.03	43.72	147.47	0.67	1.42	1.00	0.01
43.78	147.16	0.67	1.42	1.00	0.01	43.81	146.71	0.66	1.43	1.00	0.01
43.89	147.07	0.67	1.42	1.00	0.01	43.94	147.69	0.67	1.41	1.00	0.01
43.98	148.20	0.68	1.41	1.00	0.01	44.04	149.27	0.69	1.39	1.00	0.01
44.11	151.06	0.71	1.37	1.00	0.01	44.20	155.87	0.77	1.06	1.00	0.01
44.25	160.06	0.82	1.02	1.00	0.01	44.31	165.37	0.89	0.74	1.00	0.00
44.38	173.27	1.00	0.53	1.00	0.00	44.43	182.60	1.15	0.37	1.00	0.00
44.51	192.18	1.32	0.18	1.00	0.00	44.56	196.62	1.40	0.00	1.00	0.00
44.64	194.42	1.36	0.00	1.00	0.00	44.69	194.39	1.36	0.00	1.00	0.00
44.77	192.48	1.33	0.18	1.00	0.00	44.86	188.80	1.26	0.18	1.00	0.00
44.90	187.32	1.23	0.26	1.00	0.00	44.95	186.08	1.21	0.26	1.00	0.00
45.03	183.01	1.16	0.27	1.00	0.00	45.12	174.32	1.02	0.53	1.00	0.01
45.17	163.01	0.86	0.76	1.00	0.00	45.23	152.05	0.73	1.36	1.00	0.01
45.35	138.86	0.59	1.79	1.00	0.02	45.43	134.08	0.54	1.84	1.00	0.02
45.49	131.61	0.52	1.87	1.00	0.01	45.56	137.82	2.00	0.00	1.00	0.00
45.61	140.07	2.00	0.00	1.00	0.00	45.69	135.55	2.00	0.00	1.00	0.00
45.74	137.30	2.00	0.00	1.00	0.00	45.87	142.57	2.00	0.00	1.00	0.00
45.93	142.53	2.00	0.00	1.00	0.00	46.05	143.35	2.00	0.00	1.00	0.00
46.18	145.67	2.00	0.00	1.00	0.00	46.23	146.34	2.00	0.00	1.00	0.00
46.31	148.60	2.00	0.00	1.00	0.00	46.37	150.09	2.00	0.00	1.00	0.00
46.49	156.18	2.00	0.00	1.00	0.00	46.58	162.62	2.00	0.00	1.00	0.00
46.62	166.29	2.00	0.00	1.00	0.00	46.68	170.78	2.00	0.00	1.00	0.00
46.76	179.42	2.00	0.00	1.00	0.00	46.81	159.00	2.00	0.00	1.00	0.00
46.89	138.18	0.59	1.79	1.00	0.02	46.94	143.37	0.64	1.74	1.00	0.01
47.02	148.52	0.70	1.40	1.00	0.01	47.08	151.79	0.73	1.36	1.00	0.01
47.12	153.96	0.76	1.08	1.00	0.00	47.21	161.21	0.85	0.77	1.00	0.01
47.25	162.90	0.87	0.76	1.00	0.00	47.32	164.79	0.90	0.75	1.00	0.01
47.39	164.72	0.90	0.75	1.00	0.01	47.46	164.02	0.89	0.75	1.00	0.01
47.53	165.05	0.91	0.75	1.00	0.01	47.61	164.34	0.90	0.75	1.00	0.01
47.66	162.95	0.88	0.76	1.00	0.00	47.75	156.22	0.79	1.06	1.00	0.01
47.78	153.15	0.75	1.09	1.00	0.00	47.88	148.06	0.70	1.41	1.00	0.02
47.92	145.36	0.67	1.45	1.00	0.01	47.97	140.65	0.62	1.77	1.00	0.01
48.05	133.32	0.55	1.85	1.00	0.02	48.11	122.41	0.46	1.98	1.00	0.01
48.19	122.84	0.46	1.97	1.00	0.02	48.24	122.75	0.46	1.98	1.00	0.01
48.32	120.87	0.45	2.00	1.00	0.02	48.36	119.70	2.00	0.00	1.00	0.00
48.45	119.83	2.00	0.00	1.00	0.00	48.53	120.06	2.00	0.00	1.00	0.00
48.58	126.64	2.00	0.00	1.00	0.00	48.71	139.13	2.00	0.00	1.00	0.00
48.76	142.56	2.00	0.00	1.00	0.00	48.80	145.53	2.00	0.00	1.00	0.00
48.85	147.84	2.00	0.00	1.00	0.00	48.89	149.67	2.00	0.00	1.00	0.00
48.96	150.80	2.00	0.00	1.00	0.00	49.05	151.12	2.00	0.00	1.00	0.00
49.08	150.69	2.00	0.00	1.00	0.00	49.16	147.72	0.70	1.41	1.00	0.01
49.24	141.61	0.63	1.76	1.00	0.02	49.28	138.75	0.61	1.79	1.00	0.01
49.38	135.50	0.57	1.82	1.00	0.02	49.42	135.08	0.57	1.83	1.00	0.01
49.49	135.78	0.58	1.82	1.00	0.02	49.57	141.25	0.63	1.76	1.00	0.02
49.62	144.41	0.67	1.46	1.00	0.01	49.69	150.21	0.73	1.38	1.00	0.01
49.77	-1.00	2.00	0.00	1.00	0.00	49.82	-1.00	2.00	0.00	1.00	0.00
49.90	-1.00	2.00	0.00	1.00	0.00	49.95	-1.00	2.00	0.00	1.00	0.00
50.00	-1.00	2.00	0.00	1.00	0.00	50.10	-1.00	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (in)

Total estimated settlement: 5.08

Abbreviations

$Q_{tn,cs}$:	Equivalent clean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

APPENDIX E

REFERENCE NO. 3 EXCERPTS

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-8

JOB NO.: 21G201-2
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 8/3/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 7 feet
CAVE DEPTH: 9 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic concrete; 4± inches Aggregate base							
		11			FILL: Gray Brown Silty fine Sand, mottled, loose-damp to moist	109	10					
		23				112	7					
5		13			ALLUVIUM: Light Gray fine Sand, trace medium to coarse Sand, loose to medium dense-damp	99	2					
		26				92	9					
		16				96	25					
10					Gray Silty Clay, stiff-wet							
					Gray Brown Silty fine Sand, loose-wet							
		8				97	24					
15					Dark Gray Brown Silty Clay, trace Iron oxide staining, medium stiff-wet							
					Gray Brown fine Sandy Silt, trace Clay, little Iron oxide staining, medium dense-wet							
		17	1.5			98	29					
20												
		12	2.5			100	24					
25												
					Gray fine Sandy Silt, little to some Clay, loose-wet							
		6	1.5			103	22					
30					Boring Terminated @ 30'							

TBL 21G201-2.GPJ SOCALGEO.GDT 10/5/21

TEST BORING LOG **PLATE B-4**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-9

JOB NO.: 21G201-2
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 8/3/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 7 feet
CAVE DEPTH: 9 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					4± inches Asphaltic concrete; 5± inches Aggregate base							
		7			FILL: Gray Brown Silty fine Sand, loose-moist		9					
		12			FILL: Gray Brown to Light Gray Brown fine Sand, mottled, medium dense-damp		4					
5		7			ALLUVIUM: Light Gray fine Sand, trace medium Sand, loose-wet		30					
		9	1.0		Gray Brown fine Sandy Silt, little to some Clay, trace Calcareous nodules, loose-wet		32					
10												
		4	1.5		Gray Brown Silty Clay, little Calcareous nodules, trace Iron oxide staining, soft to medium stiff-wet		36					
15												
		15			Gray Brown Silty fine Sand, trace medium to coarse Sand, medium dense-wet		27					
20					Boring Terminated @ 20'							

TBL 21G201-2.GPJ SOCALGEO.GDT 10/5/21

TEST BORING LOG

PLATE B-5

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-10

JOB NO.: 21G201-2
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 8/3/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 8.5 feet
CAVE DEPTH: 26 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic concrete; 5± inches Aggregate base							
		7			FILL: Gray Brown Silty fine Sand, mottled, loose-moist		18					
			4.0		FILL: Dark Gray Clayey fine Sand, mottled, loose-moist		14					
		6			FILL: Gray Brown Silty fine Sand, slightly mottled, loose-damp		9					
5												
		18			ALLUVIUM: Gray Brown fine Sand, trace Silt, 2-inch fine Sand lense, medium dense-damp		7					
		11			Gray Brown Silty fine Sand, trace Iron oxide staining, medium dense-wet		25					
10												
					Gray fine Sand, little Silt, very loose to loose-wet							
		4					26					
15												
					Gray Brown fine Sandy Silt, little Clay, loose-wet							
		8	2.0				27					
20												
					Gray to Gray Brown Interbedded fine Sand and Silty fine Sand, loose-wet							
		8					27					
25												
					Dark Gray Silty Clay, trace Calcareous nodules, stiff-wet							
		10	2.0				26					
30												
					Boring Terminated @ 30'							

TBL 21G201-2.GPJ SOCALGEO.GDT 10/5/21

TEST BORING LOG

PLATE B-6

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-11

JOB NO.: 21G201-2
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 8/3/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 7 feet
CAVE DEPTH: 14 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					4± inches Asphaltic concrete; 5± inches Aggregate base							
		22			FILL: Gray Brown Silty fine Sand, mottled, medium dense-moist	116	12					
		22				108	13					
5		28			ALLUVIUM: Light Gray fine Sand, medium dense-damp	95	4					
		7			Gray Brown fine Sandy Silt, little Iron oxide staining, loose-very moist to wet	92	32					
		13			Gray Brown fine Sand, trace Silt, loose-wet	103	23					
10												
					Gray Brown Silty Clay, trace Calcareous nodules, loose-wet							
		8	2.5			98	27					
15												
					Gray Brown Silty fine Sand, little Iron oxide staining, medium dense-wet							
		18				109	20					
20												
					Boring Terminated @ 20'							

TBL 21G201-2.GPJ SOCALGEO.GDT 10/5/21

TEST BORING LOG

PLATE B-7

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-12

JOB NO.: 21G201-2
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 8/4/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 9 feet
CAVE DEPTH: 16 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					5½± inches Portland cement concrete							
		29	4.5		FILL: Gray Brown to Gray Silty fine Sand, trace Clay nodules, slightly mottled, medium dense-moist	112	14					
		19	4.5			113	12					
5		23	1.5			101	10					
		25			ALLUVIUM: Light Gray fine Sand, medium dense-moist	98	5					
		9			Gray Brown Silty fine Sand, loose-wet	100	23					
10												
					Gray Brown Silty Clay, little fine Sand, little Iron oxide staining, medium stiff-wet							
		11				96	25					
15												
		9	1.0			96	29					
20					Boring Terminated @ 20'							

TBL 21G201-2.GPJ SOCALGEO.GDT 10/5/21

TEST BORING LOG

PLATE B-8

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-13

JOB NO.: 21G201-2
PROJECT: Proposed C/I Development
LOCATION: Cypress, California

DRILLING DATE: 8/4/21
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jamie Hayward

WATER DEPTH: 8.5 feet
CAVE DEPTH: 17 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					6± inches Portland cement concrete							
		15	3.0		FILL: Gray Brown Silty fine Sand, trace medium Sand, trace fine Gravel, 2-inch fine Sand lense, medium dense-moist		14					
		13	2.0				11					
5												
		17	3.0		FILL: Gray Brown Silty Clay, trace fine Sand, mottled, very stiff-very moist		29					
		16			ALLUVIUM: Gray Silty fine Sand, medium dense-wet		22					
10												
		5			Gray fine Sandy Silt, loose-wet		30					
15												
		7	1.5		Gray Silty Clay, little Calcareous nodules, trace Iron oxide staining, medium stiff-wet		36					
20												
					Boring Terminated @ 20'							

TBL 21G201-2.GPJ SOCALGEO.GDT 10/5/21

TEST BORING LOG

PLATE B-9

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-14

JOB NO.: 21G201-2 | DRILLING DATE: 8/3/21 | WATER DEPTH: 5 feet
PROJECT: Proposed C/I Development | DRILLING METHOD: Hollow Stem Auger | CAVE DEPTH: 14 feet
LOCATION: Cypress, California | LOGGED BY: Jamie Hayward | READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic concrete; 5± inches Aggregate base							
		24	4.5		FILL: Gray Brown fine Sandy Clay, little Silt, medium dense-moist	104	19					
		12			ALLUVIUM: Gray Brown Silty fine Sand, loose-moist	102	21					
5		11				95	28					
		8				100	23					
		13			@ 9 feet, wet	97	23					
10												
		11				95	23					
15												
		18	3.0		@ 19 feet, little Clay	97	27					
20												
					Gray Brown fine Sand, little Silt, little Iron oxide staining, medium dense-wet							
		26				108	19					
25												
					Gray Silty Clay, trace Iron oxide staining, medium stiff to stiff-wet							
		12	1.5			99	25					
30												
					Boring Terminated @ 30'							

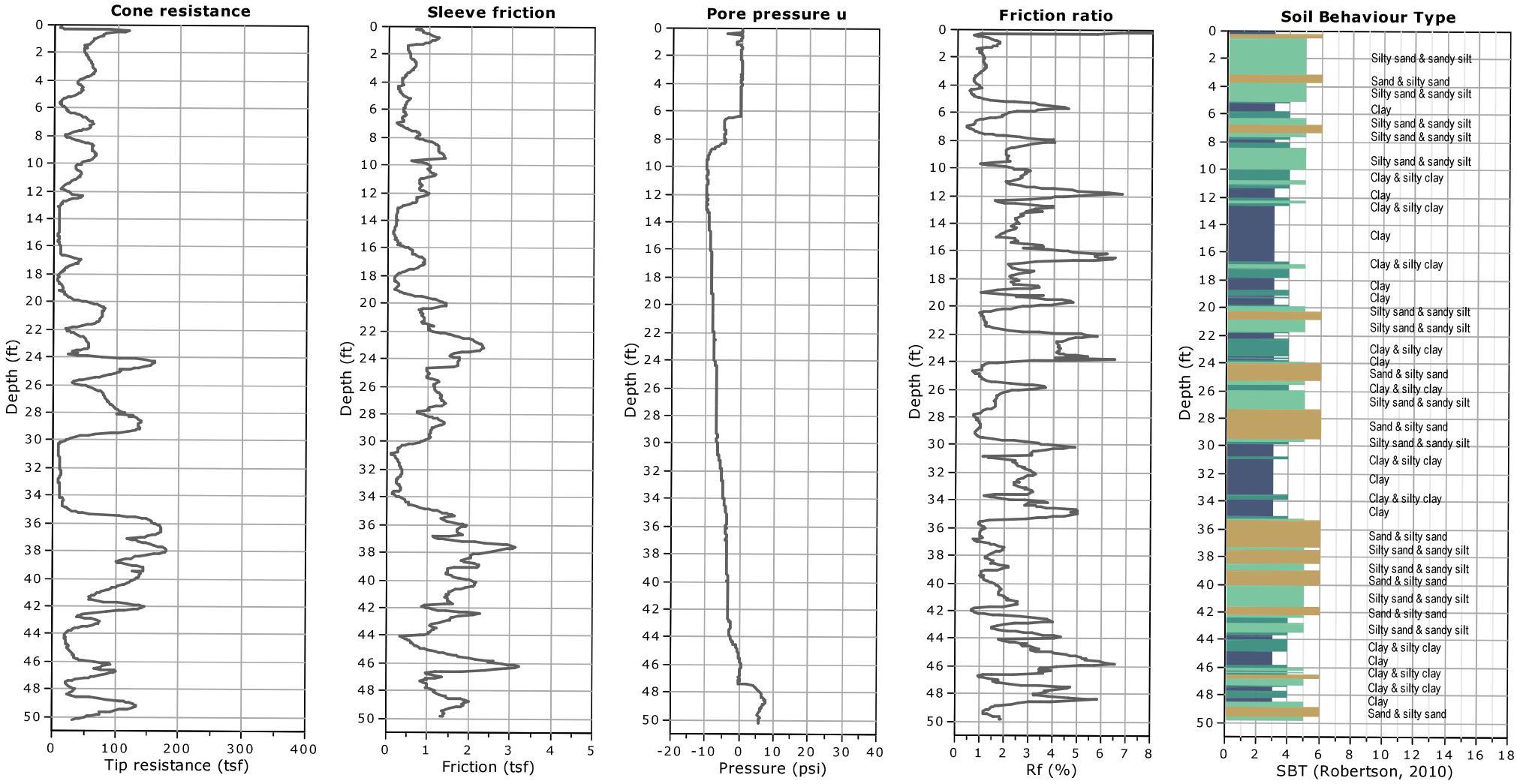
TBL 21G201-2.GPJ SOCALGEO.GDT 10/5/21

TEST BORING LOG **PLATE B-10**

Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

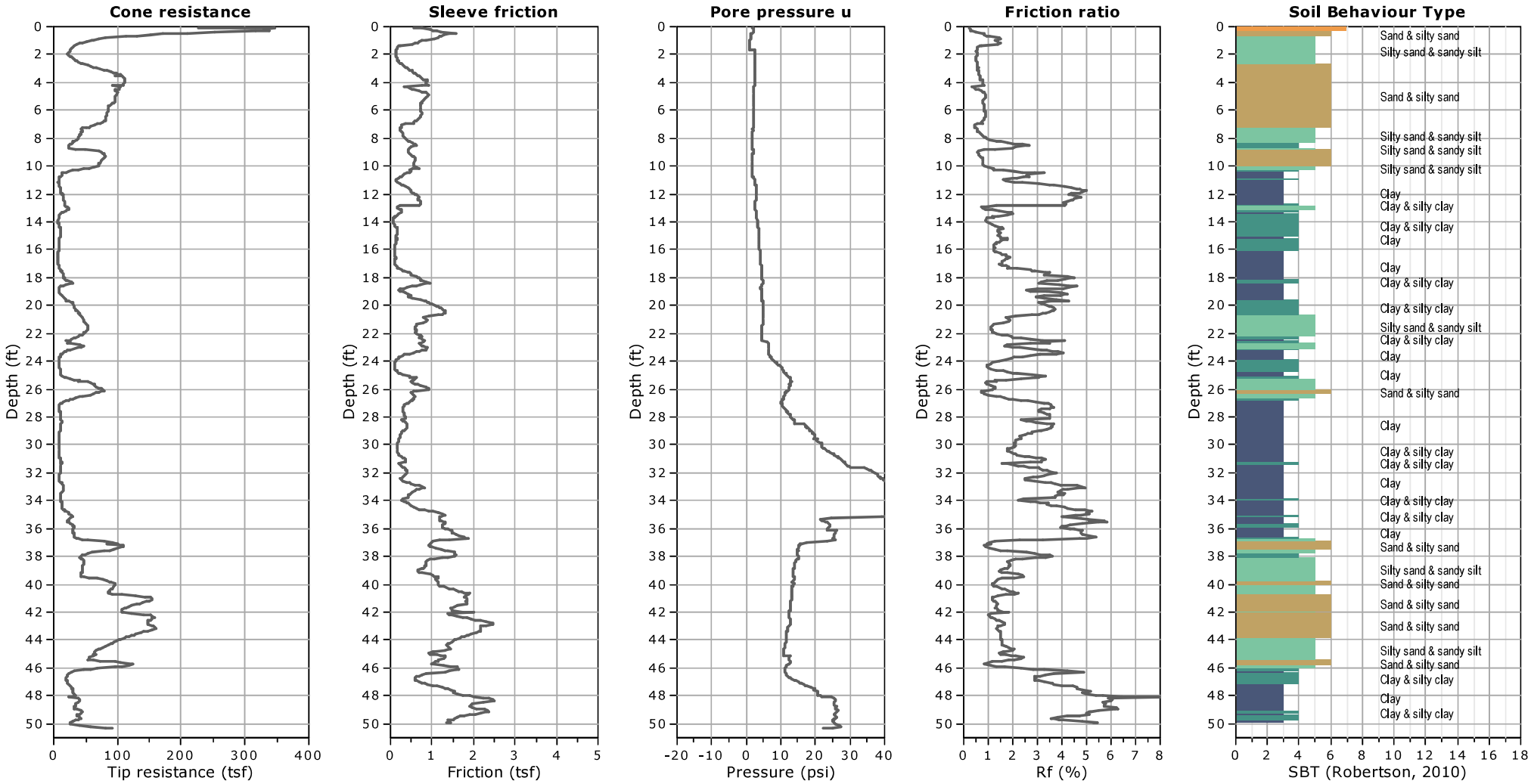
Project: Southern California Geotechnical
Location: 5665 Plaza Dr, Cypress, CA

CPT-1
Total depth: 50.22 ft, Date: 4/2/2021



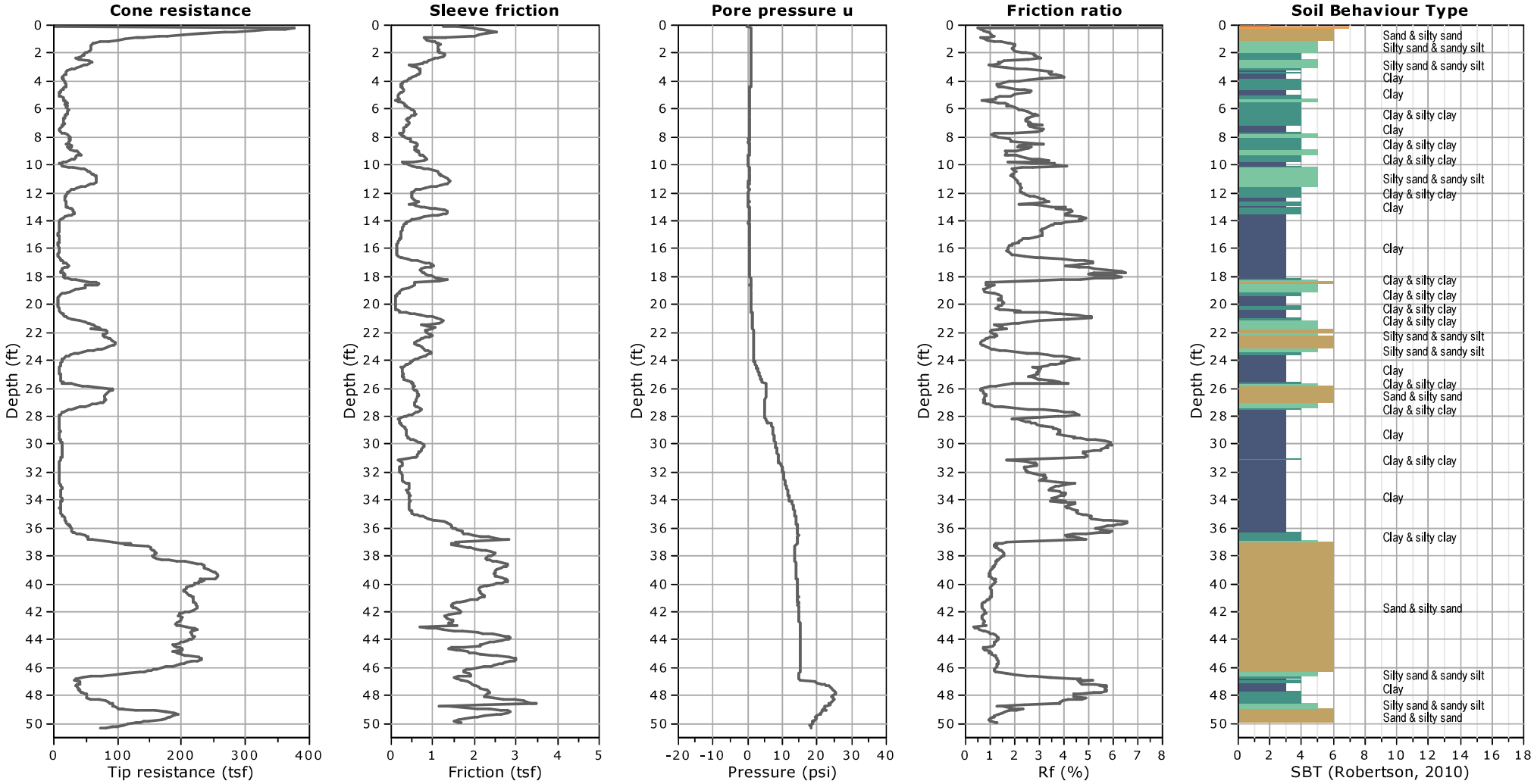
Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: **Southern California Geotechnical** **CPT-2**
Location: **5665 Plaza Dr, Cypress, CA** Total depth: 50.33 ft, Date: 4/2/2021



Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

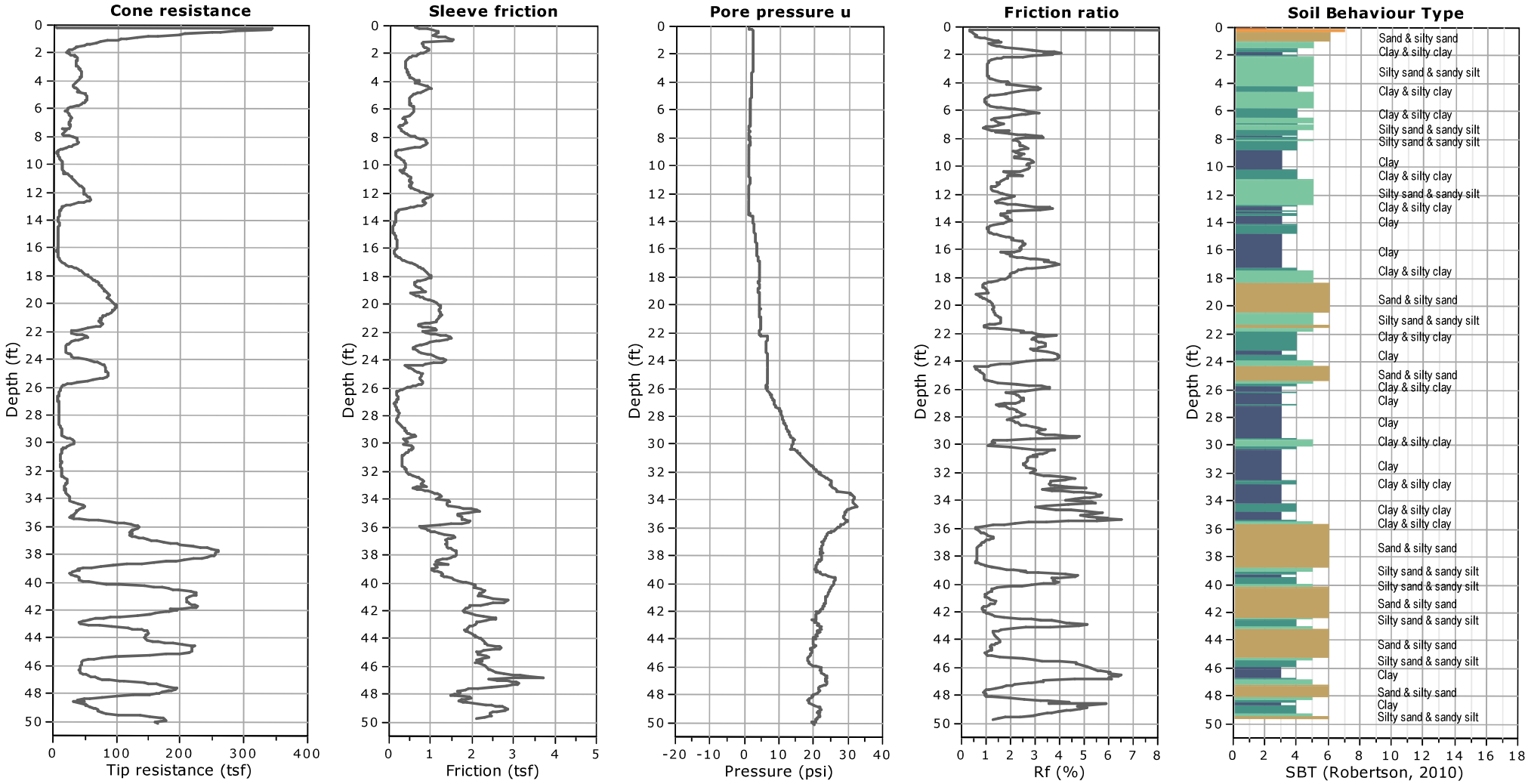
Project: **Southern California Geotechnical** **CPT-3**
Location: **5665 Plaza Dr, Cypress, CA** Total depth: 50.35 ft, Date: 4/2/2021



Kehoe Testing and Engineering
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

Project: Southern California Geotechnical
Location: 5665 Plaza Dr, Cypress, CA

CPT-4
Total depth: 50.10 ft, Date: 4/2/2021



:: Post-earthquake settlement due to soil liquefaction ::

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
5.08	14.32	2.00	0.00	1.00	0.00	5.13	18.64	2.00	0.00	1.00	0.00
5.21	78.23	2.00	0.00	1.00	0.00	5.26	79.99	2.00	0.00	1.00	0.00
5.34	77.33	2.00	0.00	1.00	0.00	5.39	78.83	0.29	4.07	1.00	0.02
5.47	82.91	0.30	3.87	1.00	0.04	5.52	86.73	0.30	3.71	1.00	0.02
5.60	90.42	0.31	3.56	1.00	0.03	5.63	86.99	0.30	3.70	1.00	0.01
5.66	86.26	0.30	3.73	1.00	0.02	5.74	89.96	0.31	3.57	1.00	0.03
5.78	89.37	0.30	3.60	1.00	0.02	5.85	90.24	0.31	3.56	1.00	0.03
5.94	92.72	0.31	3.47	1.00	0.04	6.00	94.94	0.32	3.39	1.00	0.02
6.06	96.33	0.32	3.34	1.00	0.02	6.10	96.73	2.00	0.00	1.00	0.00
6.20	95.72	2.00	0.00	1.00	0.00	6.26	94.21	2.00	0.00	1.00	0.00
6.32	93.48	2.00	0.00	1.00	0.00	6.37	92.62	2.00	0.00	1.00	0.00
6.46	30.03	2.00	0.00	1.00	0.00	6.51	28.92	2.00	0.00	1.00	0.00
6.63	27.10	2.00	0.00	1.00	0.00	6.69	25.03	2.00	0.00	1.00	0.00
6.76	25.03	2.00	0.00	1.00	0.00	6.81	25.03	2.00	0.00	1.00	0.00
6.86	25.02	2.00	0.00	1.00	0.00	6.94	25.12	2.00	0.00	1.00	0.00
7.00	25.65	2.00	0.00	1.00	0.00	7.08	25.53	2.00	0.00	1.00	0.00
7.11	20.81	2.00	0.00	1.00	0.00	7.18	22.94	2.00	0.00	1.00	0.00
7.22	21.07	2.00	0.00	1.00	0.00	7.34	16.86	2.00	0.00	1.00	0.00
7.40	14.70	2.00	0.00	1.00	0.00	7.46	14.24	2.00	0.00	1.00	0.00
7.52	14.44	2.00	0.00	1.00	0.00	7.58	14.26	2.00	0.00	1.00	0.00
7.65	16.27	2.00	0.00	1.00	0.00	7.71	20.70	2.00	0.00	1.00	0.00
7.78	82.19	2.00	0.00	1.00	0.00	7.82	85.67	2.00	0.00	1.00	0.00
7.90	87.69	0.26	3.67	1.00	0.03	7.96	89.17	0.26	3.61	1.00	0.03
8.02	90.93	0.27	3.54	1.00	0.03	8.10	90.57	0.27	3.55	1.00	0.03
8.16	93.38	0.27	3.44	1.00	0.02	8.24	93.09	0.27	3.45	1.00	0.04
8.30	92.01	0.27	3.50	1.00	0.03	8.38	91.63	0.26	3.51	1.00	0.03
8.42	93.07	0.27	3.46	1.00	0.02	8.49	28.41	2.00	0.00	1.00	0.00
8.55	92.70	0.27	3.47	1.00	0.02	8.61	97.42	0.28	3.30	1.00	0.02
8.68	95.52	0.27	3.37	1.00	0.03	8.73	89.95	2.00	0.00	1.00	0.00
8.81	90.81	2.00	0.00	1.00	0.00	8.86	92.94	2.00	0.00	1.00	0.00
8.99	101.32	2.00	0.00	1.00	0.00	9.04	104.31	2.00	0.00	1.00	0.00
9.12	107.93	0.31	2.97	1.00	0.03	9.26	110.49	2.00	0.00	1.00	0.00
9.30	110.83	2.00	0.00	1.00	0.00	9.34	106.11	2.00	0.00	1.00	0.00
9.39	105.16	2.00	0.00	1.00	0.00	9.48	103.56	2.00	0.00	1.00	0.00
9.55	102.12	2.00	0.00	1.00	0.00	9.60	98.25	2.00	0.00	1.00	0.00
9.68	91.59	2.00	0.00	1.00	0.00	9.74	25.76	2.00	0.00	1.00	0.00
9.79	77.04	0.22	4.16	1.00	0.03	9.87	16.20	2.00	0.00	1.00	0.00
9.92	13.25	2.00	0.00	1.00	0.00	10.00	16.48	2.00	0.00	1.00	0.00
10.06	16.79	2.00	0.00	1.00	0.00	10.14	89.39	2.00	0.00	1.00	0.00
10.18	97.85	2.00	0.00	1.00	0.00	10.26	111.15	2.00	0.00	1.00	0.00
10.31	117.03	2.00	0.00	1.00	0.00	10.37	122.45	2.00	0.00	1.00	0.00
10.47	125.88	0.38	2.52	1.00	0.03	10.51	127.16	0.38	2.49	1.00	0.01
10.62	129.94	0.40	2.44	1.00	0.03	10.67	132.38	0.42	2.39	1.00	0.01
10.75	134.57	0.44	2.34	1.00	0.02	10.80	135.98	0.45	2.32	1.00	0.01
10.87	137.42	0.46	2.29	1.00	0.02	10.93	138.30	0.47	2.27	1.00	0.02
11.02	138.91	0.47	2.26	1.00	0.02	11.07	139.13	0.47	2.26	1.00	0.01
11.14	139.18	0.47	2.26	1.00	0.02	11.20	139.11	0.47	2.26	1.00	0.02
11.25	137.96	0.46	2.28	1.00	0.01	11.32	135.28	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
11.38	131.13	2.00	0.00	1.00	0.00	11.45	125.66	2.00	0.00	1.00	0.00
11.51	119.90	2.00	0.00	1.00	0.00	11.57	112.76	2.00	0.00	1.00	0.00
11.64	104.75	2.00	0.00	1.00	0.00	11.71	97.93	2.00	0.00	1.00	0.00
11.77	92.80	2.00	0.00	1.00	0.00	11.90	87.07	2.00	0.00	1.00	0.00
11.95	86.15	2.00	0.00	1.00	0.00	12.03	85.71	0.22	3.75	1.00	0.03
12.09	85.07	0.22	3.78	1.00	0.03	12.16	83.90	0.21	3.83	1.00	0.03
12.21	24.43	2.00	0.00	1.00	0.00	12.28	23.21	2.00	0.00	1.00	0.00
12.34	22.10	2.00	0.00	1.00	0.00	12.42	21.74	2.00	0.00	1.00	0.00
12.47	21.71	2.00	0.00	1.00	0.00	12.54	22.53	2.00	0.00	1.00	0.00
12.60	23.45	2.00	0.00	1.00	0.00	12.67	24.37	2.00	0.00	1.00	0.00
12.74	25.09	2.00	0.00	1.00	0.00	12.80	82.25	0.21	3.90	1.00	0.03
12.87	24.18	2.00	0.00	1.00	0.00	12.92	24.24	2.00	0.00	1.00	0.00
12.99	26.20	2.00	0.00	1.00	0.00	13.02	24.48	2.00	0.00	1.00	0.00
13.09	30.99	2.00	0.00	1.00	0.00	13.13	95.94	0.24	3.35	1.00	0.02
13.23	36.90	2.00	0.00	1.00	0.00	13.26	36.87	2.00	0.00	1.00	0.00
13.36	37.89	2.00	0.00	1.00	0.00	13.40	100.99	0.25	3.18	1.00	0.02
13.49	100.85	0.25	3.19	1.00	0.03	13.54	98.88	0.24	3.25	1.00	0.02
13.60	34.10	2.00	0.00	1.00	0.00	13.65	29.88	2.00	0.00	1.00	0.00
13.75	21.25	2.00	0.00	1.00	0.00	13.79	18.00	2.00	0.00	1.00	0.00
13.89	14.07	2.00	0.00	1.00	0.00	13.93	13.32	2.00	0.00	1.00	0.00
13.98	11.93	2.00	0.00	1.00	0.00	14.11	11.38	2.00	0.00	1.00	0.00
14.15	11.15	2.00	0.00	1.00	0.00	14.20	11.04	2.00	0.00	1.00	0.00
14.27	10.48	2.00	0.00	1.00	0.00	14.33	10.47	2.00	0.00	1.00	0.00
14.38	10.46	2.00	0.00	1.00	0.00	14.46	10.40	2.00	0.00	1.00	0.00
14.54	10.33	2.00	0.00	1.00	0.00	14.59	10.21	2.00	0.00	1.00	0.00
14.66	10.09	2.00	0.00	1.00	0.00	14.78	9.34	2.00	0.00	1.00	0.00
14.85	9.22	2.00	0.00	1.00	0.00	14.91	9.11	2.00	0.00	1.00	0.00
14.99	9.10	2.00	0.00	1.00	0.00	15.04	9.09	2.00	0.00	1.00	0.00
15.12	9.39	2.00	0.00	1.00	0.00	15.17	9.90	2.00	0.00	1.00	0.00
15.23	10.52	2.00	0.00	1.00	0.00	15.30	10.92	2.00	0.00	1.00	0.00
15.34	10.91	2.00	0.00	1.00	0.00	15.48	10.06	2.00	0.00	1.00	0.00
15.54	9.53	2.00	0.00	1.00	0.00	15.61	9.09	2.00	0.00	1.00	0.00
15.66	8.77	2.00	0.00	1.00	0.00	15.73	8.67	2.00	0.00	1.00	0.00
15.78	8.97	2.00	0.00	1.00	0.00	15.97	10.09	2.00	0.00	1.00	0.00
16.02	10.08	2.00	0.00	1.00	0.00	16.03	10.08	2.00	0.00	1.00	0.00
16.11	10.07	2.00	0.00	1.00	0.00	16.14	10.26	2.00	0.00	1.00	0.00
16.29	9.10	2.00	0.00	1.00	0.00	16.33	8.79	2.00	0.00	1.00	0.00
16.45	8.77	2.00	0.00	1.00	0.00	16.49	8.76	2.00	0.00	1.00	0.00
16.56	8.75	2.00	0.00	1.00	0.00	16.63	9.36	2.00	0.00	1.00	0.00
16.67	10.37	2.00	0.00	1.00	0.00	16.75	11.58	2.00	0.00	1.00	0.00
16.80	13.19	2.00	0.00	1.00	0.00	16.87	14.97	2.00	0.00	1.00	0.00
16.93	16.56	2.00	0.00	1.00	0.00	16.99	18.44	2.00	0.00	1.00	0.00
17.06	21.39	2.00	0.00	1.00	0.00	17.11	24.82	2.00	0.00	1.00	0.00
17.18	27.81	2.00	0.00	1.00	0.00	17.24	27.68	2.00	0.00	1.00	0.00
17.30	23.65	2.00	0.00	1.00	0.00	17.37	19.09	2.00	0.00	1.00	0.00
17.43	16.20	2.00	0.00	1.00	0.00	17.51	14.19	2.00	0.00	1.00	0.00
17.64	13.35	2.00	0.00	1.00	0.00	17.68	13.34	2.00	0.00	1.00	0.00
17.75	17.48	2.00	0.00	1.00	0.00	17.82	19.22	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
17.88	19.10	2.00	0.00	1.00	0.00	17.94	18.48	2.00	0.00	1.00	0.00
17.99	18.46	2.00	0.00	1.00	0.00	18.08	20.57	2.00	0.00	1.00	0.00
18.12	24.62	2.00	0.00	1.00	0.00	18.21	31.00	2.00	0.00	1.00	0.00
18.26	101.50	2.00	0.00	1.00	0.00	18.32	111.11	2.00	0.00	1.00	0.00
18.39	109.37	2.00	0.00	1.00	0.00	18.44	107.67	2.00	0.00	1.00	0.00
18.52	106.43	2.00	0.00	1.00	0.00	18.57	107.18	0.24	2.99	1.00	0.02
18.62	108.53	0.25	2.95	1.00	0.02	18.64	105.72	0.24	3.03	1.00	0.01
18.74	103.46	0.23	3.10	1.00	0.04	18.78	99.55	2.00	0.00	1.00	0.00
18.88	91.80	2.00	0.00	1.00	0.00	18.92	87.95	2.00	0.00	1.00	0.00
19.05	81.45	2.00	0.00	1.00	0.00	19.15	74.45	2.00	0.00	1.00	0.00
19.22	15.21	2.00	0.00	1.00	0.00	19.27	12.38	2.00	0.00	1.00	0.00
19.34	10.42	2.00	0.00	1.00	0.00	19.40	8.95	2.00	0.00	1.00	0.00
19.46	8.07	2.00	0.00	1.00	0.00	19.53	7.19	2.00	0.00	1.00	0.00
19.59	7.56	2.00	0.00	1.00	0.00	19.66	7.66	2.00	0.00	1.00	0.00
19.71	7.07	2.00	0.00	1.00	0.00	19.79	6.87	2.00	0.00	1.00	0.00
19.84	6.87	2.00	0.00	1.00	0.00	19.91	6.66	2.00	0.00	1.00	0.00
19.98	7.23	2.00	0.00	1.00	0.00	20.03	7.62	2.00	0.00	1.00	0.00
20.11	8.00	2.00	0.00	1.00	0.00	20.21	8.28	2.00	0.00	1.00	0.00
20.28	8.66	2.00	0.00	1.00	0.00	20.34	9.04	2.00	0.00	1.00	0.00
20.40	9.51	2.00	0.00	1.00	0.00	20.46	10.07	2.00	0.00	1.00	0.00
20.52	11.03	2.00	0.00	1.00	0.00	20.58	11.96	2.00	0.00	1.00	0.00
20.64	13.66	2.00	0.00	1.00	0.00	20.69	15.73	2.00	0.00	1.00	0.00
20.76	17.59	2.00	0.00	1.00	0.00	20.81	19.26	2.00	0.00	1.00	0.00
20.88	21.01	2.00	0.00	1.00	0.00	20.94	23.05	2.00	0.00	1.00	0.00
21.05	31.05	2.00	0.00	1.00	0.00	21.17	105.87	2.00	0.00	1.00	0.00
21.23	112.53	2.00	0.00	1.00	0.00	21.30	116.08	2.00	0.00	1.00	0.00
21.35	119.20	2.00	0.00	1.00	0.00	21.43	117.81	2.00	0.00	1.00	0.00
21.48	115.02	2.00	0.00	1.00	0.00	21.53	119.31	0.28	2.67	1.00	0.02
21.61	125.14	0.30	2.54	1.00	0.02	21.65	127.16	0.31	2.49	1.00	0.01
21.71	126.14	0.31	2.52	1.00	0.02	21.72	118.46	0.27	2.69	1.00	0.00
21.83	121.10	0.28	2.63	1.00	0.04	21.91	120.01	0.28	2.65	1.00	0.02
21.96	120.83	0.28	2.64	1.00	0.02	22.01	122.26	0.29	2.60	1.00	0.02
22.09	124.79	0.30	2.55	1.00	0.02	22.14	126.09	0.31	2.52	1.00	0.01
22.21	127.24	0.31	2.49	1.00	0.02	22.27	125.56	0.30	2.53	1.00	0.02
22.34	120.55	0.28	2.64	1.00	0.02	22.40	115.34	0.26	2.77	1.00	0.02
22.46	110.97	0.25	2.88	1.00	0.02	22.53	106.26	0.23	3.02	1.00	0.02
22.58	101.24	0.22	3.17	1.00	0.02	22.71	100.35	0.22	3.20	1.00	0.05
22.76	101.55	0.22	3.16	1.00	0.02	22.89	100.77	2.00	0.00	1.00	0.00
22.95	103.87	2.00	0.00	1.00	0.00	23.02	111.65	2.00	0.00	1.00	0.00
23.07	115.93	2.00	0.00	1.00	0.00	23.16	118.24	2.00	0.00	1.00	0.00
23.21	117.89	2.00	0.00	1.00	0.00	23.28	116.28	2.00	0.00	1.00	0.00
23.34	112.76	2.00	0.00	1.00	0.00	23.42	106.74	2.00	0.00	1.00	0.00
23.46	99.49	2.00	0.00	1.00	0.00	23.53	92.59	2.00	0.00	1.00	0.00
23.59	27.15	2.00	0.00	1.00	0.00	23.68	23.91	2.00	0.00	1.00	0.00
23.73	20.76	2.00	0.00	1.00	0.00	23.79	17.36	2.00	0.00	1.00	0.00
23.86	14.74	2.00	0.00	1.00	0.00	23.91	13.47	2.00	0.00	1.00	0.00
23.99	13.37	2.00	0.00	1.00	0.00	24.05	12.99	2.00	0.00	1.00	0.00
24.10	12.54	2.00	0.00	1.00	0.00	24.17	11.54	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
24.24	10.99	2.00	0.00	1.00	0.00	24.30	10.53	2.00	0.00	1.00	0.00
24.36	10.26	2.00	0.00	1.00	0.00	24.44	9.89	2.00	0.00	1.00	0.00
24.51	9.34	2.00	0.00	1.00	0.00	24.56	8.97	2.00	0.00	1.00	0.00
24.62	8.79	2.00	0.00	1.00	0.00	24.69	8.88	2.00	0.00	1.00	0.00
24.74	9.05	2.00	0.00	1.00	0.00	24.82	9.48	2.00	0.00	1.00	0.00
24.87	9.74	2.00	0.00	1.00	0.00	24.95	9.91	2.00	0.00	1.00	0.00
25.01	9.99	2.00	0.00	1.00	0.00	25.08	10.24	2.00	0.00	1.00	0.00
25.14	10.76	2.00	0.00	1.00	0.00	25.20	10.85	2.00	0.00	1.00	0.00
25.27	10.48	2.00	0.00	1.00	0.00	25.32	10.03	2.00	0.00	1.00	0.00
25.40	10.29	2.00	0.00	1.00	0.00	25.45	10.98	2.00	0.00	1.00	0.00
25.53	12.82	2.00	0.00	1.00	0.00	25.58	14.91	2.00	0.00	1.00	0.00
25.60	12.28	2.00	0.00	1.00	0.00	25.67	85.24	2.00	0.00	1.00	0.00
25.74	90.68	2.00	0.00	1.00	0.00	25.82	99.34	2.00	0.00	1.00	0.00
25.87	104.02	2.00	0.00	1.00	0.00	25.94	104.57	2.00	0.00	1.00	0.00
26.01	94.24	2.00	0.00	1.00	0.00	26.05	94.80	2.00	0.00	1.00	0.00
26.12	96.32	0.20	3.34	1.00	0.03	26.18	97.95	0.21	3.28	1.00	0.02
26.28	103.31	0.22	3.11	1.00	0.03	26.31	105.45	0.22	3.04	1.00	0.01
26.40	109.29	0.23	2.93	1.00	0.03	26.48	109.74	0.24	2.92	1.00	0.03
26.53	108.64	0.23	2.95	1.00	0.02	26.59	107.68	0.23	2.98	1.00	0.02
26.66	106.63	0.23	3.01	1.00	0.03	26.78	104.54	0.22	3.07	1.00	0.04
26.83	105.30	0.22	3.05	1.00	0.02	26.90	106.02	0.23	3.03	1.00	0.03
26.98	104.20	2.00	0.00	1.00	0.00	27.03	105.63	2.00	0.00	1.00	0.00
27.10	106.68	2.00	0.00	1.00	0.00	27.15	106.19	2.00	0.00	1.00	0.00
27.22	104.47	2.00	0.00	1.00	0.00	27.28	102.22	2.00	0.00	1.00	0.00
27.33	97.79	2.00	0.00	1.00	0.00	27.42	92.98	2.00	0.00	1.00	0.00
27.46	27.82	2.00	0.00	1.00	0.00	27.55	22.19	2.00	0.00	1.00	0.00
27.60	18.27	2.00	0.00	1.00	0.00	27.67	15.36	2.00	0.00	1.00	0.00
27.73	13.05	2.00	0.00	1.00	0.00	27.85	10.22	2.00	0.00	1.00	0.00
27.91	9.37	2.00	0.00	1.00	0.00	27.99	8.94	2.00	0.00	1.00	0.00
28.04	8.75	2.00	0.00	1.00	0.00	28.10	8.75	2.00	0.00	1.00	0.00
28.17	8.58	2.00	0.00	1.00	0.00	28.24	8.06	2.00	0.00	1.00	0.00
28.30	7.80	2.00	0.00	1.00	0.00	28.37	7.63	2.00	0.00	1.00	0.00
28.43	7.62	2.00	0.00	1.00	0.00	28.45	7.66	2.00	0.00	1.00	0.00
28.50	7.69	2.00	0.00	1.00	0.00	28.55	7.94	2.00	0.00	1.00	0.00
28.63	8.02	2.00	0.00	1.00	0.00	28.68	8.27	2.00	0.00	1.00	0.00
28.78	8.76	2.00	0.00	1.00	0.00	28.84	8.84	2.00	0.00	1.00	0.00
28.89	9.00	2.00	0.00	1.00	0.00	28.94	9.25	2.00	0.00	1.00	0.00
29.03	9.49	2.00	0.00	1.00	0.00	29.10	9.39	2.00	0.00	1.00	0.00
29.14	9.31	2.00	0.00	1.00	0.00	29.20	9.13	2.00	0.00	1.00	0.00
29.30	8.95	2.00	0.00	1.00	0.00	29.40	8.69	2.00	0.00	1.00	0.00
29.46	8.52	2.00	0.00	1.00	0.00	29.52	8.76	2.00	0.00	1.00	0.00
29.56	8.76	2.00	0.00	1.00	0.00	29.61	8.92	2.00	0.00	1.00	0.00
29.67	9.32	2.00	0.00	1.00	0.00	29.73	9.98	2.00	0.00	1.00	0.00
29.83	10.80	2.00	0.00	1.00	0.00	29.88	11.54	2.00	0.00	1.00	0.00
30.01	12.51	2.00	0.00	1.00	0.00	30.05	12.75	2.00	0.00	1.00	0.00
30.09	12.99	2.00	0.00	1.00	0.00	30.14	13.06	2.00	0.00	1.00	0.00
30.21	12.64	2.00	0.00	1.00	0.00	30.27	12.62	2.00	0.00	1.00	0.00
30.36	12.61	2.00	0.00	1.00	0.00	30.42	12.60	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
30.47	12.83	2.00	0.00	1.00	0.00	30.53	13.16	2.00	0.00	1.00	0.00
30.58	13.15	2.00	0.00	1.00	0.00	30.67	12.64	2.00	0.00	1.00	0.00
30.74	12.13	2.00	0.00	1.00	0.00	30.79	11.95	2.00	0.00	1.00	0.00
30.85	11.70	2.00	0.00	1.00	0.00	30.91	11.28	2.00	0.00	1.00	0.00
30.98	10.62	2.00	0.00	1.00	0.00	31.10	9.71	2.00	0.00	1.00	0.00
31.23	8.96	2.00	0.00	1.00	0.00	31.28	8.63	2.00	0.00	1.00	0.00
31.34	8.38	2.00	0.00	1.00	0.00	31.37	8.37	2.00	0.00	1.00	0.00
31.37	8.37	2.00	0.00	1.00	0.00	31.46	8.36	2.00	0.00	1.00	0.00
31.51	8.12	2.00	0.00	1.00	0.00	31.60	7.86	2.00	0.00	1.00	0.00
31.65	8.03	2.00	0.00	1.00	0.00	31.74	8.02	2.00	0.00	1.00	0.00
31.82	8.01	2.00	0.00	1.00	0.00	31.86	8.01	2.00	0.00	1.00	0.00
31.91	7.84	2.00	0.00	1.00	0.00	31.99	7.83	2.00	0.00	1.00	0.00
32.04	8.07	2.00	0.00	1.00	0.00	32.16	7.81	2.00	0.00	1.00	0.00
32.18	7.57	2.00	0.00	1.00	0.00	32.23	7.81	2.00	0.00	1.00	0.00
32.31	7.80	2.00	0.00	1.00	0.00	32.35	7.72	2.00	0.00	1.00	0.00
32.44	7.55	2.00	0.00	1.00	0.00	32.53	7.54	2.00	0.00	1.00	0.00
32.57	7.62	2.00	0.00	1.00	0.00	32.62	7.46	2.00	0.00	1.00	0.00
32.69	7.69	2.00	0.00	1.00	0.00	32.75	8.00	2.00	0.00	1.00	0.00
32.83	8.71	2.00	0.00	1.00	0.00	32.92	9.82	2.00	0.00	1.00	0.00
32.97	10.29	2.00	0.00	1.00	0.00	33.01	10.53	2.00	0.00	1.00	0.00
33.10	10.84	2.00	0.00	1.00	0.00	33.14	11.07	2.00	0.00	1.00	0.00
33.23	10.26	2.00	0.00	1.00	0.00	33.28	9.78	2.00	0.00	1.00	0.00
33.34	9.29	2.00	0.00	1.00	0.00	33.43	9.21	2.00	0.00	1.00	0.00
33.50	9.20	2.00	0.00	1.00	0.00	33.54	9.51	2.00	0.00	1.00	0.00
33.64	10.29	2.00	0.00	1.00	0.00	33.70	10.28	2.00	0.00	1.00	0.00
33.76	10.43	2.00	0.00	1.00	0.00	33.80	10.59	2.00	0.00	1.00	0.00
33.86	10.90	2.00	0.00	1.00	0.00	33.98	10.88	2.00	0.00	1.00	0.00
34.04	9.85	2.00	0.00	1.00	0.00	34.08	11.66	2.00	0.00	1.00	0.00
34.17	10.14	2.00	0.00	1.00	0.00	34.21	8.88	2.00	0.00	1.00	0.00
34.26	8.88	2.00	0.00	1.00	0.00	34.39	8.86	2.00	0.00	1.00	0.00
34.43	8.86	2.00	0.00	1.00	0.00	34.48	9.01	2.00	0.00	1.00	0.00
34.53	8.85	2.00	0.00	1.00	0.00	34.58	8.69	2.00	0.00	1.00	0.00
34.65	8.83	2.00	0.00	1.00	0.00	34.74	9.13	2.00	0.00	1.00	0.00
34.78	9.36	2.00	0.00	1.00	0.00	34.87	9.90	2.00	0.00	1.00	0.00
34.92	9.90	2.00	0.00	1.00	0.00	35.00	10.59	2.00	0.00	1.00	0.00
35.05	11.13	2.00	0.00	1.00	0.00	35.12	12.14	2.00	0.00	1.00	0.00
35.18	12.98	2.00	0.00	1.00	0.00	35.27	14.61	2.00	0.00	1.00	0.00
35.31	15.46	2.00	0.00	1.00	0.00	35.40	15.99	2.00	0.00	1.00	0.00
35.44	16.05	2.00	0.00	1.00	0.00	35.58	17.19	2.00	0.00	1.00	0.00
35.62	18.04	2.00	0.00	1.00	0.00	35.72	19.73	2.00	0.00	1.00	0.00
35.76	20.58	2.00	0.00	1.00	0.00	35.81	21.27	2.00	0.00	1.00	0.00
35.84	22.34	2.00	0.00	1.00	0.00	35.90	23.26	2.00	0.00	1.00	0.00
35.98	24.95	2.00	0.00	1.00	0.00	36.04	25.39	2.00	0.00	1.00	0.00
36.09	25.61	2.00	0.00	1.00	0.00	36.24	25.64	2.00	0.00	1.00	0.00
36.28	26.01	2.00	0.00	1.00	0.00	36.33	27.78	2.00	0.00	1.00	0.00
36.39	31.41	2.00	0.00	1.00	0.00	36.46	37.05	2.00	0.00	1.00	0.00
36.51	43.11	2.00	0.00	1.00	0.00	36.57	46.36	2.00	0.00	1.00	0.00
36.64	47.34	2.00	0.00	1.00	0.00	36.68	47.31	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
36.76	48.29	2.00	0.00	1.00	0.00	36.81	52.80	2.00	0.00	1.00	0.00
36.99	138.91	2.00	0.00	1.00	0.00	37.07	148.14	2.00	0.00	1.00	0.00
37.13	145.32	2.00	0.00	1.00	0.00	37.18	144.61	2.00	0.00	1.00	0.00
37.21	144.50	0.42	2.16	1.00	0.01	37.32	151.33	0.50	2.05	1.00	0.03
37.39	157.60	0.59	1.87	1.00	0.02	37.44	161.86	0.68	1.62	1.00	0.01
37.48	165.79	0.77	1.31	1.00	0.01	37.57	172.11	0.96	0.83	1.00	0.01
37.61	175.56	1.10	0.62	1.00	0.00	37.67	179.85	1.32	0.39	1.00	0.00
37.75	182.99	1.52	0.24	1.00	0.00	37.81	183.31	1.54	0.23	1.00	0.00
37.88	182.57	1.49	0.26	1.00	0.00	37.94	180.48	1.36	0.36	1.00	0.00
38.02	178.11	1.23	0.48	1.00	0.00	38.07	176.50	1.15	0.57	1.00	0.00
38.14	175.30	1.09	0.63	1.00	0.01	38.23	175.29	1.09	0.64	1.00	0.01
38.28	175.90	1.12	0.60	1.00	0.00	38.34	178.49	1.25	0.46	1.00	0.00
38.39	185.18	1.68	0.15	1.00	0.00	38.45	193.16	2.00	0.00	1.00	0.00
38.52	200.34	2.00	0.00	1.00	0.00	38.59	206.16	2.00	0.00	1.00	0.00
38.67	209.39	2.00	0.00	1.00	0.00	38.72	209.46	2.00	0.00	1.00	0.00
38.81	210.19	2.00	0.00	1.00	0.00	38.85	210.59	2.00	0.00	1.00	0.00
38.97	215.89	2.00	0.00	1.00	0.00	39.03	219.04	2.00	0.00	1.00	0.00
39.11	222.46	2.00	0.00	1.00	0.00	39.16	224.84	2.00	0.00	1.00	0.00
39.23	226.74	2.00	0.00	1.00	0.00	39.29	227.94	2.00	0.00	1.00	0.00
39.36	228.87	2.00	0.00	1.00	0.00	39.42	229.16	2.00	0.00	1.00	0.00
39.47	228.82	2.00	0.00	1.00	0.00	39.55	226.80	2.00	0.00	1.00	0.00
39.60	223.70	2.00	0.00	1.00	0.00	39.64	202.56	2.00	0.00	1.00	0.00
39.71	207.78	2.00	0.00	1.00	0.00	39.81	203.83	2.00	0.00	1.00	0.00
39.86	200.69	2.00	0.00	1.00	0.00	39.90	199.22	2.00	0.00	1.00	0.00
39.99	193.97	2.00	0.00	1.00	0.00	40.03	192.65	2.00	0.00	1.00	0.00
40.12	189.03	2.00	0.00	1.00	0.00	40.16	186.93	1.83	0.07	1.00	0.00
40.25	182.20	1.47	0.28	1.00	0.00	40.29	180.93	1.39	0.34	1.00	0.00
40.39	177.01	1.17	0.53	1.00	0.01	40.45	176.99	1.17	0.54	1.00	0.00
40.52	177.36	1.19	0.52	1.00	0.00	40.56	178.24	1.24	0.47	1.00	0.00
40.66	180.94	1.39	0.34	1.00	0.00	40.70	182.00	1.46	0.29	1.00	0.00
40.78	184.50	1.63	0.17	1.00	0.00	40.83	186.26	1.77	0.10	1.00	0.00
40.89	188.16	1.93	0.03	1.00	0.00	40.96	189.17	2.00	0.00	1.00	0.00
41.05	189.02	2.00	0.00	1.00	0.00	41.09	189.02	2.00	0.00	1.00	0.00
41.16	189.38	2.00	0.00	1.00	0.00	41.22	189.28	2.00	0.00	1.00	0.00
41.29	190.28	2.00	0.00	1.00	0.00	41.34	191.49	2.00	0.00	1.00	0.00
41.44	193.26	2.00	0.00	1.00	0.00	41.49	193.82	2.00	0.00	1.00	0.00
41.58	193.94	2.00	0.00	1.00	0.00	41.63	194.02	2.00	0.00	1.00	0.00
41.69	193.84	2.00	0.00	1.00	0.00	41.74	193.91	2.00	0.00	1.00	0.00
41.91	187.75	1.90	0.04	1.00	0.00	41.96	183.09	1.53	0.23	1.00	0.00
42.02	177.26	1.19	0.52	1.00	0.00	42.07	172.86	1.00	0.77	1.00	0.01
42.13	169.20	0.87	1.02	1.00	0.01	42.19	167.28	0.82	1.17	1.00	0.01
42.25	166.95	0.81	1.19	1.00	0.01	42.33	167.78	0.83	1.13	1.00	0.01
42.43	171.52	0.95	0.86	1.00	0.01	42.47	170.62	0.92	0.92	1.00	0.00
42.56	169.79	0.89	0.97	1.00	0.01	42.60	169.58	0.89	0.99	1.00	0.00
42.66	167.75	0.83	1.13	1.00	0.01	42.73	164.39	0.74	1.42	1.00	0.01
42.81	162.85	0.71	1.57	1.00	0.01	42.86	161.50	0.68	1.64	1.00	0.01
42.95	162.47	0.70	1.59	1.00	0.02	42.99	166.20	0.79	1.25	1.00	0.01
43.08	176.38	1.15	0.56	1.00	0.01	43.17	185.31	1.70	0.14	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
43.22	188.75	1.99	0.00	1.00	0.00	43.26	191.41	2.00	0.00	1.00	0.00
43.34	183.52	1.56	0.21	1.00	0.00	43.39	183.72	1.58	0.20	1.00	0.00
43.48	182.59	1.50	0.26	1.00	0.00	43.51	183.80	1.58	0.20	1.00	0.00
43.59	184.53	1.64	0.17	1.00	0.00	43.65	186.58	1.80	0.08	1.00	0.00
43.72	190.64	2.00	0.00	1.00	0.00	43.79	192.86	2.00	0.00	1.00	0.00
43.88	193.56	2.00	0.00	1.00	0.00	43.91	192.64	2.00	0.00	1.00	0.00
44.00	189.42	2.00	0.00	1.00	0.00	44.04	186.30	1.78	0.09	1.00	0.00
44.14	178.42	1.25	0.45	1.00	0.01	44.18	174.96	1.09	0.64	1.00	0.00
44.23	171.17	0.94	0.87	1.00	0.01	44.32	167.06	0.81	1.17	1.00	0.01
44.36	165.94	0.78	1.27	1.00	0.01	44.45	165.80	0.78	1.28	1.00	0.01
44.52	161.61	0.68	1.63	1.00	0.01	44.58	165.46	0.77	1.31	1.00	0.01
44.63	167.51	0.83	1.14	1.00	0.01	44.70	167.40	0.82	1.15	1.00	0.01
44.76	166.84	0.81	1.19	1.00	0.01	44.85	155.75	0.57	1.99	1.00	0.02
44.89	165.88	0.78	1.27	1.00	0.00	44.98	161.82	0.69	1.62	1.00	0.02
45.03	167.44	0.83	1.14	1.00	0.01	45.11	177.73	1.22	0.49	1.00	0.00
45.15	181.93	1.46	0.28	1.00	0.00	45.26	194.65	2.00	0.00	1.00	0.00
45.31	198.06	2.00	0.00	1.00	0.00	45.35	199.75	2.00	0.00	1.00	0.00
45.41	199.81	2.00	0.00	1.00	0.00	45.47	197.14	2.00	0.00	1.00	0.00
45.55	193.21	2.00	0.00	1.00	0.00	45.64	188.68	1.99	0.00	1.00	0.00
45.68	187.02	1.85	0.06	1.00	0.00	45.74	184.25	1.62	0.18	1.00	0.00
45.83	180.04	1.35	0.37	1.00	0.00	45.87	177.14	1.19	0.52	1.00	0.00
45.95	172.31	0.99	0.79	1.00	0.01	46.08	158.96	0.63	1.79	1.00	0.03
46.13	156.38	0.59	1.95	1.00	0.01	46.18	153.87	2.00	0.00	1.00	0.00
46.22	154.76	2.00	0.00	1.00	0.00	46.27	155.23	2.00	0.00	1.00	0.00
46.34	154.98	2.00	0.00	1.00	0.00	46.43	150.76	2.00	0.00	1.00	0.00
46.52	140.05	2.00	0.00	1.00	0.00	46.57	124.94	2.00	0.00	1.00	0.00
46.64	108.85	2.00	0.00	1.00	0.00	46.70	34.41	2.00	0.00	1.00	0.00
46.77	27.98	2.00	0.00	1.00	0.00	46.83	26.86	2.00	0.00	1.00	0.00
46.90	28.09	2.00	0.00	1.00	0.00	46.94	25.66	2.00	0.00	1.00	0.00
47.01	30.90	2.00	0.00	1.00	0.00	47.05	31.66	2.00	0.00	1.00	0.00
47.14	31.70	2.00	0.00	1.00	0.00	47.19	28.91	2.00	0.00	1.00	0.00
47.27	26.81	2.00	0.00	1.00	0.00	47.33	28.97	2.00	0.00	1.00	0.00
47.41	28.29	2.00	0.00	1.00	0.00	47.44	29.04	2.00	0.00	1.00	0.00
47.54	30.53	2.00	0.00	1.00	0.00	47.58	30.80	2.00	0.00	1.00	0.00
47.68	31.61	2.00	0.00	1.00	0.00	47.74	33.18	2.00	0.00	1.00	0.00
47.77	34.84	2.00	0.00	1.00	0.00	47.84	38.23	2.00	0.00	1.00	0.00
47.91	40.66	2.00	0.00	1.00	0.00	47.98	39.63	2.00	0.00	1.00	0.00
48.05	39.43	2.00	0.00	1.00	0.00	48.11	39.41	2.00	0.00	1.00	0.00
48.19	39.21	2.00	0.00	1.00	0.00	48.24	44.41	2.00	0.00	1.00	0.00
48.30	55.76	2.00	0.00	1.00	0.00	48.38	132.59	0.34	2.38	1.00	0.02
48.46	136.00	0.37	2.32	1.00	0.02	48.52	139.45	0.39	2.25	1.00	0.02
48.60	142.96	0.42	2.19	1.00	0.02	48.64	139.33	0.39	2.26	1.00	0.01
48.71	126.44	0.31	2.51	1.00	0.02	48.77	132.19	0.34	2.39	1.00	0.02
48.90	145.04	0.44	2.16	1.00	0.03	48.95	151.22	0.52	2.06	1.00	0.01
48.96	146.02	0.45	2.14	1.00	0.00	49.02	168.60	0.87	1.03	1.00	0.01
49.08	186.58	1.82	0.08	1.00	0.00	49.16	193.66	2.00	0.00	1.00	0.00
49.22	193.20	2.00	0.00	1.00	0.00	49.33	187.00	1.86	0.06	1.00	0.00
49.36	182.82	1.53	0.23	1.00	0.00	49.46	170.44	0.93	0.90	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
49.51	164.49	0.76	1.36	1.00	0.01	49.55	160.49	0.67	1.70	1.00	0.01
49.62	149.94	0.50	2.08	1.00	0.02	49.69	143.36	0.43	2.18	1.00	0.02
49.81	143.82	0.43	2.18	1.00	0.03	49.86	146.27	0.46	2.14	1.00	0.01
49.90	149.89	0.50	2.08	1.00	0.01	49.94	151.07	0.52	2.06	1.00	0.01
50.01	93.37	2.00	0.00	1.00	0.00	50.08	87.77	2.00	0.00	1.00	0.00
50.17	78.12	2.00	0.00	1.00	0.00	50.21	72.28	2.00	0.00	1.00	0.00
50.30	63.35	2.00	0.00	1.00	0.00	50.35	56.57	2.00	0.00	1.00	0.00

Total estimated settlement: 2.80

Abbreviations

$Q_{tn,cs}$:	Equivalent dean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

:: Post-earthquake settlement due to soil liquefaction ::

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
5.07	117.97	0.45	2.70	1.00	0.03	5.15	115.74	0.44	2.76	1.00	0.02
5.18	114.95	0.43	2.78	1.00	0.01	5.29	114.43	0.42	2.79	1.00	0.04
5.34	114.80	0.42	2.78	1.00	0.02	5.42	116.08	0.43	2.75	1.00	0.03
5.46	116.83	0.43	2.73	1.00	0.01	5.54	117.51	0.43	2.72	1.00	0.03
5.58	116.89	2.00	0.00	1.00	0.00	5.66	116.39	2.00	0.00	1.00	0.00
5.73	115.80	2.00	0.00	1.00	0.00	5.78	113.79	2.00	0.00	1.00	0.00
5.87	104.57	2.00	0.00	1.00	0.00	5.91	100.24	2.00	0.00	1.00	0.00
6.00	95.30	2.00	0.00	1.00	0.00	6.04	92.83	2.00	0.00	1.00	0.00
6.13	28.92	2.00	0.00	1.00	0.00	6.21	30.86	2.00	0.00	1.00	0.00
6.28	93.56	2.00	0.00	1.00	0.00	6.31	94.61	2.00	0.00	1.00	0.00
6.39	96.75	2.00	0.00	1.00	0.00	6.44	97.74	2.00	0.00	1.00	0.00
6.57	97.94	2.00	0.00	1.00	0.00	6.62	97.43	2.00	0.00	1.00	0.00
6.65	97.99	0.31	3.28	1.00	0.01	6.70	98.25	0.31	3.27	1.00	0.02
6.79	96.98	0.31	3.31	1.00	0.04	6.83	96.55	0.30	3.33	1.00	0.01
6.92	95.24	0.30	3.38	1.00	0.04	6.96	94.65	0.29	3.40	1.00	0.02
7.05	94.78	0.29	3.39	1.00	0.04	7.12	94.40	0.29	3.41	1.00	0.03
7.19	92.57	0.28	3.47	1.00	0.03	7.29	90.56	2.00	0.00	1.00	0.00
7.41	91.53	2.00	0.00	1.00	0.00	7.47	89.63	2.00	0.00	1.00	0.00
7.49	21.96	2.00	0.00	1.00	0.00	7.58	87.20	2.00	0.00	1.00	0.00
7.66	84.89	2.00	0.00	1.00	0.00	7.71	25.45	2.00	0.00	1.00	0.00
7.75	23.91	2.00	0.00	1.00	0.00	7.83	22.11	2.00	0.00	1.00	0.00
7.88	23.49	2.00	0.00	1.00	0.00	7.97	95.70	2.00	0.00	1.00	0.00
8.02	103.58	2.00	0.00	1.00	0.00	8.11	112.15	2.00	0.00	1.00	0.00
8.16	114.44	0.35	2.79	1.00	0.02	8.26	115.26	0.35	2.77	1.00	0.03
8.30	115.25	0.35	2.77	1.00	0.01	8.36	115.44	0.35	2.77	1.00	0.02
8.41	115.76	0.35	2.76	1.00	0.02	8.50	114.79	2.00	0.00	1.00	0.00
8.55	113.18	2.00	0.00	1.00	0.00	8.65	106.02	2.00	0.00	1.00	0.00
8.69	100.80	2.00	0.00	1.00	0.00	8.75	94.04	2.00	0.00	1.00	0.00
8.81	87.73	2.00	0.00	1.00	0.00	8.90	19.49	2.00	0.00	1.00	0.00
8.94	16.07	2.00	0.00	1.00	0.00	9.03	10.28	2.00	0.00	1.00	0.00
9.09	8.48	2.00	0.00	1.00	0.00	9.15	9.05	2.00	0.00	1.00	0.00
9.19	8.48	2.00	0.00	1.00	0.00	9.25	8.90	2.00	0.00	1.00	0.00
9.34	9.96	2.00	0.00	1.00	0.00	9.41	11.41	2.00	0.00	1.00	0.00
9.51	12.56	2.00	0.00	1.00	0.00	9.57	14.11	2.00	0.00	1.00	0.00
9.70	17.17	2.00	0.00	1.00	0.00	9.74	18.80	2.00	0.00	1.00	0.00
9.81	19.78	2.00	0.00	1.00	0.00	9.87	20.26	2.00	0.00	1.00	0.00
9.93	20.22	2.00	0.00	1.00	0.00	9.99	20.19	2.00	0.00	1.00	0.00
10.05	20.16	2.00	0.00	1.00	0.00	10.13	20.11	2.00	0.00	1.00	0.00
10.18	20.09	2.00	0.00	1.00	0.00	10.31	20.27	2.00	0.00	1.00	0.00
10.36	20.38	2.00	0.00	1.00	0.00	10.42	77.28	0.21	4.14	1.00	0.03
10.49	21.09	2.00	0.00	1.00	0.00	10.55	22.27	2.00	0.00	1.00	0.00
10.62	82.04	0.22	3.91	1.00	0.03	10.69	23.39	2.00	0.00	1.00	0.00
10.70	88.44	2.00	0.00	1.00	0.00	10.76	91.99	2.00	0.00	1.00	0.00
10.86	95.20	2.00	0.00	1.00	0.00	10.91	96.31	2.00	0.00	1.00	0.00
10.96	97.25	2.00	0.00	1.00	0.00	11.03	98.01	2.00	0.00	1.00	0.00
11.12	99.98	2.00	0.00	1.00	0.00	11.17	100.08	2.00	0.00	1.00	0.00
11.25	101.48	0.26	3.17	1.00	0.03	11.30	102.88	0.27	3.12	1.00	0.02
11.42	104.71	0.27	3.06	1.00	0.05	11.47	104.27	0.27	3.08	1.00	0.02

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
11.53	104.92	0.27	3.06	1.00	0.02	11.58	106.48	0.28	3.01	1.00	0.02
11.64	107.43	0.28	2.98	1.00	0.02	11.69	109.32	0.29	2.93	1.00	0.02
11.75	111.25	0.29	2.88	1.00	0.02	11.86	114.97	0.31	2.78	1.00	0.04
11.91	116.46	0.31	2.74	1.00	0.02	11.95	117.72	0.32	2.71	1.00	0.01
12.01	119.40	0.33	2.67	1.00	0.02	12.13	121.46	0.33	2.62	1.00	0.04
12.17	122.54	0.34	2.60	1.00	0.01	12.24	123.31	0.34	2.58	1.00	0.02
12.30	123.89	0.35	2.57	1.00	0.02	12.35	123.95	0.35	2.56	1.00	0.02
12.50	122.58	0.34	2.59	1.00	0.05	12.57	122.45	2.00	0.00	1.00	0.00
12.61	121.70	2.00	0.00	1.00	0.00	12.66	120.23	2.00	0.00	1.00	0.00
12.70	117.27	2.00	0.00	1.00	0.00	12.76	111.01	2.00	0.00	1.00	0.00
12.81	103.19	2.00	0.00	1.00	0.00	12.88	95.46	2.00	0.00	1.00	0.00
12.97	25.33	2.00	0.00	1.00	0.00	13.03	21.86	2.00	0.00	1.00	0.00
13.07	18.95	2.00	0.00	1.00	0.00	13.14	17.31	2.00	0.00	1.00	0.00
13.23	15.55	2.00	0.00	1.00	0.00	13.29	13.99	2.00	0.00	1.00	0.00
13.34	12.80	2.00	0.00	1.00	0.00	13.41	12.66	2.00	0.00	1.00	0.00
13.46	12.65	2.00	0.00	1.00	0.00	13.52	12.40	2.00	0.00	1.00	0.00
13.59	10.60	2.00	0.00	1.00	0.00	13.65	11.30	2.00	0.00	1.00	0.00
13.73	10.92	2.00	0.00	1.00	0.00	13.81	10.42	2.00	0.00	1.00	0.00
13.88	9.94	2.00	0.00	1.00	0.00	13.92	9.81	2.00	0.00	1.00	0.00
14.00	9.80	2.00	0.00	1.00	0.00	14.08	9.78	2.00	0.00	1.00	0.00
14.12	9.78	2.00	0.00	1.00	0.00	14.21	10.71	2.00	0.00	1.00	0.00
14.26	11.06	2.00	0.00	1.00	0.00	14.35	10.92	2.00	0.00	1.00	0.00
14.39	10.69	2.00	0.00	1.00	0.00	14.47	9.85	2.00	0.00	1.00	0.00
14.52	9.24	2.00	0.00	1.00	0.00	14.61	9.23	2.00	0.00	1.00	0.00
14.66	9.22	2.00	0.00	1.00	0.00	14.74	9.21	2.00	0.00	1.00	0.00
14.79	9.20	2.00	0.00	1.00	0.00	14.87	8.72	2.00	0.00	1.00	0.00
14.91	8.71	2.00	0.00	1.00	0.00	14.97	9.05	2.00	0.00	1.00	0.00
15.06	8.91	2.00	0.00	1.00	0.00	15.10	8.78	2.00	0.00	1.00	0.00
15.20	8.76	2.00	0.00	1.00	0.00	15.23	9.11	2.00	0.00	1.00	0.00
15.32	8.74	2.00	0.00	1.00	0.00	15.41	8.73	2.00	0.00	1.00	0.00
15.46	8.67	2.00	0.00	1.00	0.00	15.54	8.60	2.00	0.00	1.00	0.00
15.58	8.59	2.00	0.00	1.00	0.00	15.64	8.58	2.00	0.00	1.00	0.00
15.70	8.68	2.00	0.00	1.00	0.00	15.75	8.67	2.00	0.00	1.00	0.00
15.84	8.65	2.00	0.00	1.00	0.00	15.90	8.54	2.00	0.00	1.00	0.00
15.96	8.53	2.00	0.00	1.00	0.00	16.06	8.05	2.00	0.00	1.00	0.00
16.11	7.13	2.00	0.00	1.00	0.00	16.15	7.81	2.00	0.00	1.00	0.00
16.22	7.12	2.00	0.00	1.00	0.00	16.27	7.85	2.00	0.00	1.00	0.00
16.37	7.44	2.00	0.00	1.00	0.00	16.42	7.88	2.00	0.00	1.00	0.00
16.50	8.21	2.00	0.00	1.00	0.00	16.54	8.54	2.00	0.00	1.00	0.00
16.62	9.21	2.00	0.00	1.00	0.00	16.68	9.65	2.00	0.00	1.00	0.00
16.77	10.19	2.00	0.00	1.00	0.00	16.83	11.97	2.00	0.00	1.00	0.00
16.87	12.51	2.00	0.00	1.00	0.00	16.95	14.04	2.00	0.00	1.00	0.00
17.03	16.31	2.00	0.00	1.00	0.00	17.07	17.38	2.00	0.00	1.00	0.00
17.16	21.25	2.00	0.00	1.00	0.00	17.21	24.13	2.00	0.00	1.00	0.00
17.30	89.60	2.00	0.00	1.00	0.00	17.33	92.80	2.00	0.00	1.00	0.00
17.43	98.61	2.00	0.00	1.00	0.00	17.47	100.96	2.00	0.00	1.00	0.00
17.55	105.65	2.00	0.00	1.00	0.00	17.62	108.97	2.00	0.00	1.00	0.00
17.66	110.22	2.00	0.00	1.00	0.00	17.75	112.86	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
17.79	114.76	2.00	0.00	1.00	0.00	17.87	116.96	0.28	2.73	1.00	0.03
17.95	120.28	0.29	2.65	1.00	0.03	18.00	121.31	0.30	2.62	1.00	0.01
18.09	123.15	0.30	2.58	1.00	0.03	18.13	122.96	0.30	2.59	1.00	0.01
18.18	122.35	0.30	2.60	1.00	0.01	18.26	118.42	0.28	2.69	1.00	0.03
18.31	115.62	0.27	2.76	1.00	0.02	18.40	111.76	0.26	2.86	1.00	0.03
18.44	109.52	0.25	2.92	1.00	0.01	18.53	108.31	0.24	2.96	1.00	0.03
18.57	108.34	0.24	2.96	1.00	0.02	18.66	109.16	0.25	2.93	1.00	0.03
18.70	110.33	0.25	2.90	1.00	0.02	18.80	114.38	0.26	2.79	1.00	0.03
18.84	116.48	0.27	2.74	1.00	0.01	18.90	117.79	0.28	2.71	1.00	0.02
19.01	119.93	0.29	2.66	1.00	0.04	19.06	121.17	0.29	2.63	1.00	0.01
19.11	123.30	0.30	2.58	1.00	0.01	19.20	100.05	0.22	3.21	1.00	0.04
19.31	103.23	0.23	3.11	1.00	0.04	19.37	105.62	0.23	3.04	1.00	0.02
19.41	108.06	0.24	2.97	1.00	0.02	19.46	112.06	0.25	2.86	1.00	0.02
19.51	115.41	0.27	2.77	1.00	0.01	19.55	119.76	0.28	2.66	1.00	0.01
19.65	125.23	0.31	2.54	1.00	0.03	19.69	127.49	0.32	2.49	1.00	0.01
19.78	132.21	0.35	2.39	1.00	0.03	19.82	133.27	0.36	2.37	1.00	0.01
19.91	135.61	0.37	2.32	1.00	0.03	19.96	137.04	0.38	2.30	1.00	0.01
20.04	139.24	0.40	2.26	1.00	0.02	20.09	140.35	0.41	2.24	1.00	0.01
20.17	140.26	0.41	2.24	1.00	0.02	20.22	139.93	0.41	2.24	1.00	0.01
20.30	138.98	0.40	2.26	1.00	0.02	20.37	139.06	0.40	2.26	1.00	0.02
20.44	139.37	0.40	2.25	1.00	0.02	20.49	139.26	0.40	2.26	1.00	0.01
20.57	140.15	0.41	2.24	1.00	0.02	20.61	140.43	0.41	2.24	1.00	0.01
20.70	140.51	0.41	2.23	1.00	0.02	20.74	139.96	0.41	2.24	1.00	0.01
20.83	138.04	0.39	2.28	1.00	0.02	20.90	136.39	0.38	2.31	1.00	0.02
20.95	135.46	0.37	2.33	1.00	0.02	21.03	133.77	0.36	2.36	1.00	0.02
21.08	133.13	0.35	2.37	1.00	0.01	21.16	133.24	0.35	2.37	1.00	0.02
21.20	131.39	0.34	2.41	1.00	0.01	21.29	127.97	0.32	2.48	1.00	0.03
21.35	123.11	0.29	2.58	1.00	0.02	21.40	114.01	0.26	2.80	1.00	0.02
21.49	112.57	2.00	0.00	1.00	0.00	21.54	116.08	2.00	0.00	1.00	0.00
21.59	120.87	2.00	0.00	1.00	0.00	21.66	124.12	2.00	0.00	1.00	0.00
21.76	118.32	2.00	0.00	1.00	0.00	21.82	111.35	2.00	0.00	1.00	0.00
21.89	100.63	2.00	0.00	1.00	0.00	21.95	92.11	2.00	0.00	1.00	0.00
22.03	92.41	0.20	3.48	1.00	0.03	22.08	32.42	2.00	0.00	1.00	0.00
22.15	32.41	2.00	0.00	1.00	0.00	22.20	102.64	2.00	0.00	1.00	0.00
22.26	111.63	2.00	0.00	1.00	0.00	22.32	118.46	2.00	0.00	1.00	0.00
22.39	120.61	2.00	0.00	1.00	0.00	22.45	116.22	2.00	0.00	1.00	0.00
22.52	112.52	2.00	0.00	1.00	0.00	22.61	103.45	2.00	0.00	1.00	0.00
22.65	99.33	2.00	0.00	1.00	0.00	22.74	31.49	2.00	0.00	1.00	0.00
22.79	28.82	2.00	0.00	1.00	0.00	22.88	25.37	2.00	0.00	1.00	0.00
22.92	24.11	2.00	0.00	1.00	0.00	23.02	21.98	2.00	0.00	1.00	0.00
23.08	20.92	2.00	0.00	1.00	0.00	23.13	21.94	2.00	0.00	1.00	0.00
23.19	21.54	2.00	0.00	1.00	0.00	23.24	21.90	2.00	0.00	1.00	0.00
23.31	21.30	2.00	0.00	1.00	0.00	23.36	20.80	2.00	0.00	1.00	0.00
23.46	21.52	2.00	0.00	1.00	0.00	23.58	25.42	2.00	0.00	1.00	0.00
23.63	27.83	2.00	0.00	1.00	0.00	23.71	29.47	2.00	0.00	1.00	0.00
23.77	31.47	2.00	0.00	1.00	0.00	23.85	35.51	2.00	0.00	1.00	0.00
23.90	103.74	2.00	0.00	1.00	0.00	24.02	117.38	2.00	0.00	1.00	0.00
24.10	123.32	2.00	0.00	1.00	0.00	24.15	126.86	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
24.21	126.93	2.00	0.00	1.00	0.00	24.28	121.95	2.00	0.00	1.00	0.00
24.35	120.10	2.00	0.00	1.00	0.00	24.42	86.36	2.00	0.00	1.00	0.00
24.54	90.36	0.19	3.56	1.00	0.05	24.59	93.44	0.20	3.44	1.00	0.02
24.66	98.14	0.21	3.28	1.00	0.03	24.70	100.48	0.21	3.20	1.00	0.01
24.75	103.69	0.22	3.10	1.00	0.02	24.84	109.54	0.24	2.92	1.00	0.03
24.88	111.19	0.24	2.88	1.00	0.01	24.97	114.55	0.25	2.79	1.00	0.03
25.01	116.30	0.26	2.75	1.00	0.01	25.10	115.54	0.26	2.76	1.00	0.03
25.15	115.21	0.26	2.77	1.00	0.02	25.21	114.31	0.25	2.80	1.00	0.02
25.27	113.43	2.00	0.00	1.00	0.00	25.36	115.23	2.00	0.00	1.00	0.00
25.40	115.86	2.00	0.00	1.00	0.00	25.49	115.48	2.00	0.00	1.00	0.00
25.54	111.65	2.00	0.00	1.00	0.00	25.64	96.66	2.00	0.00	1.00	0.00
25.70	29.29	2.00	0.00	1.00	0.00	25.76	23.17	2.00	0.00	1.00	0.00
25.81	19.14	2.00	0.00	1.00	0.00	25.87	16.39	2.00	0.00	1.00	0.00
25.94	14.72	2.00	0.00	1.00	0.00	25.99	13.88	2.00	0.00	1.00	0.00
26.11	11.66	2.00	0.00	1.00	0.00	26.14	11.02	2.00	0.00	1.00	0.00
26.21	10.91	2.00	0.00	1.00	0.00	26.26	10.35	2.00	0.00	1.00	0.00
26.37	8.50	2.00	0.00	1.00	0.00	26.42	8.22	2.00	0.00	1.00	0.00
26.47	8.22	2.00	0.00	1.00	0.00	26.55	8.21	2.00	0.00	1.00	0.00
26.60	8.02	2.00	0.00	1.00	0.00	26.67	7.92	2.00	0.00	1.00	0.00
26.73	7.91	2.00	0.00	1.00	0.00	26.80	7.63	2.00	0.00	1.00	0.00
26.86	7.72	2.00	0.00	1.00	0.00	26.91	7.81	2.00	0.00	1.00	0.00
26.99	7.80	2.00	0.00	1.00	0.00	27.04	8.15	2.00	0.00	1.00	0.00
27.12	8.24	2.00	0.00	1.00	0.00	27.17	8.23	2.00	0.00	1.00	0.00
27.25	8.23	2.00	0.00	1.00	0.00	27.30	8.22	2.00	0.00	1.00	0.00
27.36	8.17	2.00	0.00	1.00	0.00	27.44	8.21	2.00	0.00	1.00	0.00
27.55	8.19	2.00	0.00	1.00	0.00	27.58	8.27	2.00	0.00	1.00	0.00
27.64	8.27	2.00	0.00	1.00	0.00	27.73	8.80	2.00	0.00	1.00	0.00
27.78	9.16	2.00	0.00	1.00	0.00	27.82	9.25	2.00	0.00	1.00	0.00
27.97	9.67	2.00	0.00	1.00	0.00	28.01	9.67	2.00	0.00	1.00	0.00
28.06	9.49	2.00	0.00	1.00	0.00	28.15	8.94	2.00	0.00	1.00	0.00
28.20	8.47	2.00	0.00	1.00	0.00	28.29	8.02	2.00	0.00	1.00	0.00
28.35	8.01	2.00	0.00	1.00	0.00	28.41	8.01	2.00	0.00	1.00	0.00
28.45	8.18	2.00	0.00	1.00	0.00	28.50	8.53	2.00	0.00	1.00	0.00
28.59	9.42	2.00	0.00	1.00	0.00	28.63	9.32	2.00	0.00	1.00	0.00
28.72	9.85	2.00	0.00	1.00	0.00	28.77	10.01	2.00	0.00	1.00	0.00
28.83	10.36	2.00	0.00	1.00	0.00	28.89	10.80	2.00	0.00	1.00	0.00
29.00	12.11	2.00	0.00	1.00	0.00	29.06	12.63	2.00	0.00	1.00	0.00
29.11	12.79	2.00	0.00	1.00	0.00	29.16	12.87	2.00	0.00	1.00	0.00
29.24	12.86	2.00	0.00	1.00	0.00	29.29	12.68	2.00	0.00	1.00	0.00
29.34	12.40	2.00	0.00	1.00	0.00	29.40	12.74	2.00	0.00	1.00	0.00
29.47	13.25	2.00	0.00	1.00	0.00	29.59	17.52	2.00	0.00	1.00	0.00
29.64	22.14	2.00	0.00	1.00	0.00	29.70	83.00	2.00	0.00	1.00	0.00
29.74	85.77	2.00	0.00	1.00	0.00	29.82	87.67	0.18	3.67	1.00	0.04
29.87	88.65	0.19	3.63	1.00	0.02	29.95	88.14	0.18	3.65	1.00	0.03
30.05	86.44	2.00	0.00	1.00	0.00	30.18	84.50	2.00	0.00	1.00	0.00
30.26	22.46	2.00	0.00	1.00	0.00	30.30	18.37	2.00	0.00	1.00	0.00
30.32	14.29	2.00	0.00	1.00	0.00	30.34	14.42	2.00	0.00	1.00	0.00
30.40	14.54	2.00	0.00	1.00	0.00	30.47	13.57	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
30.52	13.21	2.00	0.00	1.00	0.00	30.60	12.60	2.00	0.00	1.00	0.00
30.66	12.07	2.00	0.00	1.00	0.00	30.73	11.97	2.00	0.00	1.00	0.00
30.82	11.17	2.00	0.00	1.00	0.00	30.87	11.00	2.00	0.00	1.00	0.00
30.92	11.08	2.00	0.00	1.00	0.00	31.04	11.06	2.00	0.00	1.00	0.00
31.09	11.31	2.00	0.00	1.00	0.00	31.17	11.47	2.00	0.00	1.00	0.00
31.22	11.46	2.00	0.00	1.00	0.00	31.29	11.62	2.00	0.00	1.00	0.00
31.35	11.79	2.00	0.00	1.00	0.00	31.40	11.86	2.00	0.00	1.00	0.00
31.48	11.59	2.00	0.00	1.00	0.00	31.53	11.58	2.00	0.00	1.00	0.00
31.58	11.57	2.00	0.00	1.00	0.00	31.74	11.55	2.00	0.00	1.00	0.00
31.80	12.14	2.00	0.00	1.00	0.00	31.86	12.64	2.00	0.00	1.00	0.00
31.92	13.05	2.00	0.00	1.00	0.00	31.98	13.30	2.00	0.00	1.00	0.00
32.04	13.20	2.00	0.00	1.00	0.00	32.10	13.36	2.00	0.00	1.00	0.00
32.16	13.10	2.00	0.00	1.00	0.00	32.23	13.34	2.00	0.00	1.00	0.00
32.29	12.64	2.00	0.00	1.00	0.00	32.36	13.31	2.00	0.00	1.00	0.00
32.42	14.74	2.00	0.00	1.00	0.00	32.49	16.41	2.00	0.00	1.00	0.00
32.62	20.83	2.00	0.00	1.00	0.00	32.68	21.74	2.00	0.00	1.00	0.00
32.74	21.47	2.00	0.00	1.00	0.00	32.81	20.94	2.00	0.00	1.00	0.00
32.87	20.17	2.00	0.00	1.00	0.00	32.93	19.23	2.00	0.00	1.00	0.00
32.98	18.12	2.00	0.00	1.00	0.00	33.05	16.94	2.00	0.00	1.00	0.00
33.12	16.33	2.00	0.00	1.00	0.00	33.19	16.65	2.00	0.00	1.00	0.00
33.25	17.23	2.00	0.00	1.00	0.00	33.30	17.72	2.00	0.00	1.00	0.00
33.38	17.52	2.00	0.00	1.00	0.00	33.43	17.64	2.00	0.00	1.00	0.00
33.50	17.58	2.00	0.00	1.00	0.00	33.55	18.56	2.00	0.00	1.00	0.00
33.61	19.37	2.00	0.00	1.00	0.00	33.68	20.43	2.00	0.00	1.00	0.00
33.75	22.07	2.00	0.00	1.00	0.00	33.81	23.37	2.00	0.00	1.00	0.00
33.89	24.17	2.00	0.00	1.00	0.00	33.94	24.81	2.00	0.00	1.00	0.00
34.07	25.26	2.00	0.00	1.00	0.00	34.12	24.83	2.00	0.00	1.00	0.00
34.18	24.81	2.00	0.00	1.00	0.00	34.29	30.35	2.00	0.00	1.00	0.00
34.38	37.54	2.00	0.00	1.00	0.00	34.43	106.29	0.22	3.02	1.00	0.02
34.55	109.03	0.23	2.94	1.00	0.04	34.61	107.30	0.23	2.99	1.00	0.02
34.69	41.54	2.00	0.00	1.00	0.00	34.75	38.64	2.00	0.00	1.00	0.00
34.82	35.99	2.00	0.00	1.00	0.00	34.88	34.50	2.00	0.00	1.00	0.00
34.95	33.56	2.00	0.00	1.00	0.00	35.07	31.63	2.00	0.00	1.00	0.00
35.14	29.65	2.00	0.00	1.00	0.00	35.20	27.02	2.00	0.00	1.00	0.00
35.26	29.67	2.00	0.00	1.00	0.00	35.33	24.94	2.00	0.00	1.00	0.00
35.39	29.70	2.00	0.00	1.00	0.00	35.46	38.83	2.00	0.00	1.00	0.00
35.53	115.38	2.00	0.00	1.00	0.00	35.57	130.09	2.00	0.00	1.00	0.00
35.64	143.73	2.00	0.00	1.00	0.00	35.70	150.06	2.00	0.00	1.00	0.00
35.77	146.33	2.00	0.00	1.00	0.00	35.83	133.11	2.00	0.00	1.00	0.00
35.89	119.21	2.00	0.00	1.00	0.00	35.97	123.01	0.28	2.59	1.00	0.02
36.01	124.40	0.29	2.55	1.00	0.01	36.14	123.48	0.28	2.57	1.00	0.04
36.19	117.24	0.26	2.72	1.00	0.01	36.23	116.87	0.26	2.73	1.00	0.01
36.30	118.25	0.26	2.70	1.00	0.02	36.36	122.44	0.28	2.60	1.00	0.02
36.45	131.08	0.32	2.41	1.00	0.03	36.50	136.91	0.36	2.30	1.00	0.01
36.62	148.93	0.47	2.09	1.00	0.03	36.67	150.54	0.49	2.07	1.00	0.01
36.72	149.70	0.48	2.08	1.00	0.01	36.80	144.07	0.42	2.17	1.00	0.02
36.84	139.00	0.37	2.26	1.00	0.01	36.91	136.99	0.36	2.30	1.00	0.02
36.97	142.24	0.40	2.20	1.00	0.02	37.02	150.55	0.49	2.07	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
37.10	160.47	0.65	1.70	1.00	0.02	37.15	168.81	0.86	1.06	1.00	0.01
37.24	178.62	1.26	0.45	1.00	0.00	37.29	184.15	1.60	0.19	1.00	0.00
37.39	202.26	2.00	0.00	1.00	0.00	37.46	212.81	2.00	0.00	1.00	0.00
37.51	222.51	2.00	0.00	1.00	0.00	37.55	229.28	2.00	0.00	1.00	0.00
37.65	236.44	2.00	0.00	1.00	0.00	37.68	238.10	2.00	0.00	1.00	0.00
37.76	238.02	2.00	0.00	1.00	0.00	37.81	237.35	2.00	0.00	1.00	0.00
37.90	234.32	2.00	0.00	1.00	0.00	37.95	233.57	2.00	0.00	1.00	0.00
38.03	232.68	2.00	0.00	1.00	0.00	38.10	228.95	2.00	0.00	1.00	0.00
38.17	221.56	2.00	0.00	1.00	0.00	38.24	212.80	2.00	0.00	1.00	0.00
38.30	201.12	2.00	0.00	1.00	0.00	38.38	187.98	1.92	0.03	1.00	0.00
38.43	174.61	1.07	0.67	1.00	0.00	38.52	161.38	0.67	1.65	1.00	0.02
38.57	143.90	2.00	0.00	1.00	0.00	38.66	138.90	2.00	0.00	1.00	0.00
38.71	126.90	2.00	0.00	1.00	0.00	38.78	131.58	2.00	0.00	1.00	0.00
38.85	124.28	2.00	0.00	1.00	0.00	38.92	113.02	2.00	0.00	1.00	0.00
39.01	103.07	2.00	0.00	1.00	0.00	39.02	94.68	2.00	0.00	1.00	0.00
39.04	97.34	0.20	3.30	1.00	0.01	39.13	96.19	0.20	3.34	1.00	0.03
39.18	32.78	2.00	0.00	1.00	0.00	39.28	26.18	2.00	0.00	1.00	0.00
39.34	24.22	2.00	0.00	1.00	0.00	39.39	23.44	2.00	0.00	1.00	0.00
39.45	23.89	2.00	0.00	1.00	0.00	39.54	29.71	2.00	0.00	1.00	0.00
39.59	33.01	2.00	0.00	1.00	0.00	39.66	35.30	2.00	0.00	1.00	0.00
39.71	36.83	2.00	0.00	1.00	0.00	39.81	36.55	2.00	0.00	1.00	0.00
39.92	40.98	2.00	0.00	1.00	0.00	39.97	112.72	2.00	0.00	1.00	0.00
40.02	125.63	2.00	0.00	1.00	0.00	40.10	139.00	2.00	0.00	1.00	0.00
40.15	153.03	2.00	0.00	1.00	0.00	40.25	168.17	2.00	0.00	1.00	0.00
40.32	166.43	2.00	0.00	1.00	0.00	40.37	165.38	2.00	0.00	1.00	0.00
40.44	169.31	0.87	1.02	1.00	0.01	40.50	172.68	0.99	0.79	1.00	0.01
40.54	176.90	1.17	0.54	1.00	0.00	40.67	192.64	2.00	0.00	1.00	0.00
40.72	198.52	2.00	0.00	1.00	0.00	40.77	201.44	2.00	0.00	1.00	0.00
40.90	200.14	2.00	0.00	1.00	0.00	40.94	197.71	2.00	0.00	1.00	0.00
41.01	191.68	2.00	0.00	1.00	0.00	41.07	186.68	1.81	0.08	1.00	0.00
41.25	194.05	2.00	0.00	1.00	0.00	41.38	191.20	2.00	0.00	1.00	0.00
41.45	188.28	1.95	0.02	1.00	0.00	41.52	190.59	2.00	0.00	1.00	0.00
41.57	193.96	2.00	0.00	1.00	0.00	41.64	197.54	2.00	0.00	1.00	0.00
41.70	200.59	2.00	0.00	1.00	0.00	41.77	198.44	2.00	0.00	1.00	0.00
41.83	193.18	2.00	0.00	1.00	0.00	41.88	177.71	1.21	0.49	1.00	0.00
41.89	162.37	0.69	1.59	1.00	0.00	41.95	171.75	0.96	0.84	1.00	0.01
42.00	167.73	2.00	0.00	1.00	0.00	42.09	159.71	2.00	0.00	1.00	0.00
42.13	156.95	2.00	0.00	1.00	0.00	42.21	162.32	2.00	0.00	1.00	0.00
42.26	167.92	2.00	0.00	1.00	0.00	42.35	170.24	2.00	0.00	1.00	0.00
42.46	157.10	2.00	0.00	1.00	0.00	42.52	145.19	2.00	0.00	1.00	0.00
42.57	134.73	2.00	0.00	1.00	0.00	42.61	123.16	2.00	0.00	1.00	0.00
42.66	114.72	2.00	0.00	1.00	0.00	42.75	42.68	2.00	0.00	1.00	0.00
42.80	40.92	2.00	0.00	1.00	0.00	42.90	34.36	2.00	0.00	1.00	0.00
43.01	36.62	2.00	0.00	1.00	0.00	43.06	111.19	2.00	0.00	1.00	0.00
43.10	126.95	2.00	0.00	1.00	0.00	43.15	141.13	2.00	0.00	1.00	0.00
43.25	156.07	2.00	0.00	1.00	0.00	43.32	158.21	2.00	0.00	1.00	0.00
43.36	158.77	2.00	0.00	1.00	0.00	43.41	158.55	2.00	0.00	1.00	0.00
43.47	159.84	2.00	0.00	1.00	0.00	43.51	160.68	0.66	1.69	1.00	0.01

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
43.68	165.85	0.78	1.28	1.00	0.03	43.72	166.89	0.81	1.19	1.00	0.01
43.78	167.75	0.83	1.12	1.00	0.01	43.81	167.95	0.84	1.10	1.00	0.00
43.89	169.28	0.88	1.00	1.00	0.01	43.94	170.60	0.92	0.91	1.00	0.01
43.98	171.46	0.95	0.85	1.00	0.00	44.04	172.78	1.00	0.77	1.00	0.01
44.11	174.15	1.06	0.69	1.00	0.01	44.20	176.41	1.15	0.56	1.00	0.01
44.25	176.71	1.17	0.54	1.00	0.00	44.31	175.68	1.12	0.60	1.00	0.00
44.38	173.80	1.04	0.71	1.00	0.01	44.43	178.04	1.24	0.47	1.00	0.00
44.51	187.89	1.92	0.03	1.00	0.00	44.56	192.71	2.00	0.00	1.00	0.00
44.64	190.47	2.00	0.00	1.00	0.00	44.69	190.40	2.00	0.00	1.00	0.00
44.77	188.76	2.00	0.00	1.00	0.00	44.86	188.59	1.98	0.01	1.00	0.00
44.90	188.12	1.94	0.02	1.00	0.00	44.95	188.04	1.93	0.03	1.00	0.00
45.03	182.90	2.00	0.00	1.00	0.00	45.12	170.03	2.00	0.00	1.00	0.00
45.17	168.20	2.00	0.00	1.00	0.00	45.23	176.70	2.00	0.00	1.00	0.00
45.35	148.00	2.00	0.00	1.00	0.00	45.43	129.48	2.00	0.00	1.00	0.00
45.49	117.34	2.00	0.00	1.00	0.00	45.56	45.90	2.00	0.00	1.00	0.00
45.61	39.12	2.00	0.00	1.00	0.00	45.69	36.60	2.00	0.00	1.00	0.00
45.74	36.80	2.00	0.00	1.00	0.00	45.87	36.75	2.00	0.00	1.00	0.00
45.93	36.80	2.00	0.00	1.00	0.00	46.05	35.60	2.00	0.00	1.00	0.00
46.18	35.11	2.00	0.00	1.00	0.00	46.23	34.44	2.00	0.00	1.00	0.00
46.31	33.32	2.00	0.00	1.00	0.00	46.37	34.28	2.00	0.00	1.00	0.00
46.49	34.13	2.00	0.00	1.00	0.00	46.58	38.14	2.00	0.00	1.00	0.00
46.62	41.98	2.00	0.00	1.00	0.00	46.68	45.53	2.00	0.00	1.00	0.00
46.76	49.60	2.00	0.00	1.00	0.00	46.81	53.66	2.00	0.00	1.00	0.00
46.89	124.26	2.00	0.00	1.00	0.00	46.94	130.50	2.00	0.00	1.00	0.00
47.02	140.59	2.00	0.00	1.00	0.00	47.08	155.27	2.00	0.00	1.00	0.00
47.12	161.46	2.00	0.00	1.00	0.00	47.21	185.55	2.00	0.00	1.00	0.00
47.25	189.78	2.00	0.00	1.00	0.00	47.32	193.70	2.00	0.00	1.00	0.00
47.39	192.23	2.00	0.00	1.00	0.00	47.46	181.57	2.00	0.00	1.00	0.00
47.53	165.19	2.00	0.00	1.00	0.00	47.61	162.05	2.00	0.00	1.00	0.00
47.66	161.05	0.68	1.67	1.00	0.01	47.75	154.36	0.56	2.01	1.00	0.02
47.78	150.19	0.50	2.07	1.00	0.01	47.88	148.30	0.48	2.10	1.00	0.02
47.92	146.29	0.46	2.14	1.00	0.01	47.97	142.40	2.00	0.00	1.00	0.00
48.05	141.06	2.00	0.00	1.00	0.00	48.11	149.00	2.00	0.00	1.00	0.00
48.19	144.40	2.00	0.00	1.00	0.00	48.24	126.33	2.00	0.00	1.00	0.00
48.32	109.23	2.00	0.00	1.00	0.00	48.36	39.38	2.00	0.00	1.00	0.00
48.45	30.30	2.00	0.00	1.00	0.00	48.53	39.18	2.00	0.00	1.00	0.00
48.58	25.01	2.00	0.00	1.00	0.00	48.71	38.99	2.00	0.00	1.00	0.00
48.76	40.90	2.00	0.00	1.00	0.00	48.80	41.74	2.00	0.00	1.00	0.00
48.85	41.66	2.00	0.00	1.00	0.00	48.89	42.36	2.00	0.00	1.00	0.00
48.96	45.83	2.00	0.00	1.00	0.00	49.05	51.04	2.00	0.00	1.00	0.00
49.08	53.48	2.00	0.00	1.00	0.00	49.16	123.80	0.30	2.57	1.00	0.02
49.24	123.20	2.00	0.00	1.00	0.00	49.28	123.09	2.00	0.00	1.00	0.00
49.38	127.94	2.00	0.00	1.00	0.00	49.42	133.48	2.00	0.00	1.00	0.00
49.49	150.02	2.00	0.00	1.00	0.00	49.57	170.91	2.00	0.00	1.00	0.00
49.62	174.02	2.00	0.00	1.00	0.00	49.69	168.75	2.00	0.00	1.00	0.00
49.77	148.66	2.00	0.00	1.00	0.00	49.82	149.62	2.00	0.00	1.00	0.00
49.90	151.03	2.00	0.00	1.00	0.00	49.95	150.53	2.00	0.00	1.00	0.00
50.00	135.68	2.00	0.00	1.00	0.00	50.10	139.63	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)

Total estimated settlement: 3.29

Abbreviations

$Q_{tn,cs}$:	Equivalent clean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

:: Post-earthquake settlement due to soil liquefaction ::

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
5.05	166.78	1.39	0.35	1.00	0.00	5.11	167.53	1.42	0.33	1.00	0.00
5.18	168.23	1.44	0.31	1.00	0.00	5.24	168.43	1.45	0.30	1.00	0.00
5.32	167.57	1.39	0.35	1.00	0.00	5.46	166.26	1.31	0.42	1.00	0.01
5.52	167.06	1.34	0.39	1.00	0.00	5.59	168.15	1.39	0.35	1.00	0.00
5.65	168.91	1.42	0.33	1.00	0.00	5.73	168.89	1.41	0.33	1.00	0.00
5.79	166.00	1.27	0.47	1.00	0.00	5.86	164.57	1.20	0.54	1.00	0.00
5.93	164.88	1.21	0.53	1.00	0.00	6.00	163.98	1.16	0.58	1.00	0.00
6.13	161.48	1.06	0.73	1.00	0.01	6.21	159.75	1.00	0.84	1.00	0.01
6.26	157.76	0.94	0.98	1.00	0.01	6.35	156.18	0.89	1.10	1.00	0.01
6.40	154.70	0.85	1.23	1.00	0.01	6.54	148.25	0.71	1.95	1.00	0.03
6.62	143.35	0.63	2.18	1.00	0.02	6.68	138.91	0.57	2.26	1.00	0.02
6.75	134.17	0.52	2.35	1.00	0.02	6.79	129.70	0.48	2.44	1.00	0.01
6.88	123.09	0.42	2.58	1.00	0.03	6.99	107.78	0.34	2.97	1.00	0.04
7.11	90.84	0.28	3.54	1.00	0.05	7.14	95.03	0.29	3.38	1.00	0.01
7.17	99.71	0.31	3.22	1.00	0.01	7.24	100.53	0.31	3.20	1.00	0.03
7.29	102.18	0.31	3.14	1.00	0.02	7.37	104.11	0.32	3.08	1.00	0.03
7.44	105.03	0.32	3.05	1.00	0.03	7.51	105.64	0.32	3.04	1.00	0.02
7.55	106.03	0.32	3.03	1.00	0.02	7.64	107.96	0.33	2.97	1.00	0.03
7.68	108.47	0.33	2.95	1.00	0.01	7.92	109.94	0.33	2.91	1.00	0.08
7.99	111.40	0.34	2.87	1.00	0.02	8.05	112.48	0.34	2.84	1.00	0.02
8.19	116.23	0.36	2.75	1.00	0.05	8.25	117.23	0.36	2.72	1.00	0.02
8.32	117.99	0.36	2.70	1.00	0.02	8.52	113.84	0.34	2.81	1.00	0.07
8.66	109.33	0.32	2.93	1.00	0.05	8.72	107.16	0.31	2.99	1.00	0.02
8.79	105.37	0.30	3.04	1.00	0.02	8.92	105.32	0.30	3.05	1.00	0.05
8.98	106.56	0.30	3.01	1.00	0.02	9.05	107.71	0.31	2.98	1.00	0.02
9.14	109.27	0.31	2.93	1.00	0.03	9.19	109.79	0.31	2.92	1.00	0.02
9.27	109.53	0.31	2.92	1.00	0.03	9.34	108.83	0.31	2.94	1.00	0.02
9.41	106.92	0.30	3.00	1.00	0.03	9.46	104.04	0.29	3.09	1.00	0.02
9.54	102.85	0.29	3.12	1.00	0.03	9.60	104.48	0.29	3.07	1.00	0.02
9.67	91.59	0.25	3.51	1.00	0.03	9.76	93.00	0.25	3.46	1.00	0.04
9.81	93.70	0.26	3.43	1.00	0.02	9.89	94.09	0.26	3.42	1.00	0.03
9.95	89.99	0.24	3.57	1.00	0.02	9.96	90.24	0.25	3.56	1.00	0.01
9.99	90.13	0.24	3.57	1.00	0.01	10.08	90.22	0.24	3.56	1.00	0.04
10.14	88.74	2.00	0.00	1.00	0.00	10.18	88.81	2.00	0.00	1.00	0.00
10.27	101.45	2.00	0.00	1.00	0.00	10.33	105.74	2.00	0.00	1.00	0.00
10.38	107.43	2.00	0.00	1.00	0.00	10.47	102.26	2.00	0.00	1.00	0.00
10.55	96.24	2.00	0.00	1.00	0.00	10.61	90.10	2.00	0.00	1.00	0.00
10.69	25.80	2.00	0.00	1.00	0.00	10.75	21.21	2.00	0.00	1.00	0.00
10.82	18.12	2.00	0.00	1.00	0.00	10.87	15.00	2.00	0.00	1.00	0.00
10.96	12.76	2.00	0.00	1.00	0.00	11.09	11.81	2.00	0.00	1.00	0.00
11.16	11.28	2.00	0.00	1.00	0.00	11.23	11.00	2.00	0.00	1.00	0.00
11.29	10.59	2.00	0.00	1.00	0.00	11.36	10.32	2.00	0.00	1.00	0.00
11.44	9.77	2.00	0.00	1.00	0.00	11.57	9.09	2.00	0.00	1.00	0.00
11.64	9.08	2.00	0.00	1.00	0.00	11.71	8.80	2.00	0.00	1.00	0.00
11.78	9.31	2.00	0.00	1.00	0.00	11.84	11.23	2.00	0.00	1.00	0.00
11.91	13.91	2.00	0.00	1.00	0.00	11.98	15.68	2.00	0.00	1.00	0.00
12.06	15.77	2.00	0.00	1.00	0.00	12.12	14.85	2.00	0.00	1.00	0.00
12.20	14.70	2.00	0.00	1.00	0.00	12.33	14.66	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
12.39	14.51	2.00	0.00	1.00	0.00	12.46	17.13	2.00	0.00	1.00	0.00
12.55	19.43	2.00	0.00	1.00	0.00	12.57	17.56	2.00	0.00	1.00	0.00
12.60	17.54	2.00	0.00	1.00	0.00	12.72	26.23	2.00	0.00	1.00	0.00
12.77	29.55	2.00	0.00	1.00	0.00	12.85	90.10	0.22	3.57	1.00	0.03
12.91	29.34	2.00	0.00	1.00	0.00	12.99	27.85	2.00	0.00	1.00	0.00
13.04	27.82	2.00	0.00	1.00	0.00	13.12	27.78	2.00	0.00	1.00	0.00
13.19	27.75	2.00	0.00	1.00	0.00	13.25	90.92	2.00	0.00	1.00	0.00
13.30	96.07	2.00	0.00	1.00	0.00	13.39	101.32	2.00	0.00	1.00	0.00
13.45	101.41	2.00	0.00	1.00	0.00	13.52	101.55	2.00	0.00	1.00	0.00
13.58	96.67	2.00	0.00	1.00	0.00	13.65	89.92	2.00	0.00	1.00	0.00
13.74	25.29	2.00	0.00	1.00	0.00	13.79	21.83	2.00	0.00	1.00	0.00
13.87	19.17	2.00	0.00	1.00	0.00	13.92	16.86	2.00	0.00	1.00	0.00
14.01	16.00	2.00	0.00	1.00	0.00	14.05	15.74	2.00	0.00	1.00	0.00
14.14	15.62	2.00	0.00	1.00	0.00	14.22	15.11	2.00	0.00	1.00	0.00
14.28	14.26	2.00	0.00	1.00	0.00	14.40	13.25	2.00	0.00	1.00	0.00
14.49	13.23	2.00	0.00	1.00	0.00	14.55	13.22	2.00	0.00	1.00	0.00
14.63	13.44	2.00	0.00	1.00	0.00	14.69	13.67	2.00	0.00	1.00	0.00
14.82	13.88	2.00	0.00	1.00	0.00	14.89	14.09	2.00	0.00	1.00	0.00
14.95	14.67	2.00	0.00	1.00	0.00	15.03	16.18	2.00	0.00	1.00	0.00
15.12	17.46	2.00	0.00	1.00	0.00	15.19	18.01	2.00	0.00	1.00	0.00
15.25	17.99	2.00	0.00	1.00	0.00	15.33	17.72	2.00	0.00	1.00	0.00
15.38	17.35	2.00	0.00	1.00	0.00	15.47	17.22	2.00	0.00	1.00	0.00
15.52	17.43	2.00	0.00	1.00	0.00	15.60	16.81	2.00	0.00	1.00	0.00
15.67	16.08	2.00	0.00	1.00	0.00	15.73	15.47	2.00	0.00	1.00	0.00
15.75	15.18	2.00	0.00	1.00	0.00	15.76	13.46	2.00	0.00	1.00	0.00
15.85	14.84	2.00	0.00	1.00	0.00	15.89	14.83	2.00	0.00	1.00	0.00
15.98	14.22	2.00	0.00	1.00	0.00	16.08	14.08	2.00	0.00	1.00	0.00
16.14	14.06	2.00	0.00	1.00	0.00	16.20	14.05	2.00	0.00	1.00	0.00
16.26	13.56	2.00	0.00	1.00	0.00	16.34	13.66	2.00	0.00	1.00	0.00
16.39	13.52	2.00	0.00	1.00	0.00	16.47	12.68	2.00	0.00	1.00	0.00
16.54	11.97	2.00	0.00	1.00	0.00	16.60	11.96	2.00	0.00	1.00	0.00
16.67	11.59	2.00	0.00	1.00	0.00	16.74	11.35	2.00	0.00	1.00	0.00
16.82	11.33	2.00	0.00	1.00	0.00	16.87	11.32	2.00	0.00	1.00	0.00
16.95	11.30	2.00	0.00	1.00	0.00	17.01	11.63	2.00	0.00	1.00	0.00
17.08	11.96	2.00	0.00	1.00	0.00	17.22	12.73	2.00	0.00	1.00	0.00
17.27	13.05	2.00	0.00	1.00	0.00	17.36	13.72	2.00	0.00	1.00	0.00
17.49	15.04	2.00	0.00	1.00	0.00	17.56	15.58	2.00	0.00	1.00	0.00
17.62	16.58	2.00	0.00	1.00	0.00	17.68	17.45	2.00	0.00	1.00	0.00
17.75	18.43	2.00	0.00	1.00	0.00	17.80	19.62	2.00	0.00	1.00	0.00
17.88	21.80	2.00	0.00	1.00	0.00	17.96	24.51	2.00	0.00	1.00	0.00
18.02	26.45	2.00	0.00	1.00	0.00	18.10	27.71	2.00	0.00	1.00	0.00
18.24	31.10	2.00	0.00	1.00	0.00	18.30	92.59	2.00	0.00	1.00	0.00
18.37	93.50	2.00	0.00	1.00	0.00	18.43	91.77	2.00	0.00	1.00	0.00
18.58	95.09	2.00	0.00	1.00	0.00	18.64	98.77	0.22	3.25	1.00	0.02
18.66	96.52	0.21	3.33	1.00	0.01	18.72	101.96	0.23	3.15	1.00	0.02
18.80	101.91	0.23	3.15	1.00	0.03	18.85	101.87	0.23	3.15	1.00	0.02
18.94	102.38	0.23	3.14	1.00	0.03	18.98	102.55	0.23	3.13	1.00	0.02
19.07	101.78	0.23	3.16	1.00	0.03	19.14	101.65	0.23	3.16	1.00	0.02

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
19.20	101.86	0.23	3.15	1.00	0.02	19.25	102.09	0.23	3.15	1.00	0.02
19.30	103.38	0.23	3.11	1.00	0.02	19.38	106.19	0.24	3.02	1.00	0.03
19.46	107.24	0.24	2.99	1.00	0.03	19.52	106.86	0.24	3.00	1.00	0.02
19.60	108.32	0.24	2.96	1.00	0.03	19.73	111.12	0.25	2.88	1.00	0.04
19.79	111.55	0.25	2.87	1.00	0.02	19.87	113.13	0.26	2.83	1.00	0.03
20.00	117.41	0.27	2.72	1.00	0.04	20.05	119.86	0.28	2.66	1.00	0.02
20.13	122.67	0.30	2.59	1.00	0.02	20.19	124.14	0.30	2.56	1.00	0.02
20.26	125.59	0.31	2.53	1.00	0.02	20.39	128.08	0.32	2.47	1.00	0.04
20.45	129.02	0.33	2.45	1.00	0.02	20.53	130.17	0.34	2.43	1.00	0.02
20.59	130.62	0.34	2.42	1.00	0.02	20.72	131.94	0.35	2.40	1.00	0.04
20.80	132.30	0.35	2.39	1.00	0.02	20.85	132.57	0.35	2.38	1.00	0.01
20.93	132.11	0.35	2.39	1.00	0.02	21.00	130.09	0.33	2.43	1.00	0.02
21.06	128.09	0.32	2.47	1.00	0.02	21.20	118.25	0.28	2.70	1.00	0.04
21.28	116.98	0.27	2.73	1.00	0.03	21.34	117.07	0.27	2.73	1.00	0.02
21.41	118.40	0.28	2.69	1.00	0.02	21.48	123.80	0.30	2.57	1.00	0.02
21.55	120.07	0.28	2.65	1.00	0.02	21.62	114.26	0.26	2.80	1.00	0.02
21.68	118.58	0.28	2.69	1.00	0.02	21.76	122.32	0.29	2.60	1.00	0.03
21.82	123.47	0.30	2.57	1.00	0.02	21.84	119.25	0.28	2.67	1.00	0.01
21.85	117.80	0.27	2.71	1.00	0.00	21.94	122.96	0.29	2.59	1.00	0.03
21.99	122.64	0.29	2.59	1.00	0.01	22.06	121.39	0.29	2.62	1.00	0.02
22.14	120.16	0.28	2.65	1.00	0.03	22.21	120.24	0.28	2.65	1.00	0.02
22.31	119.84	0.28	2.66	1.00	0.03	22.39	119.50	0.28	2.67	1.00	0.03
22.45	118.42	0.27	2.69	1.00	0.02	22.50	116.23	0.27	2.75	1.00	0.02
22.54	112.94	0.25	2.83	1.00	0.01	22.60	107.44	2.00	0.00	1.00	0.00
22.65	106.30	2.00	0.00	1.00	0.00	22.73	108.95	2.00	0.00	1.00	0.00
22.79	106.87	2.00	0.00	1.00	0.00	22.87	98.79	2.00	0.00	1.00	0.00
22.93	30.07	2.00	0.00	1.00	0.00	23.00	23.72	2.00	0.00	1.00	0.00
23.07	19.35	2.00	0.00	1.00	0.00	23.14	17.02	2.00	0.00	1.00	0.00
23.22	17.79	2.00	0.00	1.00	0.00	23.27	20.60	2.00	0.00	1.00	0.00
23.35	24.97	2.00	0.00	1.00	0.00	23.41	30.39	2.00	0.00	1.00	0.00
23.49	34.80	2.00	0.00	1.00	0.00	23.56	98.43	0.21	3.27	1.00	0.03
23.62	97.97	0.21	3.28	1.00	0.02	23.68	95.55	0.20	3.36	1.00	0.02
23.76	93.18	0.20	3.45	1.00	0.03	23.84	91.22	0.20	3.53	1.00	0.03
23.91	27.81	2.00	0.00	1.00	0.00	23.98	23.73	2.00	0.00	1.00	0.00
24.11	16.63	2.00	0.00	1.00	0.00	24.18	14.32	2.00	0.00	1.00	0.00
24.24	13.00	2.00	0.00	1.00	0.00	24.36	14.18	2.00	0.00	1.00	0.00
24.42	12.77	2.00	0.00	1.00	0.00	24.48	14.05	2.00	0.00	1.00	0.00
24.52	14.44	2.00	0.00	1.00	0.00	24.56	9.35	2.00	0.00	1.00	0.00
24.64	23.38	2.00	0.00	1.00	0.00	24.68	24.54	2.00	0.00	1.00	0.00
24.78	26.07	2.00	0.00	1.00	0.00	24.81	27.42	2.00	0.00	1.00	0.00
24.90	31.95	2.00	0.00	1.00	0.00	24.97	101.12	2.00	0.00	1.00	0.00
25.02	105.60	2.00	0.00	1.00	0.00	25.09	110.38	2.00	0.00	1.00	0.00
25.18	108.48	2.00	0.00	1.00	0.00	25.22	107.41	2.00	0.00	1.00	0.00
25.26	107.16	2.00	0.00	1.00	0.00	25.39	108.06	0.23	2.97	1.00	0.05
25.44	108.62	0.24	2.95	1.00	0.02	25.48	109.63	0.24	2.92	1.00	0.01
25.57	111.34	0.24	2.87	1.00	0.03	25.61	112.38	0.25	2.85	1.00	0.02
25.70	114.91	0.26	2.78	1.00	0.03	25.74	116.08	0.26	2.75	1.00	0.01
25.79	116.72	0.26	2.73	1.00	0.01	25.88	116.27	0.26	2.75	1.00	0.03

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
25.94	114.86	0.26	2.78	1.00	0.02	26.01	113.27	0.25	2.82	1.00	0.02
26.06	112.82	0.25	2.83	1.00	0.02	26.12	113.01	0.25	2.83	1.00	0.02
26.19	113.12	2.00	0.00	1.00	0.00	26.30	113.96	2.00	0.00	1.00	0.00
26.36	113.56	2.00	0.00	1.00	0.00	26.42	110.03	2.00	0.00	1.00	0.00
26.48	104.02	2.00	0.00	1.00	0.00	26.55	95.28	2.00	0.00	1.00	0.00
26.60	27.40	2.00	0.00	1.00	0.00	26.67	20.79	2.00	0.00	1.00	0.00
26.72	16.19	2.00	0.00	1.00	0.00	26.78	13.22	2.00	0.00	1.00	0.00
26.85	11.58	2.00	0.00	1.00	0.00	26.97	9.26	2.00	0.00	1.00	0.00
27.03	8.48	2.00	0.00	1.00	0.00	27.08	7.99	2.00	0.00	1.00	0.00
27.12	6.55	2.00	0.00	1.00	0.00	27.20	7.13	2.00	0.00	1.00	0.00
27.24	7.12	2.00	0.00	1.00	0.00	27.30	7.02	2.00	0.00	1.00	0.00
27.43	6.92	2.00	0.00	1.00	0.00	27.48	7.01	2.00	0.00	1.00	0.00
27.52	6.81	2.00	0.00	1.00	0.00	27.61	7.00	2.00	0.00	1.00	0.00
27.65	7.19	2.00	0.00	1.00	0.00	27.70	7.47	2.00	0.00	1.00	0.00
27.80	7.75	2.00	0.00	1.00	0.00	27.85	7.74	2.00	0.00	1.00	0.00
27.90	7.84	2.00	0.00	1.00	0.00	28.05	7.72	2.00	0.00	1.00	0.00
28.10	7.91	2.00	0.00	1.00	0.00	28.14	8.10	2.00	0.00	1.00	0.00
28.18	8.00	2.00	0.00	1.00	0.00	28.29	7.80	2.00	0.00	1.00	0.00
28.36	7.70	2.00	0.00	1.00	0.00	28.41	7.60	2.00	0.00	1.00	0.00
28.50	7.12	2.00	0.00	1.00	0.00	28.57	6.73	2.00	0.00	1.00	0.00
28.62	6.73	2.00	0.00	1.00	0.00	28.68	6.83	2.00	0.00	1.00	0.00
28.73	6.82	2.00	0.00	1.00	0.00	28.84	7.95	2.00	0.00	1.00	0.00
28.89	8.60	2.00	0.00	1.00	0.00	28.96	9.16	2.00	0.00	1.00	0.00
29.02	9.72	2.00	0.00	1.00	0.00	29.07	9.06	2.00	0.00	1.00	0.00
29.15	8.95	2.00	0.00	1.00	0.00	29.23	9.41	2.00	0.00	1.00	0.00
29.29	9.21	2.00	0.00	1.00	0.00	29.38	9.68	2.00	0.00	1.00	0.00
29.42	10.70	2.00	0.00	1.00	0.00	29.46	12.19	2.00	0.00	1.00	0.00
29.56	16.08	2.00	0.00	1.00	0.00	29.62	17.37	2.00	0.00	1.00	0.00
29.68	18.36	2.00	0.00	1.00	0.00	29.73	19.29	2.00	0.00	1.00	0.00
29.86	21.37	2.00	0.00	1.00	0.00	29.99	24.00	2.00	0.00	1.00	0.00
30.05	23.89	2.00	0.00	1.00	0.00	30.13	22.57	2.00	0.00	1.00	0.00
30.17	20.43	2.00	0.00	1.00	0.00	30.26	17.84	2.00	0.00	1.00	0.00
30.32	16.07	2.00	0.00	1.00	0.00	30.39	15.87	2.00	0.00	1.00	0.00
30.47	17.14	2.00	0.00	1.00	0.00	30.53	18.68	2.00	0.00	1.00	0.00
30.60	20.21	2.00	0.00	1.00	0.00	30.66	21.75	2.00	0.00	1.00	0.00
30.75	22.36	2.00	0.00	1.00	0.00	30.81	22.07	2.00	0.00	1.00	0.00
30.88	20.95	2.00	0.00	1.00	0.00	30.93	19.47	2.00	0.00	1.00	0.00
31.02	17.36	2.00	0.00	1.00	0.00	31.06	15.25	2.00	0.00	1.00	0.00
31.28	11.30	2.00	0.00	1.00	0.00	31.35	10.57	2.00	0.00	1.00	0.00
31.38	8.38	2.00	0.00	1.00	0.00	31.44	9.73	2.00	0.00	1.00	0.00
31.51	9.91	2.00	0.00	1.00	0.00	31.59	10.26	2.00	0.00	1.00	0.00
31.64	10.26	2.00	0.00	1.00	0.00	31.74	10.15	2.00	0.00	1.00	0.00
31.79	9.96	2.00	0.00	1.00	0.00	31.83	9.69	2.00	0.00	1.00	0.00
31.90	9.59	2.00	0.00	1.00	0.00	31.99	9.31	2.00	0.00	1.00	0.00
32.04	9.31	2.00	0.00	1.00	0.00	32.20	9.37	2.00	0.00	1.00	0.00
32.25	9.28	2.00	0.00	1.00	0.00	32.30	9.72	2.00	0.00	1.00	0.00
32.37	10.61	2.00	0.00	1.00	0.00	32.43	11.41	2.00	0.00	1.00	0.00
32.47	12.03	2.00	0.00	1.00	0.00	32.52	12.12	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
32.57	12.01	2.00	0.00	1.00	0.00	32.70	11.55	2.00	0.00	1.00	0.00
32.74	11.45	2.00	0.00	1.00	0.00	32.81	11.35	2.00	0.00	1.00	0.00
32.87	11.70	2.00	0.00	1.00	0.00	32.92	12.58	2.00	0.00	1.00	0.00
32.98	13.38	2.00	0.00	1.00	0.00	33.05	14.07	2.00	0.00	1.00	0.00
33.11	14.34	2.00	0.00	1.00	0.00	33.22	14.84	2.00	0.00	1.00	0.00
33.28	15.27	2.00	0.00	1.00	0.00	33.36	15.62	2.00	0.00	1.00	0.00
33.40	15.07	2.00	0.00	1.00	0.00	33.48	13.55	2.00	0.00	1.00	0.00
33.59	13.53	2.00	0.00	1.00	0.00	33.66	13.61	2.00	0.00	1.00	0.00
33.72	13.78	2.00	0.00	1.00	0.00	33.78	13.76	2.00	0.00	1.00	0.00
33.84	12.78	2.00	0.00	1.00	0.00	33.89	12.24	2.00	0.00	1.00	0.00
33.97	11.88	2.00	0.00	1.00	0.00	34.02	11.87	2.00	0.00	1.00	0.00
34.08	11.86	2.00	0.00	1.00	0.00	34.20	11.84	2.00	0.00	1.00	0.00
34.26	12.80	2.00	0.00	1.00	0.00	34.37	13.83	2.00	0.00	1.00	0.00
34.42	15.05	2.00	0.00	1.00	0.00	34.49	15.08	2.00	0.00	1.00	0.00
34.54	15.07	2.00	0.00	1.00	0.00	34.62	15.10	2.00	0.00	1.00	0.00
34.66	15.53	2.00	0.00	1.00	0.00	34.73	15.60	2.00	0.00	1.00	0.00
34.80	14.98	2.00	0.00	1.00	0.00	34.88	14.87	2.00	0.00	1.00	0.00
34.93	14.69	2.00	0.00	1.00	0.00	35.01	13.63	2.00	0.00	1.00	0.00
35.06	13.62	2.00	0.00	1.00	0.00	35.11	13.26	2.00	0.00	1.00	0.00
35.21	12.47	2.00	0.00	1.00	0.00	35.25	11.07	2.00	0.00	1.00	0.00
35.34	10.28	2.00	0.00	1.00	0.00	35.38	10.02	2.00	0.00	1.00	0.00
35.44	10.01	2.00	0.00	1.00	0.00	35.50	10.17	2.00	0.00	1.00	0.00
35.60	10.68	2.00	0.00	1.00	0.00	35.64	10.84	2.00	0.00	1.00	0.00
35.71	11.09	2.00	0.00	1.00	0.00	35.77	11.18	2.00	0.00	1.00	0.00
35.86	10.99	2.00	0.00	1.00	0.00	35.92	10.98	2.00	0.00	1.00	0.00
36.03	10.97	2.00	0.00	1.00	0.00	36.06	10.96	2.00	0.00	1.00	0.00
36.12	11.03	2.00	0.00	1.00	0.00	36.21	11.97	2.00	0.00	1.00	0.00
36.27	12.56	2.00	0.00	1.00	0.00	36.30	13.24	2.00	0.00	1.00	0.00
36.39	13.91	2.00	0.00	1.00	0.00	36.45	14.50	2.00	0.00	1.00	0.00
36.52	15.34	2.00	0.00	1.00	0.00	36.58	16.19	2.00	0.00	1.00	0.00
36.65	17.28	2.00	0.00	1.00	0.00	36.79	18.18	2.00	0.00	1.00	0.00
36.92	16.12	2.00	0.00	1.00	0.00	37.00	15.41	2.00	0.00	1.00	0.00
37.05	15.23	2.00	0.00	1.00	0.00	37.14	15.56	2.00	0.00	1.00	0.00
37.24	16.47	2.00	0.00	1.00	0.00	37.26	14.68	2.00	0.00	1.00	0.00
37.28	18.33	2.00	0.00	1.00	0.00	37.35	24.69	2.00	0.00	1.00	0.00
37.41	28.66	2.00	0.00	1.00	0.00	37.48	32.56	2.00	0.00	1.00	0.00
37.55	99.41	2.00	0.00	1.00	0.00	37.61	105.97	2.00	0.00	1.00	0.00
37.75	117.33	2.00	0.00	1.00	0.00	37.78	122.63	2.00	0.00	1.00	0.00
37.83	127.69	2.00	0.00	1.00	0.00	37.90	133.98	2.00	0.00	1.00	0.00
37.94	132.37	2.00	0.00	1.00	0.00	38.03	121.59	2.00	0.00	1.00	0.00
38.07	120.07	2.00	0.00	1.00	0.00	38.17	110.13	2.00	0.00	1.00	0.00
38.28	108.42	0.23	2.96	1.00	0.04	38.31	116.92	0.26	2.73	1.00	0.01
38.37	130.87	0.32	2.42	1.00	0.02	38.42	136.42	0.36	2.31	1.00	0.01
38.59	133.74	0.34	2.36	1.00	0.05	38.64	131.65	0.33	2.40	1.00	0.01
38.69	134.05	0.34	2.35	1.00	0.02	38.82	129.10	0.31	2.45	1.00	0.04
38.90	134.24	0.34	2.35	1.00	0.02	38.95	140.79	0.39	2.23	1.00	0.01
39.03	142.76	0.41	2.19	1.00	0.02	39.10	142.05	0.40	2.21	1.00	0.02
39.17	141.51	0.40	2.22	1.00	0.02	39.23	141.08	0.39	2.22	1.00	0.02

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
39.37	139.18	0.38	2.26	1.00	0.04	39.51	138.23	0.37	2.28	1.00	0.04
39.56	142.89	0.41	2.19	1.00	0.02	39.64	145.47	0.43	2.15	1.00	0.02
39.70	150.56	0.49	2.07	1.00	0.01	39.82	153.87	0.54	2.02	1.00	0.03
39.84	154.14	0.54	2.01	1.00	0.01	39.94	157.62	0.60	1.87	1.00	0.02
40.01	152.13	2.00	0.00	1.00	0.00	40.05	139.99	2.00	0.00	1.00	0.00
40.12	125.01	2.00	0.00	1.00	0.00	40.18	112.18	2.00	0.00	1.00	0.00
40.23	103.18	2.00	0.00	1.00	0.00	40.31	35.84	2.00	0.00	1.00	0.00
40.36	30.77	2.00	0.00	1.00	0.00	40.45	26.54	2.00	0.00	1.00	0.00
40.50	23.57	2.00	0.00	1.00	0.00	40.63	32.55	2.00	0.00	1.00	0.00
40.71	105.05	2.00	0.00	1.00	0.00	40.77	111.63	2.00	0.00	1.00	0.00
40.85	114.60	2.00	0.00	1.00	0.00	40.90	114.33	2.00	0.00	1.00	0.00
40.98	109.17	2.00	0.00	1.00	0.00	41.06	100.68	2.00	0.00	1.00	0.00
41.11	31.88	2.00	0.00	1.00	0.00	41.17	26.64	2.00	0.00	1.00	0.00
41.25	23.76	2.00	0.00	1.00	0.00	41.31	21.63	2.00	0.00	1.00	0.00
41.38	22.43	2.00	0.00	1.00	0.00	41.47	25.49	2.00	0.00	1.00	0.00
41.53	27.26	2.00	0.00	1.00	0.00	41.60	95.26	2.00	0.00	1.00	0.00
41.66	114.32	2.00	0.00	1.00	0.00	41.73	122.98	2.00	0.00	1.00	0.00
41.80	115.21	2.00	0.00	1.00	0.00	41.87	124.60	2.00	0.00	1.00	0.00
41.95	124.51	0.29	2.55	1.00	0.02	42.00	120.46	0.27	2.64	1.00	0.02
42.09	134.48	0.35	2.35	1.00	0.02	42.15	143.71	0.42	2.18	1.00	0.01
42.22	128.15	2.00	0.00	1.00	0.00	42.26	131.58	2.00	0.00	1.00	0.00
42.33	128.21	2.00	0.00	1.00	0.00	42.40	123.23	2.00	0.00	1.00	0.00
42.44	116.43	2.00	0.00	1.00	0.00	42.49	106.81	2.00	0.00	1.00	0.00
42.50	36.47	2.00	0.00	1.00	0.00	42.54	101.52	0.22	3.16	1.00	0.01
42.59	36.44	2.00	0.00	1.00	0.00	42.65	31.32	2.00	0.00	1.00	0.00
42.76	31.16	2.00	0.00	1.00	0.00	42.81	31.02	2.00	0.00	1.00	0.00
42.89	110.64	2.00	0.00	1.00	0.00	43.02	155.77	2.00	0.00	1.00	0.00
43.08	163.57	2.00	0.00	1.00	0.00	43.16	169.97	2.00	0.00	1.00	0.00
43.20	173.39	2.00	0.00	1.00	0.00	43.26	177.37	2.00	0.00	1.00	0.00
43.33	179.86	2.00	0.00	1.00	0.00	43.38	180.62	2.00	0.00	1.00	0.00
43.43	180.19	2.00	0.00	1.00	0.00	43.50	178.18	1.24	0.47	1.00	0.00
43.55	177.16	1.19	0.52	1.00	0.00	43.60	176.82	1.17	0.54	1.00	0.00
43.67	177.50	1.20	0.51	1.00	0.00	43.72	179.19	1.29	0.42	1.00	0.00
43.78	181.10	1.40	0.33	1.00	0.00	43.89	186.07	1.76	0.11	1.00	0.00
43.95	186.37	1.79	0.09	1.00	0.00	44.00	184.20	1.61	0.18	1.00	0.00
44.06	180.07	1.34	0.37	1.00	0.00	44.13	173.75	1.04	0.71	1.00	0.01
44.21	163.36	0.72	1.52	1.00	0.01	44.26	152.83	0.53	2.03	1.00	0.01
44.35	146.29	0.45	2.14	1.00	0.02	44.40	145.56	0.44	2.15	1.00	0.01
44.48	153.09	0.53	2.03	1.00	0.02	44.54	166.95	0.81	1.19	1.00	0.01
44.62	170.99	0.93	0.89	1.00	0.01	44.66	168.08	0.84	1.10	1.00	0.01
44.80	167.94	0.84	1.11	1.00	0.02	44.87	168.23	0.85	1.08	1.00	0.01
44.90	168.22	0.85	1.08	1.00	0.00	45.04	168.14	0.84	1.09	1.00	0.02
45.12	167.42	2.00	0.00	1.00	0.00	45.25	164.32	2.00	0.00	1.00	0.00
45.31	161.96	2.00	0.00	1.00	0.00	45.44	155.24	2.00	0.00	1.00	0.00
45.52	149.94	2.00	0.00	1.00	0.00	45.58	141.78	2.00	0.00	1.00	0.00
45.72	118.57	2.00	0.00	1.00	0.00	45.79	116.93	2.00	0.00	1.00	0.00
45.85	115.71	2.00	0.00	1.00	0.00	45.99	113.71	2.00	0.00	1.00	0.00
46.06	123.76	2.00	0.00	1.00	0.00	46.12	118.10	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
46.19	106.13	2.00	0.00	1.00	0.00	46.26	34.77	2.00	0.00	1.00	0.00
46.33	26.82	2.00	0.00	1.00	0.00	46.42	22.18	2.00	0.00	1.00	0.00
46.47	19.95	2.00	0.00	1.00	0.00	46.60	18.85	2.00	0.00	1.00	0.00
46.68	17.62	2.00	0.00	1.00	0.00	46.73	16.54	2.00	0.00	1.00	0.00
46.81	15.47	2.00	0.00	1.00	0.00	46.87	14.48	2.00	0.00	1.00	0.00
46.95	14.09	2.00	0.00	1.00	0.00	47.03	13.93	2.00	0.00	1.00	0.00
47.08	13.77	2.00	0.00	1.00	0.00	47.21	14.27	2.00	0.00	1.00	0.00
47.30	14.71	2.00	0.00	1.00	0.00	47.35	14.93	2.00	0.00	1.00	0.00
47.44	14.99	2.00	0.00	1.00	0.00	47.48	14.76	2.00	0.00	1.00	0.00
47.57	14.52	2.00	0.00	1.00	0.00	47.62	14.29	2.00	0.00	1.00	0.00
47.70	14.12	2.00	0.00	1.00	0.00	47.78	14.04	2.00	0.00	1.00	0.00
47.83	13.96	2.00	0.00	1.00	0.00	47.91	13.95	2.00	0.00	1.00	0.00
47.97	13.94	2.00	0.00	1.00	0.00	48.05	14.08	2.00	0.00	1.00	0.00
48.11	14.07	2.00	0.00	1.00	0.00	48.19	13.99	2.00	0.00	1.00	0.00
48.24	13.53	2.00	0.00	1.00	0.00	48.26	12.19	2.00	0.00	1.00	0.00
48.31	13.08	2.00	0.00	1.00	0.00	48.43	16.86	2.00	0.00	1.00	0.00
48.49	18.20	2.00	0.00	1.00	0.00	48.61	18.77	2.00	0.00	1.00	0.00
48.69	18.23	2.00	0.00	1.00	0.00	48.75	17.39	2.00	0.00	1.00	0.00
48.88	14.56	2.00	0.00	1.00	0.00	48.96	13.21	2.00	0.00	1.00	0.00
49.01	12.25	2.00	0.00	1.00	0.00	49.09	13.09	2.00	0.00	1.00	0.00
49.23	12.96	2.00	0.00	1.00	0.00	49.28	14.14	2.00	0.00	1.00	0.00
49.36	15.09	2.00	0.00	1.00	0.00	49.41	16.12	2.00	0.00	1.00	0.00
49.50	18.40	2.00	0.00	1.00	0.00	49.56	25.05	2.00	0.00	1.00	0.00
49.63	35.28	2.00	0.00	1.00	0.00	49.69	44.81	2.00	0.00	1.00	0.00
49.77	48.99	2.00	0.00	1.00	0.00	49.85	51.22	2.00	0.00	1.00	0.00
49.90	115.40	0.26	2.77	1.00	0.02	49.98	110.24	0.25	2.90	1.00	0.03
50.04	42.15	2.00	0.00	1.00	0.00	50.12	101.62	0.22	3.16	1.00	0.03
50.20	99.05	0.22	3.24	1.00	0.03	50.26	33.81	2.00	0.00	1.00	0.00
50.34	28.81	2.00	0.00	1.00	0.00	50.39	24.98	2.00	0.00	1.00	0.00
50.53	31.71	2.00	0.00	1.00	0.00	50.61	46.73	2.00	0.00	1.00	0.00
50.66	117.65	0.27	2.71	1.00	0.02	50.74	114.48	2.00	0.00	1.00	0.00
50.80	123.48	2.00	0.00	1.00	0.00	50.87	146.15	2.00	0.00	1.00	0.00
50.95	157.18	2.00	0.00	1.00	0.00	51.00	162.91	2.00	0.00	1.00	0.00
51.14	171.92	0.98	0.80	1.00	0.01	51.22	179.73	1.34	0.38	1.00	0.00
51.27	173.17	1.03	0.73	1.00	0.00	51.53	163.00	0.72	1.50	1.00	0.05
51.59	161.52	0.69	1.64	1.00	0.01	51.67	160.77	2.00	0.00	1.00	0.00
51.71	160.79	2.00	0.00	1.00	0.00	51.79	168.07	2.00	0.00	1.00	0.00
51.88	164.29	2.00	0.00	1.00	0.00	51.93	151.86	2.00	0.00	1.00	0.00
51.97	139.20	2.00	0.00	1.00	0.00	52.07	46.58	2.00	0.00	1.00	0.00
52.12	37.07	2.00	0.00	1.00	0.00	52.19	30.32	2.00	0.00	1.00	0.00
52.24	26.17	2.00	0.00	1.00	0.00	52.34	20.86	2.00	0.00	1.00	0.00
52.42	18.38	2.00	0.00	1.00	0.00	52.47	16.35	2.00	0.00	1.00	0.00
52.51	14.97	2.00	0.00	1.00	0.00	52.64	14.11	2.00	0.00	1.00	0.00
52.68	13.88	2.00	0.00	1.00	0.00	52.73	13.38	2.00	0.00	1.00	0.00
52.80	12.87	2.00	0.00	1.00	0.00	52.86	12.65	2.00	0.00	1.00	0.00
52.96	13.14	2.00	0.00	1.00	0.00	53.02	13.13	2.00	0.00	1.00	0.00
53.08	13.12	2.00	0.00	1.00	0.00	53.13	13.12	2.00	0.00	1.00	0.00
53.17	13.11	2.00	0.00	1.00	0.00	53.23	13.10	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
53.30	13.09	2.00	0.00	1.00	0.00	53.40	14.08	2.00	0.00	1.00	0.00
53.45	14.92	2.00	0.00	1.00	0.00	53.53	15.41	2.00	0.00	1.00	0.00
53.57	15.40	2.00	0.00	1.00	0.00	53.69	13.69	2.00	0.00	1.00	0.00
53.75	15.27	2.00	0.00	1.00	0.00	53.79	12.75	2.00	0.00	1.00	0.00
53.92	15.14	2.00	0.00	1.00	0.00	53.97	17.62	2.00	0.00	1.00	0.00
54.02	20.40	2.00	0.00	1.00	0.00	54.08	22.76	2.00	0.00	1.00	0.00
54.14	27.15	2.00	0.00	1.00	0.00	54.19	33.49	2.00	0.00	1.00	0.00
54.25	35.90	2.00	0.00	1.00	0.00	54.30	35.52	2.00	0.00	1.00	0.00
54.36	32.87	2.00	0.00	1.00	0.00	54.41	29.20	2.00	0.00	1.00	0.00
54.47	24.77	2.00	0.00	1.00	0.00	54.54	21.37	2.00	0.00	1.00	0.00
54.62	16.52	2.00	0.00	1.00	0.00	54.68	18.77	2.00	0.00	1.00	0.00
54.73	17.78	2.00	0.00	1.00	0.00	54.80	18.12	2.00	0.00	1.00	0.00
54.90	107.82	0.24	2.97	1.00	0.04	54.98	135.79	0.37	2.32	1.00	0.02
55.03	134.09	0.36	2.35	1.00	0.01	55.09	136.02	2.00	0.00	1.00	0.00
55.16	145.38	2.00	0.00	1.00	0.00	55.24	154.35	2.00	0.00	1.00	0.00
55.37	144.98	2.00	0.00	1.00	0.00	55.43	134.16	2.00	0.00	1.00	0.00
55.51	120.02	2.00	0.00	1.00	0.00	55.57	42.21	2.00	0.00	1.00	0.00
55.64	34.33	2.00	0.00	1.00	0.00	55.71	29.07	2.00	0.00	1.00	0.00
55.78	24.68	2.00	0.00	1.00	0.00	55.86	21.52	2.00	0.00	1.00	0.00
55.91	18.75	2.00	0.00	1.00	0.00	56.00	16.84	2.00	0.00	1.00	0.00
56.07	18.30	2.00	0.00	1.00	0.00	56.14	17.87	2.00	0.00	1.00	0.00
56.18	18.00	2.00	0.00	1.00	0.00	56.28	19.88	2.00	0.00	1.00	0.00
56.33	21.91	2.00	0.00	1.00	0.00	56.40	24.01	2.00	0.00	1.00	0.00
56.50	28.11	2.00	0.00	1.00	0.00	56.55	27.74	2.00	0.00	1.00	0.00
56.60	26.03	2.00	0.00	1.00	0.00	56.67	24.40	2.00	0.00	1.00	0.00
56.72	24.52	2.00	0.00	1.00	0.00	56.77	26.35	2.00	0.00	1.00	0.00
56.89	36.25	2.00	0.00	1.00	0.00	56.94	104.70	2.00	0.00	1.00	0.00
56.99	109.27	2.00	0.00	1.00	0.00	57.06	110.80	2.00	0.00	1.00	0.00
57.12	112.22	2.00	0.00	1.00	0.00	57.19	112.35	2.00	0.00	1.00	0.00
57.25	110.10	2.00	0.00	1.00	0.00	57.32	107.61	2.00	0.00	1.00	0.00
57.38	103.34	2.00	0.00	1.00	0.00	57.43	37.03	2.00	0.00	1.00	0.00
57.51	33.27	2.00	0.00	1.00	0.00	57.58	31.16	2.00	0.00	1.00	0.00
57.65	30.97	2.00	0.00	1.00	0.00	57.70	92.55	0.21	3.47	1.00	0.02
57.78	94.45	0.21	3.40	1.00	0.03	57.84	33.28	2.00	0.00	1.00	0.00
57.91	30.29	2.00	0.00	1.00	0.00	57.97	25.90	2.00	0.00	1.00	0.00
58.05	21.56	2.00	0.00	1.00	0.00	58.09	18.58	2.00	0.00	1.00	0.00
58.17	16.77	2.00	0.00	1.00	0.00	58.22	15.33	2.00	0.00	1.00	0.00
58.31	13.81	2.00	0.00	1.00	0.00	58.35	12.87	2.00	0.00	1.00	0.00
58.44	12.72	2.00	0.00	1.00	0.00	58.58	16.85	2.00	0.00	1.00	0.00
58.62	24.82	2.00	0.00	1.00	0.00	58.70	31.12	2.00	0.00	1.00	0.00
58.76	32.05	2.00	0.00	1.00	0.00	58.82	28.94	2.00	0.00	1.00	0.00
58.89	24.11	2.00	0.00	1.00	0.00	58.95	19.40	2.00	0.00	1.00	0.00
58.95	16.45	2.00	0.00	1.00	0.00	59.01	17.40	2.00	0.00	1.00	0.00
59.07	15.14	2.00	0.00	1.00	0.00	59.13	14.12	2.00	0.00	1.00	0.00
59.19	13.24	2.00	0.00	1.00	0.00	59.29	12.15	2.00	0.00	1.00	0.00
59.34	11.88	2.00	0.00	1.00	0.00	59.43	11.80	2.00	0.00	1.00	0.00
59.49	12.00	2.00	0.00	1.00	0.00	59.59	13.60	2.00	0.00	1.00	0.00
59.65	13.86	2.00	0.00	1.00	0.00	59.69	13.52	2.00	0.00	1.00	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)	Depth (ft)	$q_{c1N,cs}$	FS	e_v (%)	DF	Settlement (in)
59.74	13.44	2.00	0.00	1.00	0.00	59.81	13.97	2.00	0.00	1.00	0.00
59.91	21.16	2.00	0.00	1.00	0.00	59.96	29.03	2.00	0.00	1.00	0.00
60.02	36.71	2.00	0.00	1.00	0.00	60.14	109.64	2.00	0.00	1.00	0.00
60.19	115.47	2.00	0.00	1.00	0.00	60.25	122.94	2.00	0.00	1.00	0.00
60.31	130.85	2.00	0.00	1.00	0.00	60.36	135.03	2.00	0.00	1.00	0.00
60.41	136.84	2.00	0.00	1.00	0.00	60.48	139.46	2.00	0.00	1.00	0.00
60.53	138.23	2.00	0.00	1.00	0.00	60.58	134.85	2.00	0.00	1.00	0.00
60.64	130.79	2.00	0.00	1.00	0.00	60.76	122.05	2.00	0.00	1.00	0.00
60.80	118.12	2.00	0.00	1.00	0.00	60.85	49.23	2.00	0.00	1.00	0.00
60.93	47.54	2.00	0.00	1.00	0.00	60.98	48.75	2.00	0.00	1.00	0.00
61.09	137.69	2.00	0.00	1.00	0.00	61.15	156.50	2.00	0.00	1.00	0.00
61.20	170.37	2.00	0.00	1.00	0.00	61.25	176.64	2.00	0.00	1.00	0.00
61.37	178.70	1.32	0.39	1.00	0.01	61.42	176.07	1.19	0.52	1.00	0.00
61.47	172.68	1.04	0.71	1.00	0.00	61.53	170.33	0.96	0.85	1.00	0.01
61.59	164.01	2.00	0.00	1.00	0.00	61.64	159.17	2.00	0.00	1.00	0.00
61.70	154.50	2.00	0.00	1.00	0.00	61.76	149.67	2.00	0.00	1.00	0.00
61.82	144.58	2.00	0.00	1.00	0.00	61.88	127.41	2.00	0.00	1.00	0.00
61.95	127.07	0.33	2.50	1.00	0.02	62.04	117.02	0.28	2.73	1.00	0.03
62.12	42.95	2.00	0.00	1.00	0.00	62.14	39.38	2.00	0.00	1.00	0.00
62.23	33.68	2.00	0.00	1.00	0.00	62.30	29.15	2.00	0.00	1.00	0.00
62.34	26.93	2.00	0.00	1.00	0.00	62.43	24.38	2.00	0.00	1.00	0.00
62.48	23.69	2.00	0.00	1.00	0.00	62.56	22.45	2.00	0.00	1.00	0.00
62.61	21.70	2.00	0.00	1.00	0.00	62.70	20.41	2.00	0.00	1.00	0.00
62.74	21.95	2.00	0.00	1.00	0.00	62.85	36.49	2.00	0.00	1.00	0.00
62.96	125.00	2.00	0.00	1.00	0.00	63.01	136.17	2.00	0.00	1.00	0.00
63.10	136.35	2.00	0.00	1.00	0.00	63.15	127.49	2.00	0.00	1.00	0.00
63.20	122.64	2.00	0.00	1.00	0.00	63.27	131.56	2.00	0.00	1.00	0.00
63.36	148.60	2.00	0.00	1.00	0.00	63.45	156.46	0.62	1.95	1.00	0.02
63.50	158.71	0.66	1.80	1.00	0.01	63.61	160.66	0.70	1.63	1.00	0.02
63.76	162.00	0.73	1.49	1.00	0.03	63.81	164.95	0.80	1.23	1.00	0.01
63.86	167.24	0.87	1.05	1.00	0.01	63.92	167.38	0.87	1.04	1.00	0.01
63.98	165.51	0.82	1.18	1.00	0.01	64.02	163.00	0.76	1.39	1.00	0.01
64.07	161.43	0.72	1.55	1.00	0.01	64.12	160.88	0.71	1.60	1.00	0.01
64.18	160.48	0.70	1.64	1.00	0.01	64.24	160.56	0.70	1.63	1.00	0.01
64.34	160.74	0.71	1.62	1.00	0.02	64.43	166.38	0.84	1.11	1.00	0.01
64.48	166.57	0.85	1.09	1.00	0.01	64.55	166.65	0.85	1.09	1.00	0.01
64.60	167.56	0.88	1.02	1.00	0.01	64.69	171.83	1.02	0.74	1.00	0.01
64.74	174.50	1.13	0.59	1.00	0.00	64.79	177.89	1.29	0.42	1.00	0.00
64.89	166.21	2.00	0.00	1.00	0.00	64.93	168.31	2.00	0.00	1.00	0.00
64.98	170.33	2.00	0.00	1.00	0.00	65.07	174.45	2.00	0.00	1.00	0.00
65.14	175.78	2.00	0.00	1.00	0.00	65.19	177.05	2.00	0.00	1.00	0.00

Total estimated settlement: 4.56

Abbreviations

$Q_{tn,cs}$:	Equivalent clean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

APPENDIX F

WELL PERMIT DOCUMENTS

J. Anzora

APPLICATION FOR WELL/EXPLORATORY BORING PERMIT

ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH DIVISION
1241 E. DYER ROAD, SUITE 120
SANTA ANA, CA 92705-5611
EHOCWELLS@OCHCA.COM
714-433-6000

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WELL PERMIT NO. 21-12-30

Permit expires on 12.30.2022

For multiple cities, addresses, or locations, complete a separate permit application. **PROPOSED START DATE**

CITY: Cypress

WELL LOCATION / STREET INTERSECTION: 5665 and 5757 Plaza Drive / off of Katella and Valley View

LONGTITUDE (DECIMAL)

LATITUDE (DECIMAL)

OVERSIGHT AGENCY (if applicable)

EMAIL PERMIT TO: ehaaker@g3soilworks.com

■ Consultant ☐ Driller ☐ Well Owner

SERVICE ■ **Construction** ☐ **Destruction (Fee is per well)**

WATER WELLS (complete one permit application for per water well)
☐ Public Domestic/Municipal ☐ Private Domestic & No. of connections ___ ☐ Irrigation

☐ CATHODIC WELL (complete one permit application for per cathodic well)

NON-PRODUCTION WELLS (fee is the same as monitoring well construction) Total No. of Wells 5

■ Monitoring 5 ☐ Air Sparge ___ ☐ Soil Vapor Extraction ___ ☐ Electrical Grounding Well ___

☐ Water Extraction ___ ☐ Inclinometer ___ ☐ Injection/Recharge ___ ☐ Geothermal Heat Exchange ___

☐ Piezometer ___ ☐ Horizontal ___ ☐ Soil Vapor Probes ___ ☐ Other ___

EXPLORATORY BORINGS
(complete separate permits for probe survey and soil boring. Also complete the WELL & EXPLORATORY BORING DESTRUCTION section on the next page.)

☐ Probe Survey (CPT or Direct Push Only) ___
☐ Probe Survey Soil Vapor Probes (Direct Push) ___
☐ Soil Boring (hollow stem auger, mud rotary, sonic, or bucket auger, etc...) ___

FOR ACCOUNTING USE ONLY

HSO NO 417390 CHECK NO. 3901

DATE 1/13/22 AMOUNT $1005-

INTL LM

APPROVAL BY OTHER AGENCIES

JURISDICTION

REMARKS

AUTHORIZED SIGNATURE DATE

FOR OFFICE USE ONLY
NO PERMIT IS DEEMED COMPLETED UNTIL THE FOLLOWING ARE MARKED AND SIGNED OFF:
☐ NOTIFICATION OF COMPLETION RECEIVED
☐ FINAL INSPECTION
☐ ALL REQUIRED DOCUMENTS RECEIVED

PRINT NAME PHONE NUMBER

DISPOSITION OF PERMIT (FOR OFFICE USE ONLY)

☒ APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:

NOTIFY THIS AGENCY AT LEAST 48 HOURS:

☒ PRIOR TO ANY CHANGES OF THE WORK PLAN.
☐ PRIOR TO SEALING THE ANNULAR SPACE.
☐ PRIOR TO FILLING OF CONDUCTOR CASING.

☒ SUBMIT TO THIS AGENCY, WITHIN 30 DAYS OF COMPLETION OF WORK, A COPY OF THE WELL COMPLETION REPORT(S) AND/OR DRILLING LOG(S). PLEASE REFERENCE PERMIT NO.

☒ SECURE ALL WELLS TO PREVENT TAMPERING.

☒ NOTIFY WHEN ALL WORK IS COMPLETED AND INCLUDE THE DEPTH TO FIRST ENCOUNTERED WATER, PHOTO DOCUMENTATION, AND/OR COPIES OF CEMENT TICKETS/CALCULATIONS.

☐ WORK COMPLETED PRIOR TO SUBMITTING PERMIT APPLICATION TO THIS AGENCY

☐ OTHER

Juan Anzora 12.29.2021
PERMIT ISSUED BY DATE

Juan Anzora 7144736287
PRINT NAME PHONE NUMBER

WHEN SIGNED BY AN ORANGE COUNTY HEALTH CARE AGENCY REPRESENTATIVE, THIS APPLICATION IS A VALID PERMIT.
(R10/21)

I hereby agree to comply with all applicable requirements of the Health Care Agency and with all ordinances and laws of the County of Orange and of the State of California pertaining to well construction, reconstruction and destruction, including the requirements to maintain the integrity of all significant confining zones. A violation of the California Well Standards and the local Well Ordinance is likely to constitute a misdemeanor (County Well Ordinance Sec. 4-5-31).

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WELL OWNER

WELL OWNER'S NAME	EMAIL ADDRESS
GLC Cypress LLC	blair.dahl@goodman.com

WELL OWNER'S ADDRESS / CITY / STATE/ ZIP CODE	TELEPHONE NUMBER
18201 Von Karman Avenue, Suite 1170, Irvine, CA 92612	(949) 407-0118

WELL OWNER'S SIGNATURE	DATE
Alan Cockburn Digitally signed by Alan Cockburn Date: 2021.12.23 17:38:22 -08'00'	

CONSULTING FIRM

NAME OF CONSULTING FIRM	BUSINESS ADDRESS/CITY/STATE/ZIP CODE	PROFESSIONAL LICENSE NUMBER
G3SoiWorks, Inc.	350 Fischer Avenue, Costa Mesa, CA 92626	PG 9409, CEG 2708

CONSULTANT'S SIGNATURE	DATE	EMAIL ADDRESS
Erik Haaker Digitally signed by Erik Haaker Date: 2021.12.23 14:22:54 -08'00'		ehaaker@g3soilworks.com

DRILLING CONTRACTOR

NAME OF DRILLER	EMAIL ADDRESS	C-57 LICENSE NUMBER
J & H Drilling Company	steve@mrdrillco.com	740854

DRILLER'S SIGNATURE	DATE
Steve Molera	12/29/2021

REQUIRED DOCUMENTS

WATER & STORMWATER DRY INJECTION WELL CONSTRUCTION

☐ An approval from the Division of Drinking Water (DDW) for public or municipal water wells.

☐ A cross-section well diagram detailing total depth, borehole diameter, depth and thickness of the sanitary seal(s), type(s) of casing(s), and length(s) of screen(s) / slotting. A top view is required for nested wells that demonstrate the radial thickness separation.

☐ Indicate the number of water aquifers the well will be screened through.

☐ A site map using a 250-foot radius from the proposed water well location that includes locations and distances to:

- All existing, active, inactive, and/or abandoned water wells.
- All existing, abandoned, and/or proposed sewer lines, recycled water lines, and storm drain lines.
- All active and/or abandoned leach fields, cesspits, and septic tanks.
- All animal enclosures (e.g., stables, coops, kennels, etc.).
- All water courses and/or bodies of water, including, but not limited to: rivers, creeks, ponds, retention ponds, and/or swimming pools.
- All other underground storage tanks and open (regulated) remediation sites.
- All nearby structures (e.g., commercial and residential buildings, houses, storage sheds) sanitary hazards and their locations.

NON-PRODUCTION WELL CONSTRUCTION

■ Written work plan. For regulated sites, an approved work plan by the overseeing regulatory agency must be included for the installation of any type of nested well.

■ Site map(s) showing the locations of the proposed wells (no topographical maps).

■ A cross-section well diagram detailing total depth, borehole diameter, depth and thickness of the sanitary seal(s), type(s) of casing(s), and length(s) of screen(s) / slotting. A top view is required for nested wells that demonstrates a 2-inch radial thickness separation between casings and casing and wall of the borehole.

WELL & EXPLORATORY BORING DESTRUCTION

☐ Written work plan. For regulated sites, an approval of the work plan by the overseeing regulatory agency must be included.

☐ Site map(s) showing the locations of the wells to be destroyed (no topographical maps).

☐ Type and amount of sealant (show calculations for water wells):

Total depth _____feet Borehole diameter _____inches Sealing material Select One of the Approved Materials

☐ Method of destruction:

☐ Pressure grout / removal of top 5 feet casing / removal of well boxes ☐ Overdrill ☐ Excavation

☐ Other

(R10/21)

Notes: - Not to scale;
- Refer to notes for depths / dimensions;
- For illustrative purposes only
- Refer to Work Plan for more information.

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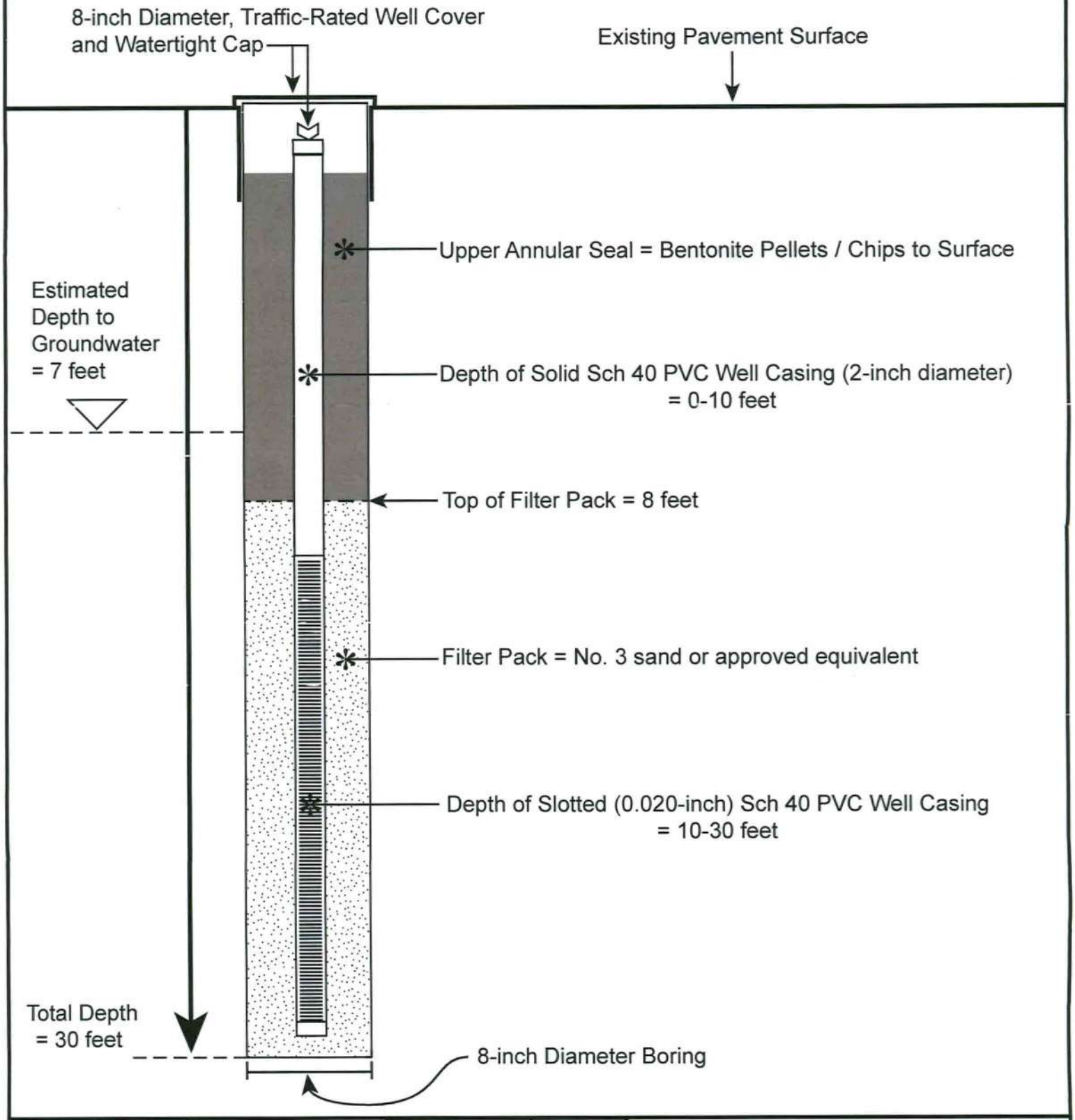

Well Construction Diagram (B-1 & B-5)	Project No. 1-1209	Dec. 2021	G3SoilWorks
5665-5757 Plaza Drive	Cypress, CA	Figure 2	

350 Fischer Ave. Front
Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

Notes: - Not to scale;
- Refer to notes for depths / dimensions;
- For illustrative purposes only
- Refer to Work Plan for more information.

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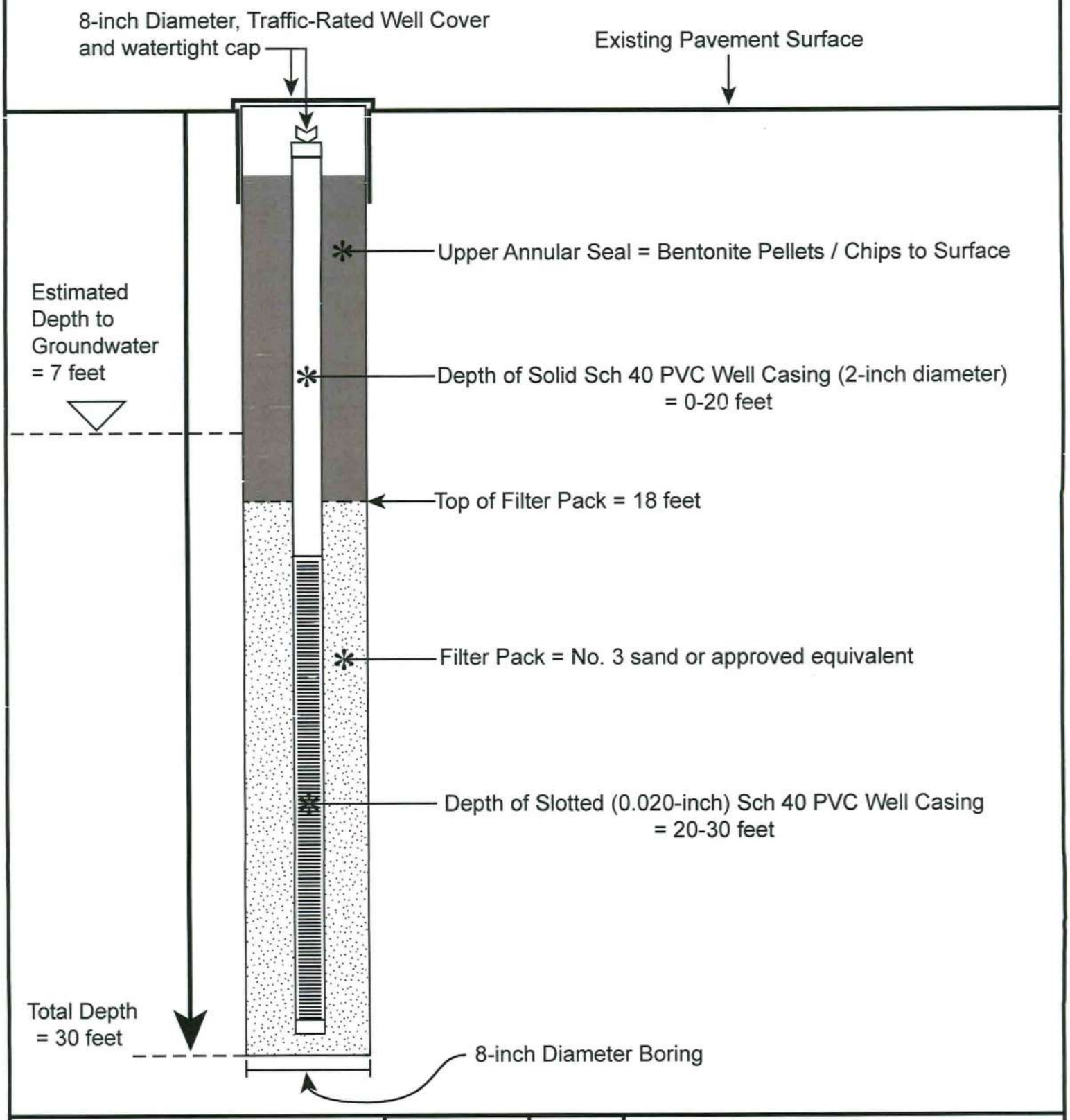
ENVIRONMENTAL HLTH



Well Construction Diagram (B-2 & B-4)	Project No. 1-1209	Dec. 2021	G3SoilWorks
5665-5757 Plaza Drive	Cypress, CA	Figure 3	

350 Fischer Ave. Front
Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

Notes: - Not to scale;
- Refer to notes for depths / dimensions;
- For illustrative purposes only
- Refer to Work Plan for more information.

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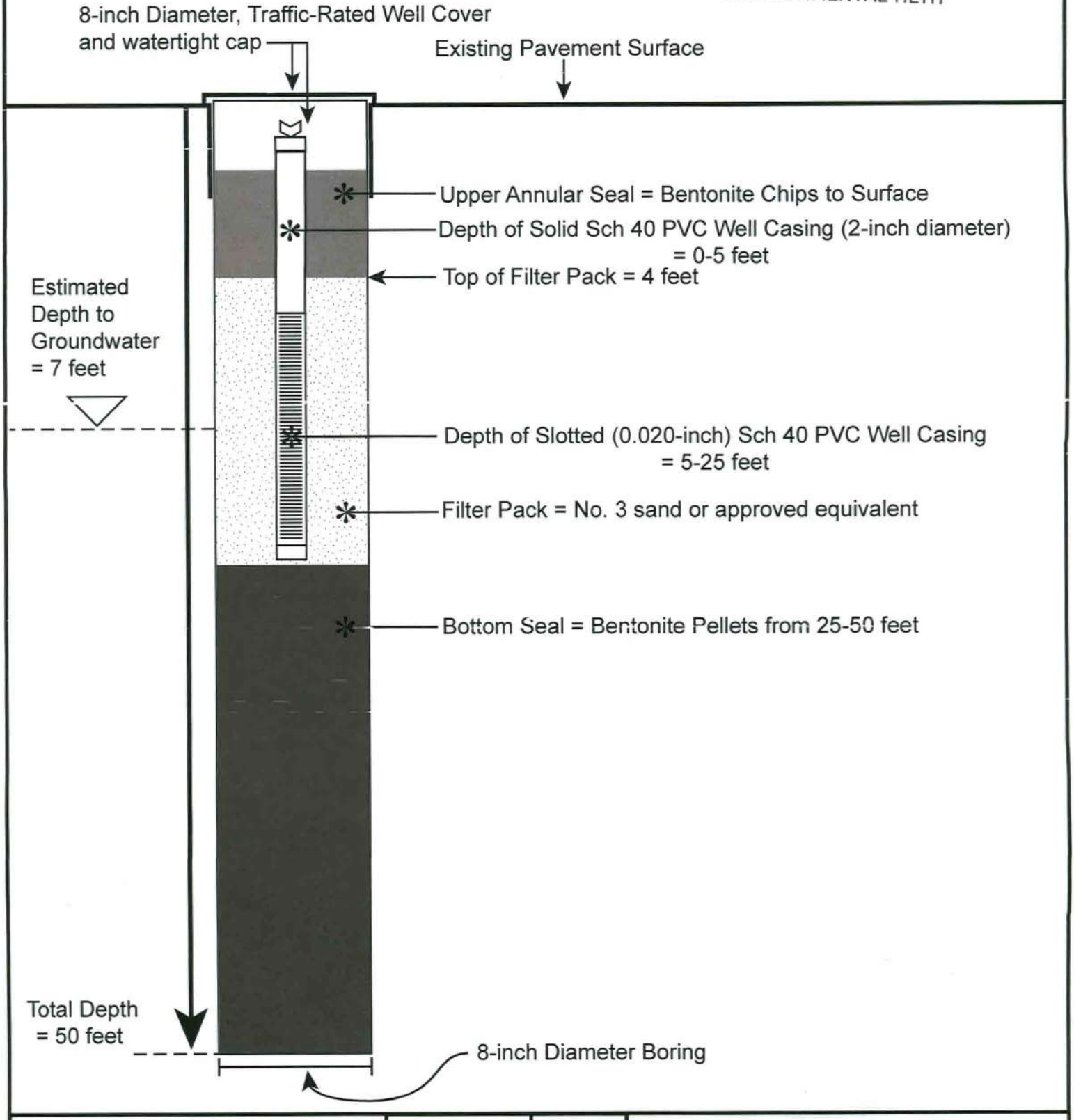
JAN 12 2022
ENVIRONMENTAL HLTH



Well Construction Diagram (B-3)	Project No. 1-1209	Dec. 2021	G3SoilWorks
5665-5757 Plaza Drive	Cypress, CA	Figure 4	

350 Fischer Ave. Front
Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

Well Location Map		Proj. No. 1-1209	Dec. 2021
5665 and 5757 Plaza Drive	Cypress, CA		Figure 1

G3 SoilWorks
350 Fischer Ave. Front
Costa Mesa, CA 92626
Phone: (714) 668 5600
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G3SoilWorks
GEOLOGY · GEOTECH · GROUNDWATER

Orange County Health Care Agency
Environmental Health Division
1241 East Dyer Road, Suite 120
Santa Ana, CA 92705

December 27, 2021
Project No. 1-1209

Attention: Mr. Juan Anzora

Subject: **Work Plan for Well Construction Permit Application**
Geotechnical Investigation for
Proposed Commercial / Industrial Development
5665 and 5757 Plaza Drive
Cypress, California

References: Orange County Health Care Agency – Environmental Health Division
Application for Well Destruction Permit. dated December 23, 2021.

Dear Mr. Anzora,

G3SoilWorks, Inc. (G3), is providing this Work Plan for the construction of five (5) temporary monitoring wells to be located at the subject address. The proposed Work Plan and supporting information presented herein are provided as an attachment to the referenced Orange County Health Care Agency – Environmental Health Division (OCHCA-EHD) Application for Well Construction Permit dated December 23, 2021.

PURPOSE / INTENT

The purpose of our work, in accordance with this Work Plan, will be to construct five (5) temporary monitoring wells at the subject property for the purposes of monitoring groundwater elevations as part of our geotechnical investigation for the proposed commercial / industrial development. The wells will be constructed in accordance with County requirements (i.e., Bulletin for Annular Sealing Material, Bulletin for Destruction of Monitoring Wells and Soil Borings, California Well Standards, etc.) and California Well Standards.

PROJECT DESCRIPTION / BACKGROUND

As shown on Figure 1 (attached), the subject site is located northerly adjacent to Katella Avenue and Plaza Drive, between Walker Street and Valley View Street, in the City of Cypress. The property is generally flat-lying to very gently sloping and is occupied by paved parking areas at the proposed well locations. A total of five (5) temporary monitoring wells are to be constructed as part of G3's geotechnical investigation for the subject proposed commercial / industrial development. These wells are to be constructed in accordance with the attached well construction diagrams (Figures 2-4) and will range in depth from 25 to 30 feet below existing ground surface. One of the wells (B-3) will be drilled to 50 feet for the purposes of geotechnical sampling and testing, then sealed and set to a depth of 25 feet as shown on Figure 4.

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SOILS AND GROUNDWATER

Based on review of available geologic mapping and subsurface information, the site is underlain by Quaternary alluvium associated with the ancestral Santa Ana River. Soils include anastomosed / interfingered and interbedded sequences of poorly-graded sand, silty sand, sandy silt, and silty clay. Shallow groundwater is anticipated at depths of approximately 7 feet below ground surface and is understood to be "first water" of non-beneficial use.

METHODOLOGY / WORK PLAN

The proposed temporary monitoring wells will be located within the limits of the property as shown Figure 1 (attached). The wells will be constructed by a C-57 licensed drilling contractor according to the attached well construction diagrams (Figures 2-4), with oversight and documentation by G3. The wells will remain in place for monitoring purposes until construction of the proposed commercial / industrial development begins. At some point during the construction phase, a well destruction permit application will be submitted for County review and approval, and the wells will be destroyed by a licensed C-57 drilling contractor in accordance with the approved well destruction permit.

DISCUSSION / CONCLUSION

It is our opinion that the above work plan meets the intent of California Well Standards and conforms with applicable County requirements for well construction. Our work will be performed in accordance with the approved well construction permit and work plan proposed herein.

CLOSURE

We thank you for your assistance and look forward to working with you in the future. If you have any questions or require additional information, please do not hesitate to contact the undersigned.

Respectfully submitted,

G3SoilWorks, Inc.

By: _____
Erik C. Haaker, P.G., C.E.G.
Senior Engineering Geologist

Attachments:
Figure 1 – Well Location Map
Figure 2 – Well Construction Diagram (B-1 & B-5)
Figure 3 – Well Construction Diagram (B-2 & B-4)
Figure 4 – Well Construction Diagram (B-3)
OCHCA-EHD Application for Well Construction Permit

Distribution: Addressee (PDF electronic mail)

RECEIVED HCA

JAN 12 2022

ENVIRONMENTAL HLTH

ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH DIVISION
HEALTH SERVICE ORDER 417390

Wells

Date 1/13/22 Initials VL

Client Name GLC Cypress LLC

Address 4665 & 5757 Plaza Dr. off Katella & Valley View

Cypress Ca. Ph#

Paid By G3 Soil Works Inc.

Address 350 Fischer Ave-Front

Costa Mesa Ca. 92626 Ph# (714) 668-5600

Please circle the respective service code(s)

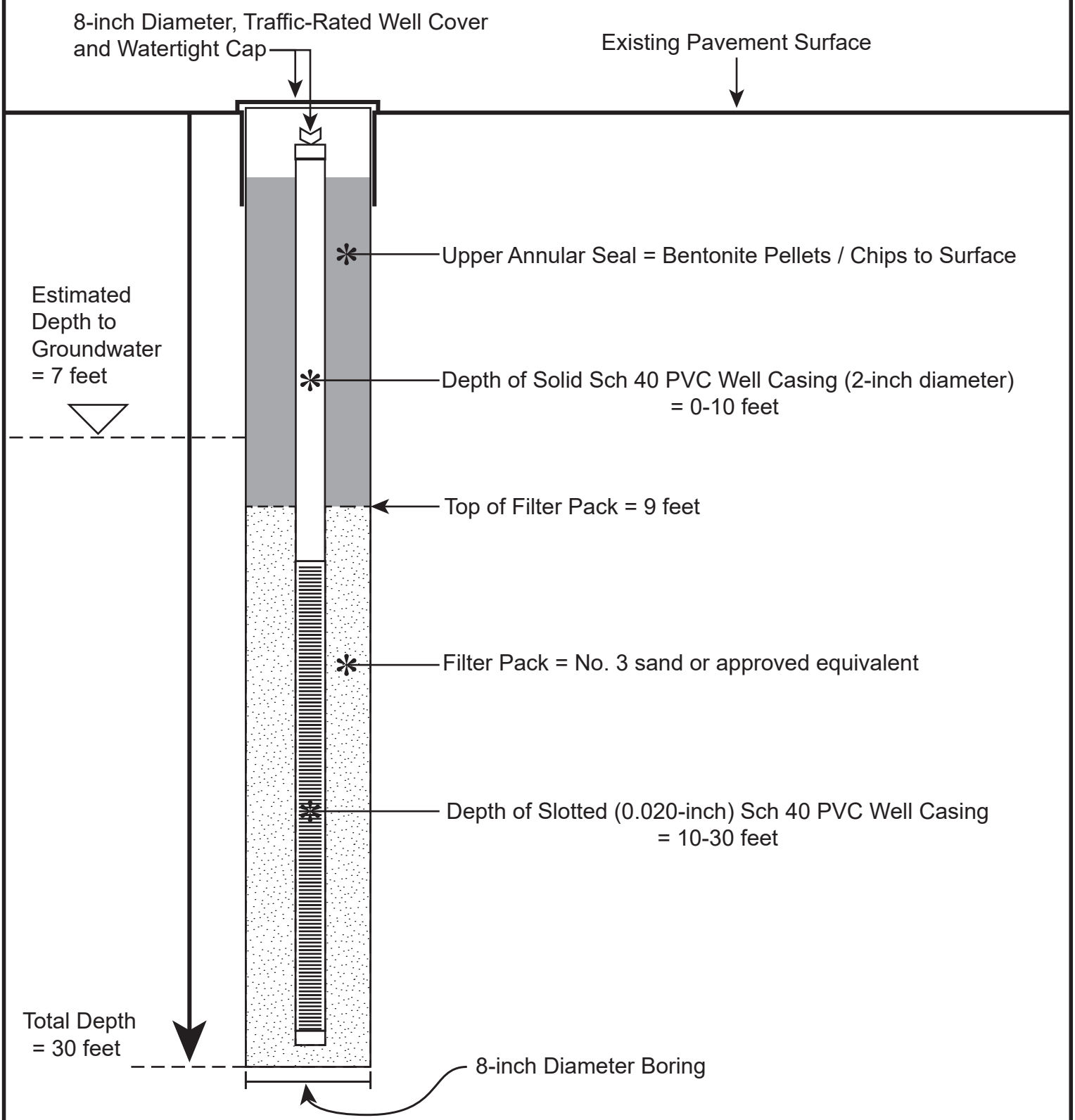
01	FPS/HSF (Acct/Bat#)	$
02	FPS Plan Check/Foods (PC#)	$
03	FPS Plan Check/Pools (PC#)	$
04	Food Vehicles Cat	$
	Decal No(s)	
05	FPS/Court Restitution/Judgment	$
	Name	
	Case#	
06	Hotels/Motels (Acct/Bat#)	$
07	Massage Parlor (Acct/Bat#)	$
08	Noise	$
09	Liquid Waste Hauler	$
10	Farm Labor Camp Registration	$
11	Aboveground Petroleum Storage Act	$
12	Hazardous Waste (Acct/Bat#)	$
13	CUPA Administrative Enforcement Orders	$
14	Hazardous Waste Restitution/Judgment	$
	Name	
	Case#	
15	Hazardous Waste Clean-up	$
16	Medical Waste/Body Art)	$
17	UST/HSF (Acct/Bat#)	$
18	UST Plan Check (PC#)	$
19	UST State Surcharge	$
20	UST Restitution/Judgment	$
	Name	
	Case#	
(21)	Wells (Const 5 Recon Destr)	$ 1009-
	Water Cath Init. Monit.)	
	Add. Monit. #Wells	
	Driller	
	Consultant	
22	Backflow/Cross Connection	$
	Client(s)	
23	Small Water Systems	$
24	CUPA - Base Fee	$
25	CUPA - CalArp	$
26	FOG- OC Sanitation District	$
27	Tierred Permitting	$
__	**OTHER**	$
__	**OTHER**	$
__	**OTHER**	$
__	**OTHER**	$ 1009-

PAID BY CHECK NO: 3901

APPENDIX G

AS-BUILT WELL DIAGRAMS

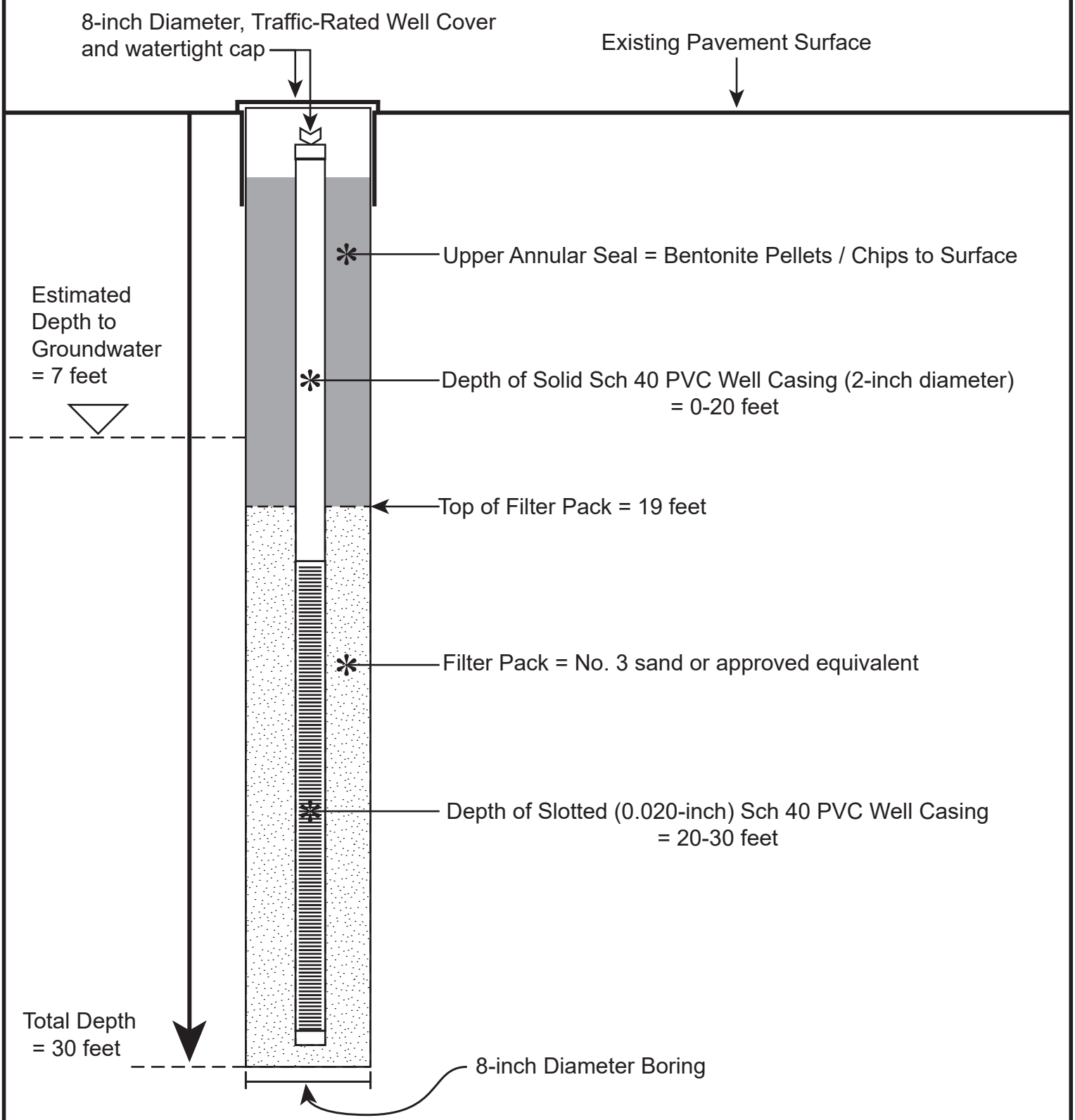
Notes: - Not to scale;
- Refer to notes for depths / dimensions;
- For illustrative purposes only
- Refer to Work Plan for more information.



As-Built Well Diagram (B-1 & B-5)	Project No. 1-1209	May 2022	G3SoilWorks
5665-5757 Plaza Drive	Cypress, CA	Detail 1	

350 Fischer Ave. Front
Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

Notes: - Not to scale;
- Refer to notes for depths / dimensions;
- For illustrative purposes only
- Refer to Work Plan for more information.



As-Built Well Diagram (B-2 & B-4)	Project No. 1-1209	May 2022	G3SoilWorks
5665-5757 Plaza Drive	Cypress, CA	Detail 2	

350 Fischer Ave. Front
Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

Notes: - Not to scale;
- Refer to notes for depths / dimensions;
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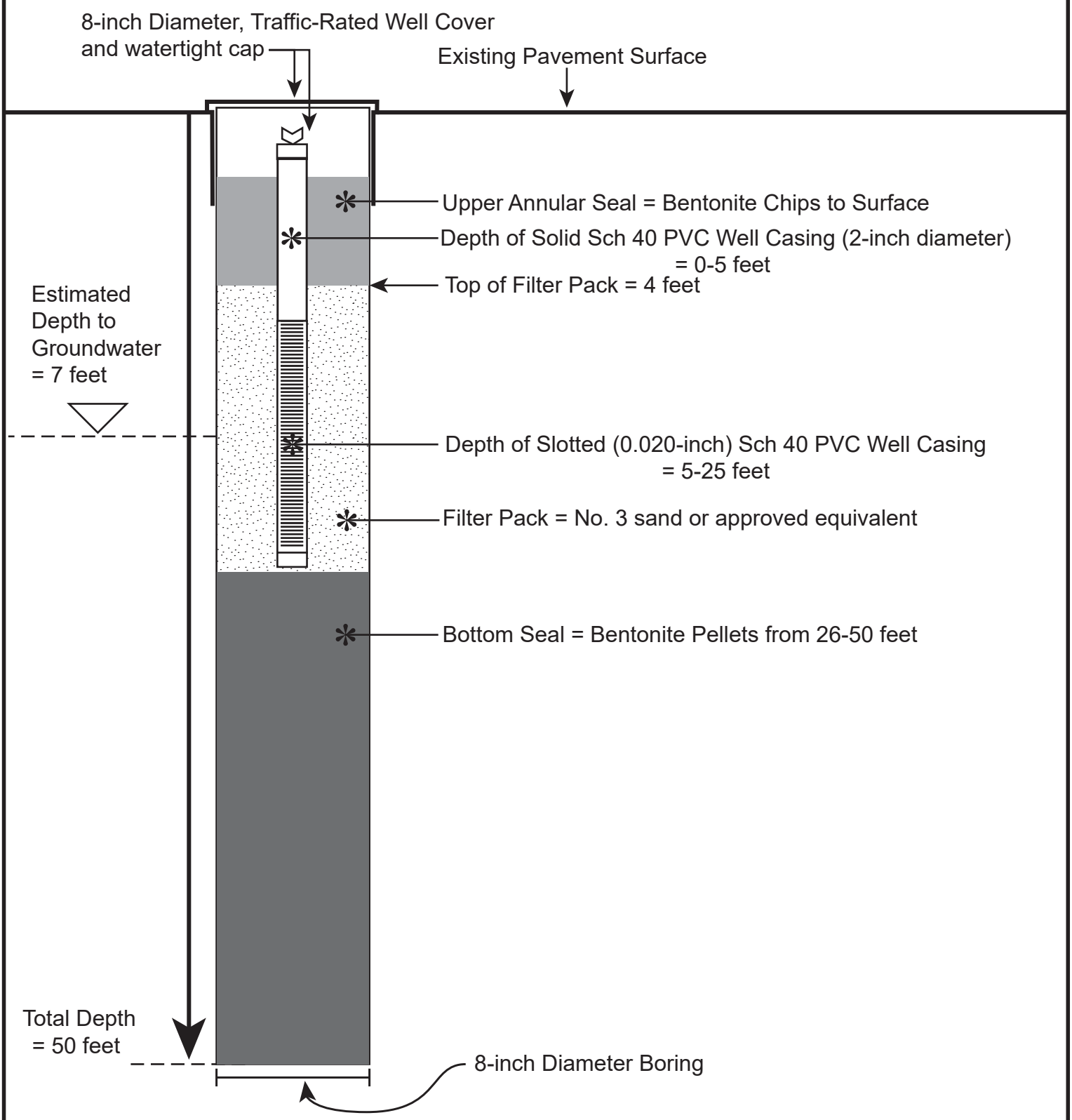
- Refer to Work Plan for more information.



As-Built Well Diagram (B-3)	Project No. 1-1209	Apr. 2022	G3SoilWorks
5665-5757 Plaza Drive	Cypress, CA	Detail 3	

350 Fischer Ave. Front
Costa Mesa, CA 92626
Phone: (714) 668 5600
www.G3SoilWorks.com

APPENDIX H

ASCE 7-16 SEISMIC DESIGN CRITERIA

Hazards by Location

Search Information

Address:	5757 Plaza Dr, Cypress, CA 90630, USA
Coordinates:	33.8054078, -118.0321031
Elevation:	35 ft
Timestamp:	2022-05-04T17:12:53.366Z
Hazard Type:	Seismic
Reference Document:	ASCE7-16
Risk Category:	II
Site Class:	D-default

Basic Parameters

Name	Value	Description
S_S	1.451	MCE_R ground motion (period=0.2s)
S_1	0.515	MCE_R ground motion (period=1.0s)
S_{MS}	1.742	Site-modified spectral acceleration value
S_{M1}	* null	Site-modified spectral acceleration value
S_{DS}	1.161	Numeric seismic design value at 0.2s SA
S_{D1}	* null	Numeric seismic design value at 1.0s SA

* See Section 11.4.8

Additional Information

Name	Value	Description
SDC	* null	Seismic design category
F_a	1.2	Site amplification factor at 0.2s
F_v	* null	Site amplification factor at 1.0s
CR_S	0.911	Coefficient of risk (0.2s)
CR_1	0.914	Coefficient of risk (1.0s)
PGA	0.622	MCE_G peak ground acceleration
F_{PGA}	1.2	Site amplification factor at PGA
PGA_M	0.746	Site modified peak ground acceleration

T_L	8	Long-period transition period (s)
SsRT	1.451	Probabilistic risk-targeted ground motion (0.2s)
SsUH	1.593	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
SsD	2.465	Factored deterministic acceleration value (0.2s)
S1RT	0.515	Probabilistic risk-targeted ground motion (1.0s)
S1UH	0.563	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
S1D	0.836	Factored deterministic acceleration value (1.0s)
PGAd	0.999	Factored deterministic acceleration value (PGA)

* See Section 11.4.8

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are provided by the U.S. Geological Survey Seismic Design Web Services.

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Per ASCE 7-16 section 11.4.8, a site response analysis is required for structures on Site Class F unless any of the exceptions listed in section 20.3.1 are applicable. Provided that the proposed structure has a fundamental period of vibration of equal to or less than 0.5s, the site class and corresponding values can be determined by the procedures outlined in section 11 in lieu of performing a site response analysis. The values for S_{M1}, S_{D1}, F_v, and SDC have been tabulated in accordance with ASCE 7-16 procedures and are included in the table below. The applicability of the exemption and the parameters provided below should be verified by the Structural Engineer for conformance to local laws and ordinances.

Parameter	Value	Description
S_{M1}	0.919	Site-modified spectral acceleration value
S_{D1}	0.613	Numeric seismic design value at 1.0s SA
F_v	1.785	Site amplification factor at 1.0s
SDC	D	Seismic design category

APPENDIX I

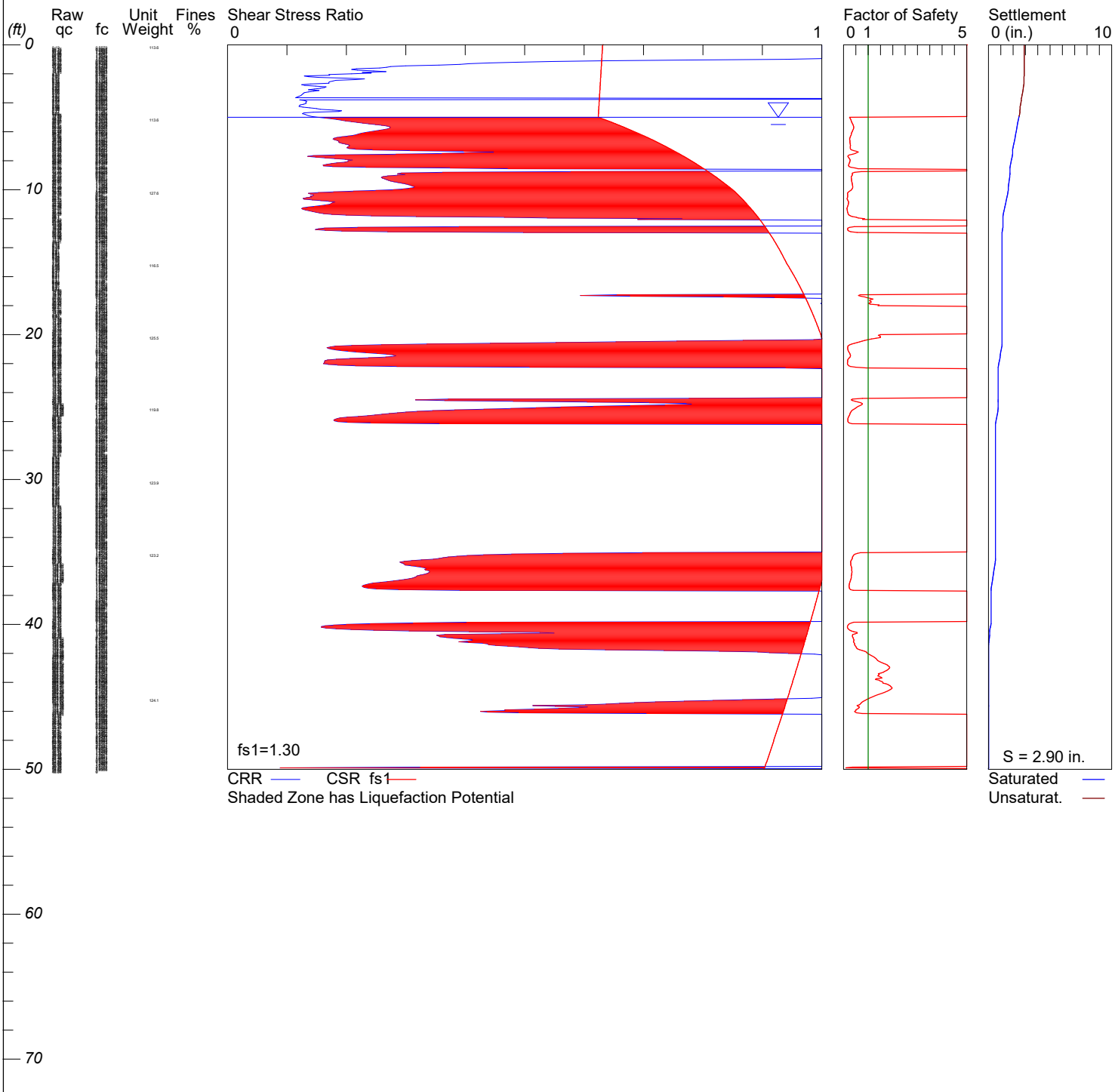
LIQUEFACTION ANALYSES

LIQUEFACTION ANALYSIS

Cypress

Hole No.=CPT-1 Water Depth=5 ft

Magnitude=7.5
Acceleration=.747g



LiquefyPro CivilTech Software USA www.civiltech.com

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LIQUEFACTION ANALYSIS SUMMARY

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Font: Courier New, Regular, Size 8 is recommended for this report.
Licensed to , 5/4/2022 12:33:40 PM

Input File Name: S:\PROJECTS\1000s GEOTECH PROJECTS\1-1209 Goodman Cypress\Calcs\Liquefaction\KYCPT1.liq
Title: Cypress
Subtitle: CPT-1

Surface Elev.=
Hole No.=CPT-1
Depth of Hole= 50.00 ft
Water Table during Earthquake= 5.00 ft
Water Table during In-Situ Testing= 7.00 ft
Max. Acceleration= 0.75 g
Earthquake Magnitude= 7.50

Input Data:
Surface Elev.=
Hole No.=CPT-1
Depth of Hole=50.00 ft
Water Table during Earthquake= 5.00 ft
Water Table during In-Situ Testing= 7.00 ft
Max. Acceleration=0.75 g
Earthquake Magnitude=7.50
No-Liquefiable Soils: CL, OL are Non-Liq. Soil

1. CPT Calculation Method: Modify Robertson*
2. Settlement Analysis Method: Ishihara / Yoshimine
3. Fines Correction for Liquefaction: Stark/Olson et al.*
4. Fine Correction for Settlement: During Liquefaction*
5. Settlement Calculation in: All zones*
9. User request factor of safety (apply to CSR) , User= 1.3
   Plot one CSR curve (fs1=User)
10. Use Curve Smoothing: Yes*
* Recommended Options

In-Situ Test Data:

Depth	qc	fs	Rf	gamma	Fines	D50
ft	atm	atm	pcf	%	mm	

0.00	0.19	0.56	293.63	113.60	0.00	0.50
0.07	55.17	0.76	1.38	113.60	0.00	0.50
0.15	84.29	0.97	1.15	113.60	0.00	0.50
0.20	85.12	1.08	1.27	113.60	0.00	0.50
0.28	81.97	1.25	1.53	113.60	0.00	0.50
0.34	77.34	1.38	1.78	113.60	0.00	0.50
0.41	72.98	1.41	1.93	113.60	0.00	0.50
0.47	69.08	1.40	2.03	113.60	0.00	0.50
0.53	64.82	1.35	2.09	113.60	0.00	0.50
0.60	61.11	1.30	2.13	113.60	0.00	0.50
0.66	55.27	1.22	2.20	113.60	0.00	0.50
0.72	51.93	1.17	2.25	113.60	0.00	0.50
0.81	45.16	1.08	2.38	113.60	0.00	0.50
0.87	41.08	0.98	2.39	113.60	0.00	0.50
0.94	37.74	0.94	2.50	113.60	0.00	0.50
1.00	35.70	0.91	2.56	113.60	0.00	0.50
1.06	32.55	0.82	2.53	113.60	0.00	0.50
1.12	28.65	0.75	2.62	113.60	0.00	0.50
1.18	25.59	0.71	2.78	113.60	0.00	0.50
1.27	21.88	0.65	2.95	113.60	0.00	0.50
1.33	17.80	0.58	3.24	113.60	0.00	0.50
1.39	16.69	0.52	3.14	113.60	0.00	0.50
1.46	16.69	0.47	2.80	113.60	0.00	0.50
1.52	14.74	0.41	2.75	113.60	0.00	0.50
1.58	12.89	0.36	2.79	113.60	0.00	0.50
1.66	12.80	0.31	2.42	113.60	0.00	0.50
1.72	11.13	0.27	2.38	113.60	0.00	0.50
1.78	9.55	0.23	2.38	113.60	0.00	0.50
1.84	8.53	0.20	2.30	113.60	0.00	0.50
1.90	8.16	0.17	2.07	113.60	0.00	0.50
1.97	7.60	0.16	2.06	113.60	0.00	0.50
2.04	6.95	0.11	1.61	113.60	0.00	0.50
2.12	6.77	0.11	1.56	113.60	0.00	0.50
2.19	6.58	0.11	1.63	113.60	0.00	0.50
2.25	6.31	0.11	1.79	113.60	0.00	0.50
2.31	5.75	0.11	1.99	113.60	0.00	0.50
2.37	5.38	0.10	1.94	113.60	0.00	0.50
2.43	5.38	0.09	1.73	113.60	0.00	0.50
2.50	5.29	0.09	1.66	113.60	0.00	0.50
2.58	5.29	0.08	1.59	113.60	0.00	0.50
2.65	5.29	0.08	1.59	113.60	0.00	0.50
2.70	5.66	0.08	1.47	113.60	0.00	0.50
2.77	6.03	0.08	1.35	113.60	0.00	0.50
2.83	5.84	0.09	1.48	113.60	0.00	0.50
2.89	5.66	0.09	1.57	113.60	0.00	0.50
2.97	5.66	0.09	1.52	113.60	0.00	0.50
3.04	5.66	0.08	1.45	113.60	0.00	0.50
3.10	5.66	0.08	1.35	113.60	0.00	0.50
3.16	5.29	0.07	1.36	113.60	0.00	0.50
3.22	5.10	0.07	1.29	113.60	0.00	0.50

3.29	4.82	0.06	1.28	113.60	0.00	0.50
3.35	4.82	0.06	1.28	113.60	0.00	0.50
3.43	4.82	0.06	1.20	113.60	0.00	0.50
3.50	4.82	0.06	1.29	113.60	0.00	0.50
3.56	4.73	0.07	1.47	113.60	0.00	0.50
3.62	4.64	0.08	1.63	113.60	0.00	0.50
3.68	4.54	0.08	1.80	113.60	0.00	0.50
3.75	4.54	0.09	1.89	113.60	0.00	0.50
3.81	5.10	0.09	1.71	113.60	0.00	0.50
3.87	5.56	0.08	1.53	113.60	0.00	0.50
3.95	5.56	0.08	1.38	113.60	0.00	0.50
4.02	5.66	0.07	1.28	113.60	0.00	0.50
4.08	5.66	0.07	1.24	113.60	0.00	0.50
4.14	5.38	0.07	1.31	113.60	0.00	0.50
4.20	5.38	0.07	1.32	113.60	0.00	0.50
4.27	5.38	0.09	1.59	113.60	0.00	0.50
4.35	6.21	0.11	1.76	113.60	0.00	0.50
4.42	6.77	0.13	1.89	113.60	0.00	0.50
4.48	6.95	0.14	2.07	113.60	0.00	0.50
4.54	8.62	0.16	1.87	113.60	0.00	0.50
4.60	10.94	0.19	1.72	113.60	0.00	0.50
4.66	13.35	0.22	1.66	113.60	0.00	0.50
4.72	17.53	0.27	1.54	113.60	0.00	0.50
4.81	24.67	0.33	1.34	113.60	0.00	0.50
4.87	29.77	0.33	1.10	113.60	0.00	0.50
4.93	34.22	0.31	0.90	113.60	0.00	0.50
5.00	38.85	0.32	0.83	113.60	0.00	0.50
5.06	42.66	0.35	0.83	113.60	0.00	0.50
5.13	45.62	0.38	0.84	113.60	0.00	0.50
5.19	47.20	0.42	0.88	113.60	0.00	0.50
5.25	48.40	0.45	0.93	113.60	0.00	0.50
5.34	51.74	0.48	0.94	113.60	0.00	0.50
5.39	53.50	0.51	0.96	113.60	0.00	0.50
5.46	55.36	0.56	1.00	113.60	0.00	0.50
5.52	56.84	0.60	1.06	113.60	0.00	0.50
5.59	57.95	0.65	1.12	113.60	0.00	0.50
5.65	58.23	0.69	1.18	113.60	0.00	0.50
5.73	57.68	0.73	1.26	113.60	0.00	0.50
5.79	56.47	0.75	1.32	113.60	0.00	0.50
5.85	54.15	0.77	1.42	113.60	0.00	0.50
5.91	51.37	0.78	1.52	113.60	0.00	0.50
5.98	48.40	0.79	1.64	113.60	0.00	0.50
6.04	45.62	0.79	1.73	113.60	0.00	0.50
6.12	41.82	0.78	1.86	113.60	0.00	0.50
6.19	38.95	0.78	1.99	113.60	0.00	0.50
6.25	38.76	0.75	1.94	113.60	0.00	0.50
6.32	38.76	0.70	1.81	113.60	0.00	0.50
6.38	38.58	0.65	1.67	113.60	0.00	0.50
6.44	41.82	0.59	1.40	113.60	0.00	0.50
6.50	45.44	0.53	1.16	113.60	0.00	0.50

6.57	49.15	0.49	1.00	113.60	0.00	0.50
6.63	52.67	0.47	0.89	113.60	0.00	0.50
6.69	54.15	0.44	0.81	113.60	0.00	0.50
6.77	57.12	0.40	0.69	113.60	0.00	0.50
6.83	58.88	0.41	0.70	113.60	0.00	0.50
6.90	59.44	0.45	0.76	113.60	0.00	0.50
6.96	57.95	0.52	0.90	113.60	0.00	0.50
7.03	54.43	0.59	1.08	113.60	0.00	0.50
7.09	49.05	0.67	1.37	113.60	0.00	0.50
7.15	42.75	0.76	1.78	113.60	0.00	0.50
7.24	34.87	0.85	2.45	113.60	0.00	0.50
7.30	29.21	0.86	2.94	113.60	0.00	0.50
7.37	24.85	0.82	3.30	113.60	0.00	0.50
7.42	24.85	0.79	3.18	113.60	0.00	0.50
7.51	24.85	0.75	3.01	113.60	0.00	0.50
7.57	26.71	0.73	2.72	113.60	0.00	0.50
7.64	32.45	0.51	1.57	113.60	0.00	0.50
7.70	38.85	0.37	0.95	113.60	0.00	0.50
7.77	44.88	0.44	0.98	113.60	0.00	0.50
7.83	49.89	0.52	1.04	113.60	0.00	0.50
7.90	52.85	0.63	1.20	113.60	0.00	0.50
7.97	53.50	0.72	1.35	113.60	0.00	0.50
8.01	45.71	0.75	1.64	113.60	0.00	0.50
8.07	51.09	0.71	1.39	113.60	0.00	0.50
8.17	48.40	0.58	1.21	113.60	0.00	0.50
8.23	44.05	0.58	1.32	113.60	0.00	0.50
8.30	37.56	0.58	1.55	113.60	0.00	0.50
8.33	33.85	0.58	1.71	113.60	0.00	0.50
8.40	27.17	0.58	2.12	113.60	0.00	0.50
8.49	20.77	0.60	2.90	113.60	0.00	0.50
8.56	17.06	0.63	3.70	113.60	0.00	0.50
8.62	14.65	0.69	4.69	113.60	0.00	0.50
8.68	16.69	0.76	4.58	113.60	0.00	0.50
8.75	23.00	0.82	3.55	113.60	0.00	0.50
8.81	28.19	0.83	2.95	113.60	0.00	0.50
8.88	30.69	0.86	2.80	113.60	0.00	0.50
8.94	31.81	0.93	2.91	113.60	0.00	0.50
9.01	35.05	0.98	2.80	113.60	0.00	0.50
9.08	39.97	1.02	2.55	113.60	0.00	0.50
9.14	43.03	1.03	2.40	113.60	0.00	0.50
9.21	44.69	1.05	2.35	113.60	0.00	0.50
9.27	45.90	1.07	2.34	113.60	0.00	0.50
9.34	46.92	1.09	2.33	113.60	0.00	0.50
9.40	48.77	1.11	2.28	113.60	0.00	0.50
9.47	51.00	1.15	2.25	113.60	0.00	0.50
9.53	52.95	1.18	2.22	113.60	0.00	0.50
9.60	54.25	1.21	2.23	113.60	0.00	0.50
9.66	53.69	1.24	2.31	113.60	0.00	0.50
9.73	51.46	1.26	2.45	113.60	0.00	0.50
9.79	47.85	1.26	2.64	113.60	0.00	0.50

9.86	43.40	1.21	2.79	113.60	0.00	0.50
9.92	38.11	1.09	2.87	113.60	0.00	0.50
9.99	33.38	0.95	2.83	113.60	0.00	0.50
10.05	29.58	0.78	2.63	127.60	0.00	0.50
10.12	27.08	0.62	2.29	127.60	0.00	0.50
10.18	25.13	0.49	1.95	127.60	0.00	0.50
10.25	24.20	0.40	1.67	127.60	0.00	0.50
10.32	22.90	0.40	1.74	127.60	0.00	0.50
10.38	22.44	0.41	1.82	127.60	0.00	0.50
10.44	23.00	0.39	1.71	127.60	0.00	0.50
10.51	23.55	0.41	1.75	127.60	0.00	0.50
10.57	25.13	0.39	1.55	127.60	0.00	0.50
10.64	28.93	0.40	1.39	127.60	0.00	0.50
10.71	34.96	0.53	1.51	127.60	0.00	0.50
10.78	42.38	0.65	1.53	127.60	0.00	0.50
10.84	48.22	0.71	1.46	127.60	0.00	0.50
10.92	44.42	0.70	1.57	127.60	0.00	0.50
10.99	47.38	0.67	1.41	127.60	0.00	0.50
11.06	43.58	0.64	1.46	127.60	0.00	0.50
11.12	39.87	0.58	1.46	127.60	0.00	0.50
11.18	37.00	0.49	1.32	127.60	0.00	0.50
11.25	34.77	0.41	1.19	127.60	0.00	0.50
11.31	32.92	0.40	1.22	127.60	0.00	0.50
11.38	31.43	0.43	1.38	127.60	0.00	0.50
11.44	30.14	0.47	1.56	127.60	0.00	0.50
11.50	29.02	0.49	1.70	127.60	0.00	0.50
11.57	28.10	0.52	1.83	127.60	0.00	0.50
11.64	28.10	0.54	1.93	127.60	0.00	0.50
11.70	28.10	0.59	2.10	127.60	0.00	0.50
11.77	28.10	0.66	2.36	127.60	0.00	0.50
11.83	27.63	0.75	2.71	127.60	0.00	0.50
11.90	26.52	0.82	3.11	127.60	0.00	0.50
11.96	25.41	0.87	3.44	127.60	0.00	0.50
12.02	23.65	0.92	3.90	127.60	0.00	0.50
12.09	23.09	0.99	4.29	127.60	0.00	0.50
12.15	21.23	1.03	4.85	127.60	0.00	0.50
12.22	19.19	0.96	4.99	127.60	0.00	0.50
12.28	16.69	0.91	5.45	127.60	0.00	0.50
12.34	16.78	0.92	5.50	127.60	0.00	0.50
12.41	16.78	0.83	4.95	127.60	0.00	0.50
12.48	16.88	0.69	4.12	127.60	0.00	0.50
12.54	18.64	0.58	3.12	127.60	0.00	0.50
12.61	23.27	0.50	2.14	127.60	0.00	0.50
12.68	31.81	0.60	1.90	127.60	0.00	0.50
12.74	36.26	0.57	1.57	127.60	0.00	0.50
12.80	33.75	0.64	1.91	127.60	0.00	0.50
12.86	28.65	0.67	2.34	127.60	0.00	0.50
12.96	20.68	0.64	3.08	127.60	0.00	0.50
12.99	18.92	0.62	3.26	127.60	0.00	0.50
13.09	14.56	0.56	3.83	127.60	0.00	0.50

13.12	13.26	0.53	4.03	127.60	0.00	0.50
13.19	11.78	0.48	4.07	127.60	0.00	0.50
13.28	10.57	0.35	3.28	127.60	0.00	0.50
13.35	10.20	0.25	2.45	127.60	0.00	0.50
13.41	10.11	0.20	1.97	127.60	0.00	0.50
13.47	9.83	0.18	1.86	127.60	0.00	0.50
13.54	9.74	0.17	1.77	127.60	0.00	0.50
13.60	9.74	0.17	1.77	127.60	0.00	0.50
13.67	9.74	0.17	1.77	127.60	0.00	0.50
13.74	9.74	0.17	1.76	127.60	0.00	0.50
13.80	9.46	0.17	1.82	127.60	0.00	0.50
13.86	9.37	0.17	1.84	127.60	0.00	0.50
13.93	9.27	0.17	1.85	127.60	0.00	0.50
14.00	8.90	0.17	1.87	127.60	0.00	0.50
14.07	8.81	0.17	1.90	127.60	0.00	0.50
14.11	8.81	0.17	1.94	127.60	0.00	0.50
14.19	8.81	0.18	2.01	127.60	0.00	0.50
14.26	8.81	0.18	2.09	127.60	0.00	0.50
14.32	8.62	0.18	2.12	127.60	0.00	0.50
14.39	8.44	0.17	2.05	127.60	0.00	0.50
14.46	8.25	0.17	2.04	127.60	0.00	0.50
14.52	8.07	0.17	2.09	127.60	0.00	0.50
14.59	7.88	0.17	2.18	127.60	0.00	0.50
14.65	7.88	0.17	2.15	127.60	0.00	0.50
14.72	7.97	0.16	2.07	127.60	0.00	0.50
14.78	7.79	0.16	2.09	127.60	0.00	0.50
14.85	7.79	0.16	2.00	127.60	0.00	0.50
14.91	7.51	0.15	1.97	127.60	0.00	0.50
14.98	7.05	0.14	2.02	127.60	0.00	0.50
15.04	6.95	0.14	1.99	116.50	0.00	0.50
15.11	6.68	0.14	2.05	116.50	0.00	0.50
15.17	6.49	0.13	2.07	116.50	0.00	0.50
15.23	6.49	0.13	1.97	116.50	0.00	0.50
15.30	6.49	0.12	1.80	116.50	0.00	0.50
15.36	6.49	0.11	1.65	116.50	0.00	0.50
15.43	6.40	0.10	1.61	116.50	0.00	0.50
15.50	6.31	0.10	1.64	116.50	0.00	0.50
15.56	6.21	0.10	1.66	116.50	0.00	0.50
15.63	6.21	0.10	1.67	116.50	0.00	0.50
15.69	6.21	0.11	1.72	116.50	0.00	0.50
15.75	6.21	0.11	1.73	116.50	0.00	0.50
15.82	6.21	0.11	1.73	116.50	0.00	0.50
15.88	6.21	0.11	1.77	116.50	0.00	0.50
15.97	6.21	0.12	1.87	116.50	0.00	0.50
16.04	6.31	0.12	1.91	116.50	0.00	0.50
16.11	6.40	0.13	1.95	116.50	0.00	0.50
16.17	6.49	0.13	1.96	116.50	0.00	0.50
16.21	6.68	0.13	1.90	116.50	0.00	0.50
16.27	6.86	0.13	1.84	116.50	0.00	0.50
16.34	7.51	0.12	1.63	116.50	0.00	0.50

16.43	8.35	0.13	1.50	116.50	0.00	0.50
16.49	8.90	0.14	1.54	116.50	0.00	0.50
16.56	8.81	0.15	1.71	116.50	0.00	0.50
16.62	8.44	0.18	2.19	116.50	0.00	0.50
16.69	8.44	0.28	3.28	116.50	0.00	0.50
16.75	10.48	0.35	3.32	116.50	0.00	0.50
16.82	14.93	0.34	2.30	116.50	0.00	0.50
16.88	17.53	0.38	2.17	116.50	0.00	0.50
16.95	16.88	0.47	2.81	116.50	0.00	0.50
17.01	15.30	0.61	4.00	116.50	0.00	0.50
17.08	14.74	0.75	5.07	116.50	0.00	0.50
17.13	15.11	0.83	5.52	116.50	0.00	0.50
17.19	25.96	0.94	3.63	116.50	0.00	0.50
17.26	30.60	1.01	3.32	116.50	0.00	0.50
17.32	31.99	1.08	3.39	116.50	0.00	0.50
17.42	32.92	1.25	3.79	116.50	0.00	0.50
17.48	34.03	1.39	4.10	116.50	0.00	0.50
17.55	36.91	1.56	4.22	116.50	0.00	0.50
17.61	40.43	1.71	4.22	116.50	0.00	0.50
17.68	42.47	1.84	4.34	116.50	0.00	0.50
17.74	43.95	1.95	4.45	116.50	0.00	0.50
17.80	45.71	2.03	4.43	116.50	0.00	0.50
17.87	46.83	2.06	4.40	116.50	0.00	0.50
17.93	44.60	2.00	4.49	116.50	0.00	0.50
18.00	37.00	1.81	4.89	116.50	0.00	0.50
18.07	26.52	1.51	5.68	116.50	0.00	0.50
18.13	19.66	1.22	6.20	116.50	0.00	0.50
18.20	15.76	0.97	6.17	116.50	0.00	0.50
18.26	12.98	0.71	5.50	116.50	0.00	0.50
18.33	11.03	0.47	4.28	116.50	0.00	0.50
18.40	10.11	0.31	3.05	116.50	0.00	0.50
18.46	9.83	0.28	2.81	116.50	0.00	0.50
18.52	9.83	0.35	3.60	116.50	0.00	0.50
18.59	9.92	0.43	4.37	116.50	0.00	0.50
18.65	10.48	0.46	4.42	116.50	0.00	0.50
18.72	11.13	0.46	4.14	116.50	0.00	0.50
18.78	12.05	0.46	3.79	116.50	0.00	0.50
18.84	12.15	0.45	3.74	116.50	0.00	0.50
18.91	11.78	0.47	3.97	116.50	0.00	0.50
18.98	11.87	0.47	3.98	116.50	0.00	0.50
19.04	12.61	0.47	3.74	116.50	0.00	0.50
19.11	13.17	0.46	3.52	116.50	0.00	0.50
19.17	13.82	0.44	3.19	116.50	0.00	0.50
19.24	14.47	0.49	3.38	116.50	0.00	0.50
19.31	15.11	0.59	3.93	116.50	0.00	0.50
19.37	16.23	0.73	4.49	116.50	0.00	0.50
19.44	18.08	0.89	4.92	116.50	0.00	0.50
19.50	19.19	1.09	5.68	116.50	0.00	0.50
19.57	20.68	1.30	6.29	116.50	0.00	0.50
19.63	23.00	1.35	5.87	116.50	0.00	0.50

19.70	25.87	1.28	4.96	116.50	0.00	0.50
19.76	28.19	1.43	5.07	116.50	0.00	0.50
19.83	30.97	1.57	5.06	116.50	0.00	0.50
19.90	34.40	1.70	4.95	116.50	0.00	0.50
19.96	37.18	1.79	4.82	116.50	0.00	0.50
20.02	41.08	1.85	4.51	125.50	0.00	0.50
20.09	42.28	1.91	4.52	125.50	0.00	0.50
20.16	42.38	1.95	4.59	125.50	0.00	0.50
20.22	42.56	1.92	4.52	125.50	0.00	0.50
20.28	42.56	1.86	4.36	125.50	0.00	0.50
20.35	42.38	1.78	4.19	125.50	0.00	0.50
20.42	42.19	1.70	4.02	125.50	0.00	0.50
20.48	42.28	1.63	3.85	125.50	0.00	0.50
20.54	42.84	1.57	3.68	125.50	0.00	0.50
20.61	44.60	1.49	3.35	125.50	0.00	0.50
20.67	47.11	1.34	2.85	125.50	0.00	0.50
20.77	51.46	1.02	1.98	125.50	0.00	0.50
20.80	52.58	0.91	1.74	125.50	0.00	0.50
20.90	55.08	0.82	1.48	125.50	0.00	0.50
20.96	56.01	0.84	1.49	125.50	0.00	0.50
21.03	56.01	0.89	1.60	125.50	0.00	0.50
21.09	55.08	0.98	1.78	125.50	0.00	0.50
21.16	54.06	1.08	2.00	125.50	0.00	0.50
21.22	55.03	1.18	2.14	125.50	0.00	0.50
21.29	53.78	1.29	2.40	125.50	0.00	0.50
21.35	54.99	1.39	2.53	125.50	0.00	0.50
21.41	56.38	1.45	2.58	125.50	0.00	0.50
21.48	57.86	1.48	2.57	125.50	0.00	0.50
21.55	59.35	1.43	2.41	125.50	0.00	0.50
21.61	61.48	1.25	2.04	125.50	0.00	0.50
21.68	63.33	0.96	1.52	125.50	0.00	0.50
21.75	64.63	0.75	1.16	125.50	0.00	0.50
21.81	64.82	0.69	1.06	125.50	0.00	0.50
21.87	64.26	0.71	1.10	125.50	0.00	0.50
21.94	62.31	0.73	1.17	125.50	0.00	0.50
22.01	58.79	0.75	1.28	125.50	0.00	0.50
22.07	54.06	0.91	1.68	125.50	0.00	0.50
22.14	48.40	1.06	2.19	125.50	0.00	0.50
22.20	43.03	1.22	2.83	125.50	0.00	0.50
22.27	37.00	1.35	3.64	125.50	0.00	0.50
22.34	34.12	1.39	4.07	125.50	0.00	0.50
22.40	31.71	1.36	4.29	125.50	0.00	0.50
22.47	29.02	1.30	4.48	125.50	0.00	0.50
22.53	25.69	1.21	4.72	125.50	0.00	0.50
22.60	21.42	1.11	5.18	125.50	0.00	0.50
22.67	17.80	1.00	5.63	125.50	0.00	0.50
22.73	15.86	0.90	5.69	125.50	0.00	0.50
22.80	14.74	0.81	5.52	125.50	0.00	0.50
22.86	14.93	0.72	4.84	125.50	0.00	0.50
22.93	15.39	0.65	4.23	125.50	0.00	0.50

22.99	15.30	0.61	3.96	125.50	0.00	0.50
23.06	14.56	0.55	3.77	125.50	0.00	0.50
23.12	13.91	0.48	3.43	125.50	0.00	0.50
23.19	13.17	0.43	3.28	125.50	0.00	0.50
23.25	12.80	0.41	3.17	125.50	0.00	0.50
23.31	13.12	0.39	2.99	125.50	0.00	0.50
23.38	12.33	0.37	3.03	125.50	0.00	0.50
23.44	13.07	0.35	2.71	125.50	0.00	0.50
23.51	13.54	0.33	2.43	125.50	0.00	0.50
23.57	13.35	0.29	2.16	125.50	0.00	0.50
23.64	12.89	0.24	1.86	125.50	0.00	0.50
23.70	12.24	0.22	1.81	125.50	0.00	0.50
23.76	11.78	0.22	1.87	125.50	0.00	0.50
23.82	11.13	0.22	1.97	125.50	0.00	0.50
23.89	10.76	0.25	2.28	125.50	0.00	0.50
23.95	10.76	0.32	3.01	125.50	0.00	0.50
24.02	10.85	0.42	3.89	125.50	0.00	0.50
24.08	12.24	0.55	4.47	125.50	0.00	0.50
24.15	15.76	0.74	4.69	125.50	0.00	0.50
24.22	20.96	0.98	4.68	125.50	0.00	0.50
24.28	26.89	1.19	4.44	125.50	0.00	0.50
24.35	33.38	1.39	4.17	125.50	0.00	0.50
24.41	42.19	1.56	3.69	125.50	0.00	0.50
24.48	58.98	1.71	2.89	125.50	0.00	0.50
24.54	90.13	1.88	2.09	125.50	0.00	0.50
24.61	125.92	2.09	1.66	125.50	0.00	0.50
24.68	149.94	2.27	1.51	125.50	0.00	0.50
24.74	160.33	2.37	1.48	125.50	0.00	0.50
24.81	162.83	2.34	1.44	125.50	0.00	0.50
24.88	157.82	2.16	1.37	125.50	0.00	0.50
24.94	150.68	1.98	1.31	125.50	0.00	0.50
25.00	142.24	1.88	1.32	119.80	0.00	0.50
25.08	133.34	1.82	1.37	119.80	0.00	0.50
25.14	126.02	1.68	1.33	119.80	0.00	0.50
25.20	119.53	1.46	1.22	119.80	0.00	0.50
25.26	114.06	1.28	1.13	119.80	0.00	0.50
25.33	108.58	1.21	1.11	119.80	0.00	0.50
25.39	104.50	1.17	1.12	119.80	0.00	0.50
25.46	99.87	1.14	1.14	119.80	0.00	0.50
25.53	95.79	1.10	1.14	119.80	0.00	0.50
25.59	91.80	1.06	1.16	119.80	0.00	0.50
25.66	88.09	0.95	1.08	119.80	0.00	0.50
25.72	84.20	0.77	0.92	119.80	0.00	0.50
25.82	76.96	0.82	1.07	119.80	0.00	0.50
25.86	73.63	0.86	1.17	119.80	0.00	0.50
25.92	65.47	0.95	1.45	119.80	0.00	0.50
25.99	56.75	1.03	1.82	119.80	0.00	0.50
26.06	43.40	1.02	2.36	119.80	0.00	0.50
26.13	36.44	0.98	2.69	119.80	0.00	0.50
26.19	29.86	0.93	3.12	119.80	0.00	0.50

26.26	24.67	0.88	3.57	119.80	0.00	0.50
26.32	19.84	0.79	4.00	119.80	0.00	0.50
26.39	16.60	0.72	4.35	119.80	0.00	0.50
26.45	14.09	0.65	4.63	119.80	0.00	0.50
26.52	12.15	0.54	4.45	119.80	0.00	0.50
26.59	11.31	0.43	3.78	119.80	0.00	0.50
26.65	11.13	0.37	3.33	119.80	0.00	0.50
26.71	10.85	0.34	3.11	119.80	0.00	0.50
26.78	10.76	0.31	2.89	119.80	0.00	0.50
26.85	10.76	0.29	2.72	119.80	0.00	0.50
26.91	10.66	0.28	2.61	119.80	0.00	0.50
26.98	10.66	0.27	2.50	119.80	0.00	0.50
27.04	10.39	0.26	2.54	119.80	0.00	0.50
27.11	10.39	0.27	2.58	119.80	0.00	0.50
27.17	10.39	0.27	2.58	119.80	0.00	0.50
27.23	10.48	0.26	2.46	119.80	0.00	0.50
27.30	10.57	0.25	2.35	119.80	0.00	0.50
27.36	10.85	0.25	2.32	119.80	0.00	0.50
27.46	10.85	0.25	2.34	119.80	0.00	0.50
27.52	10.66	0.26	2.39	119.80	0.00	0.50
27.59	10.39	0.26	2.46	119.80	0.00	0.50
27.65	10.29	0.26	2.54	119.80	0.00	0.50
27.72	10.29	0.27	2.62	119.80	0.00	0.50
27.78	10.29	0.28	2.72	119.80	0.00	0.50
27.85	10.29	0.29	2.81	119.80	0.00	0.50
27.91	10.29	0.29	2.79	119.80	0.00	0.50
27.98	10.20	0.28	2.75	119.80	0.00	0.50
28.04	10.20	0.27	2.69	119.80	0.00	0.50
28.11	10.11	0.27	2.66	119.80	0.00	0.50
28.17	10.01	0.26	2.63	119.80	0.00	0.50
28.23	9.83	0.26	2.63	119.80	0.00	0.50
28.30	9.74	0.25	2.61	119.80	0.00	0.50
28.36	9.74	0.25	2.53	119.80	0.00	0.50
28.43	9.55	0.24	2.52	119.80	0.00	0.50
28.49	9.37	0.23	2.48	119.80	0.00	0.50
28.56	9.09	0.23	2.51	119.80	0.00	0.50
28.62	8.99	0.23	2.55	119.80	0.00	0.50
28.69	8.99	0.23	2.57	119.80	0.00	0.50
28.75	9.18	0.23	2.54	119.80	0.00	0.50
28.82	9.46	0.23	2.48	119.80	0.00	0.50
28.88	9.64	0.24	2.47	119.80	0.00	0.50
28.95	9.46	0.25	2.62	119.80	0.00	0.50
29.01	8.53	0.26	3.00	119.80	0.00	0.50
29.07	9.27	0.26	2.76	119.80	0.00	0.50
29.14	9.18	0.24	2.64	119.80	0.00	0.50
29.20	9.09	0.23	2.55	119.80	0.00	0.50
29.26	8.90	0.23	2.60	119.80	0.00	0.50
29.33	8.53	0.23	2.71	119.80	0.00	0.50
29.40	8.44	0.23	2.73	119.80	0.00	0.50
29.46	8.44	0.24	2.87	119.80	0.00	0.50

29.53	8.62	0.24	2.76	119.80	0.00	0.50
29.62	8.90	0.23	2.56	119.80	0.00	0.50
29.69	9.27	0.23	2.48	119.80	0.00	0.50
29.75	9.27	0.24	2.63	119.80	0.00	0.50
29.82	9.27	0.27	2.87	119.80	0.00	0.50
29.88	9.27	0.28	3.05	119.80	0.00	0.50
29.94	9.27	0.28	3.06	119.80	0.00	0.50
30.01	9.37	0.27	2.92	123.90	0.00	0.50
30.08	9.27	0.27	2.93	123.90	0.00	0.50
30.14	8.90	0.25	2.84	123.90	0.00	0.50
30.20	8.35	0.22	2.59	123.90	0.00	0.50
30.27	7.70	0.20	2.55	123.90	0.00	0.50
30.34	7.14	0.19	2.65	123.90	0.00	0.50
30.40	6.58	0.19	2.81	123.90	0.00	0.50
30.47	6.12	0.18	2.97	123.90	0.00	0.50
30.53	6.63	0.18	2.68	123.90	0.00	0.50
30.60	6.68	0.17	2.56	123.90	0.00	0.50
30.66	7.88	0.16	2.09	123.90	0.00	0.50
30.73	8.16	0.16	1.95	123.90	0.00	0.50
30.80	8.25	0.16	1.97	123.90	0.00	0.50
30.86	8.35	0.17	2.03	123.90	0.00	0.50
30.93	8.81	0.18	2.04	123.90	0.00	0.50
30.99	9.27	0.19	2.01	123.90	0.00	0.50
31.06	9.46	0.19	1.97	123.90	0.00	0.50
31.12	9.27	0.19	2.01	123.90	0.00	0.50
31.19	9.27	0.19	2.01	123.90	0.00	0.50
31.25	9.27	0.19	2.03	123.90	0.00	0.50
31.32	9.27	0.20	2.21	123.90	0.00	0.50
31.38	8.99	0.23	2.58	123.90	0.00	0.50
31.45	8.81	0.26	2.92	123.90	0.00	0.50
31.52	9.09	0.29	3.14	123.90	0.00	0.50
31.58	9.74	0.32	3.25	123.90	0.00	0.50
31.64	10.01	0.35	3.45	123.90	0.00	0.50
31.70	11.41	0.35	3.10	123.90	0.00	0.50
31.77	11.78	0.30	2.56	123.90	0.00	0.50
31.84	12.33	0.23	1.86	123.90	0.00	0.50
31.91	12.70	0.34	2.64	123.90	0.00	0.50
31.97	13.35	0.46	3.42	123.90	0.00	0.50
32.03	14.74	0.58	3.93	123.90	0.00	0.50
32.10	17.25	0.68	3.94	123.90	0.00	0.50
32.18	17.34	0.76	4.37	123.90	0.00	0.50
32.24	18.08	0.80	4.44	123.90	0.00	0.50
32.31	17.43	0.84	4.80	123.90	0.00	0.50
32.37	15.58	0.85	5.45	123.90	0.00	0.50
32.43	14.09	0.81	5.78	123.90	0.00	0.50
32.49	13.17	0.77	5.82	123.90	0.00	0.50
32.56	12.43	0.72	5.79	123.90	0.00	0.50
32.62	12.61	0.63	5.00	123.90	0.00	0.50
32.68	12.43	0.51	4.14	123.90	0.00	0.50
32.75	12.24	0.40	3.24	123.90	0.00	0.50

32.81	11.87	0.31	2.57	123.90	0.00	0.50
32.88	11.22	0.26	2.30	123.90	0.00	0.50
32.95	10.85	0.24	2.17	123.90	0.00	0.50
33.01	10.39	0.23	2.22	123.90	0.00	0.50
33.08	10.48	0.23	2.20	123.90	0.00	0.50
33.15	10.48	0.24	2.25	123.90	0.00	0.50
33.21	10.76	0.24	2.18	123.90	0.00	0.50
33.28	10.48	0.22	2.11	123.90	0.00	0.50
33.34	10.48	0.22	2.05	123.90	0.00	0.50
33.40	10.85	0.22	2.05	123.90	0.00	0.50
33.47	11.13	0.22	2.00	123.90	0.00	0.50
33.54	11.22	0.21	1.86	123.90	0.00	0.50
33.60	10.57	0.24	2.30	123.90	0.00	0.50
33.67	10.29	0.25	2.46	123.90	0.00	0.50
33.73	10.39	0.27	2.58	123.90	0.00	0.50
33.80	10.48	0.28	2.68	123.90	0.00	0.50
33.87	10.25	0.29	2.79	123.90	0.00	0.50
33.93	10.11	0.29	2.83	123.90	0.00	0.50
34.00	10.66	0.29	2.73	123.90	0.00	0.50
34.07	10.57	0.31	2.90	123.90	0.00	0.50
34.13	10.85	0.31	2.89	123.90	0.00	0.50
34.20	11.13	0.32	2.88	123.90	0.00	0.50
34.26	11.50	0.36	3.13	123.90	0.00	0.50
34.32	12.05	0.46	3.80	123.90	0.00	0.50
34.39	12.52	0.61	4.84	123.90	0.00	0.50
34.45	14.00	0.78	5.58	123.90	0.00	0.50
34.52	16.78	0.94	5.62	123.90	0.00	0.50
34.58	20.96	1.04	4.98	123.90	0.00	0.50
34.65	25.96	1.12	4.32	123.90	0.00	0.50
34.71	31.34	1.25	3.99	123.90	0.00	0.50
34.78	36.72	1.40	3.82	123.90	0.00	0.50
34.85	39.87	1.52	3.82	123.90	0.00	0.50
34.94	43.67	1.68	3.84	123.90	0.00	0.50
35.01	47.57	1.82	3.82	123.90	0.00	0.50
35.04	50.26	1.90	3.77	123.20	0.00	0.50
35.11	55.73	2.01	3.61	123.20	0.00	0.50
35.17	61.02	2.08	3.40	123.20	0.00	0.50
35.24	64.72	2.10	3.25	123.20	0.00	0.50
35.31	68.16	2.13	3.12	123.20	0.00	0.50
35.37	73.16	2.18	2.98	123.20	0.00	0.50
35.44	79.56	2.24	2.82	123.20	0.00	0.50
35.50	87.26	2.23	2.55	123.20	0.00	0.50
35.57	96.72	2.05	2.12	123.20	0.00	0.50
35.64	104.69	1.79	1.71	123.20	0.00	0.50
35.70	110.90	1.60	1.44	123.20	0.00	0.50
35.76	115.91	1.52	1.31	123.20	0.00	0.50
35.83	120.64	1.44	1.20	123.20	0.00	0.50
35.89	123.70	1.36	1.10	123.20	0.00	0.50
35.96	126.76	1.41	1.11	123.20	0.00	0.50
36.03	128.80	1.47	1.14	123.20	0.00	0.50

36.09	129.17	1.54	1.20	123.20	0.00	0.50
36.16	127.78	1.61	1.26	123.20	0.00	0.50
36.22	123.88	1.68	1.35	123.20	0.00	0.50
36.32	124.16	1.76	1.42	123.20	0.00	0.50
36.38	122.59	1.80	1.47	123.20	0.00	0.50
36.44	121.10	1.83	1.51	123.20	0.00	0.50
36.51	119.53	1.83	1.53	123.20	0.00	0.50
36.57	117.58	1.82	1.55	123.20	0.00	0.50
36.63	114.52	1.82	1.59	123.20	0.00	0.50
36.70	114.24	1.82	1.59	123.20	0.00	0.50
36.76	112.02	1.83	1.64	123.20	0.00	0.50
36.82	109.42	1.85	1.69	123.20	0.00	0.50
36.89	105.71	1.83	1.73	123.20	0.00	0.50
36.96	100.80	1.80	1.79	123.20	0.00	0.50
37.02	95.23	1.77	1.86	123.20	0.00	0.50
37.09	90.69	1.71	1.88	123.20	0.00	0.50
37.14	82.90	1.64	1.98	123.20	0.00	0.50
37.21	83.46	1.57	1.89	123.20	0.00	0.50
37.30	80.49	1.53	1.90	123.20	0.00	0.50
37.36	75.57	1.52	2.01	123.20	0.00	0.50
37.43	69.92	1.52	2.18	123.20	0.00	0.50
37.49	63.24	1.50	2.37	123.20	0.00	0.50
37.56	57.03	1.47	2.58	123.20	0.00	0.50
37.63	50.44	1.47	2.92	123.20	0.00	0.50
37.69	43.12	1.47	3.41	123.20	0.00	0.50
37.75	35.98	1.46	4.06	123.20	0.00	0.50
37.82	29.49	1.42	4.82	123.20	0.00	0.50
37.89	25.78	1.35	5.24	123.20	0.00	0.50
37.95	22.72	1.27	5.58	123.20	0.00	0.50
38.02	20.68	1.14	5.52	123.20	0.00	0.50
38.09	18.73	1.02	5.45	123.20	0.00	0.50
38.15	17.71	0.91	5.14	123.20	0.00	0.50
38.22	17.53	0.83	4.75	123.20	0.00	0.50
38.28	17.53	0.68	3.86	123.20	0.00	0.50
38.35	17.62	0.53	3.00	123.20	0.00	0.50
38.41	17.53	0.56	3.21	123.20	0.00	0.50
38.48	17.34	0.60	3.46	123.20	0.00	0.50
38.54	16.88	0.63	3.73	123.20	0.00	0.50
38.61	16.04	0.65	4.08	123.20	0.00	0.50
38.67	15.67	0.67	4.31	123.20	0.00	0.50
38.73	15.39	0.69	4.46	123.20	0.00	0.50
38.80	14.93	0.70	4.67	123.20	0.00	0.50
38.87	14.84	0.68	4.56	123.20	0.00	0.50
38.93	14.84	0.63	4.28	123.20	0.00	0.50
38.99	14.84	0.61	4.08	123.20	0.00	0.50
39.05	14.84	0.60	4.02	123.20	0.00	0.50
39.12	15.11	0.59	3.93	123.20	0.00	0.50
39.18	15.49	0.59	3.79	123.20	0.00	0.50
39.25	15.67	0.60	3.84	123.20	0.00	0.50
39.32	16.04	0.61	3.83	123.20	0.00	0.50

39.39	16.78	0.69	4.11	123.20	0.00	0.50
39.45	18.17	0.79	4.35	123.20	0.00	0.50
39.52	21.33	0.84	3.93	123.20	0.00	0.50
39.59	23.74	0.95	4.00	123.20	0.00	0.50
39.66	26.71	1.11	4.15	123.20	0.00	0.50
39.72	30.88	1.24	4.03	123.20	0.00	0.50
39.78	38.30	1.34	3.50	123.20	0.00	0.50
39.85	46.18	1.39	3.02	123.20	0.00	0.50
39.91	49.70	1.39	2.79	123.20	0.00	0.50
39.98	56.47	1.32	2.34	123.20	0.00	0.50
40.04	64.35	1.19	1.84	123.20	0.00	0.50
40.12	71.68	0.99	1.38	123.20	0.00	0.50
40.19	76.41	0.89	1.16	123.20	0.00	0.50
40.25	77.89	0.99	1.28	123.20	0.00	0.50
40.31	76.13	1.25	1.64	123.20	0.00	0.50
40.38	70.75	1.58	2.24	123.20	0.00	0.50
40.45	64.26	1.80	2.81	123.20	0.00	0.50
40.51	59.16	2.00	3.38	123.20	0.00	0.50
40.58	58.79	2.17	3.69	123.20	0.00	0.50
40.64	65.56	2.30	3.51	123.20	0.00	0.50
40.71	83.55	2.36	2.83	123.20	0.00	0.50
40.78	105.62	2.42	2.29	123.20	0.00	0.50
40.84	124.16	2.13	1.72	123.20	0.00	0.50
40.91	136.22	1.99	1.46	123.20	0.00	0.50
40.97	142.80	1.95	1.36	123.20	0.00	0.50
41.04	149.76	1.97	1.32	123.20	0.00	0.50
41.08	151.52	1.95	1.28	123.20	0.00	0.50
41.15	150.87	1.90	1.26	123.20	0.00	0.50
41.22	135.94	2.13	1.56	123.20	0.00	0.50
41.28	140.39	2.37	1.69	123.20	0.00	0.50
41.35	131.58	2.63	2.00	123.20	0.00	0.50
41.42	120.27	2.83	2.35	123.20	0.00	0.50
41.48	109.70	3.03	2.76	123.20	0.00	0.50
41.54	119.16	3.11	2.61	123.20	0.00	0.50
41.63	118.04	3.28	2.78	123.20	0.00	0.50
41.69	136.59	3.30	2.41	123.20	0.00	0.50
41.76	164.04	3.37	2.05	123.20	0.00	0.50
41.83	186.29	3.58	1.92	123.20	0.00	0.50
41.89	198.35	3.72	1.87	123.20	0.00	0.50
41.93	198.99	3.76	1.89	123.20	0.00	0.50
41.99	210.68	3.57	1.69	123.20	0.00	0.50
42.07	222.83	3.46	1.55	123.20	0.00	0.50
42.13	230.52	3.49	1.52	123.20	0.00	0.50
42.20	236.92	3.65	1.54	123.20	0.00	0.50
42.28	241.37	3.85	1.59	123.20	0.00	0.50
42.34	244.80	3.95	1.61	123.20	0.00	0.50
42.40	248.60	3.97	1.60	123.20	0.00	0.50
42.47	253.43	3.89	1.53	123.20	0.00	0.50
42.54	260.29	3.84	1.48	123.20	0.00	0.50
42.61	269.37	3.83	1.42	123.20	0.00	0.50

42.67	277.35	3.84	1.38	123.20	0.00	0.50
42.74	286.07	3.87	1.35	123.20	0.00	0.50
42.79	292.37	3.87	1.32	123.20	0.00	0.50
42.85	296.64	3.81	1.28	123.20	0.00	0.50
42.92	303.87	3.73	1.23	123.20	0.00	0.50
42.99	305.82	3.68	1.20	123.20	0.00	0.50
43.05	304.15	3.64	1.20	123.20	0.00	0.50
43.12	301.27	3.60	1.20	123.20	0.00	0.50
43.18	298.21	3.54	1.19	123.20	0.00	0.50
43.24	293.39	3.43	1.17	123.20	0.00	0.50
43.34	286.53	3.38	1.18	123.20	0.00	0.50
43.40	282.36	2.32	0.82	123.20	0.00	0.50
43.47	286.67	2.00	0.70	123.20	0.00	0.50
43.54	280.59	2.26	0.80	123.20	0.00	0.50
43.60	286.81	2.44	0.85	123.20	0.00	0.50
43.67	292.93	2.62	0.90	123.20	0.00	0.50
43.73	294.13	2.72	0.93	123.20	0.00	0.50
43.77	260.38	2.78	1.07	123.20	0.00	0.50
43.84	281.99	2.97	1.05	123.20	0.00	0.50
43.91	280.59	3.32	1.18	123.20	0.00	0.50
43.98	284.30	3.77	1.33	123.20	0.00	0.50
44.03	272.99	3.97	1.46	123.20	0.00	0.50
44.11	287.46	4.23	1.47	123.20	0.00	0.50
44.17	289.50	4.43	1.53	123.20	0.00	0.50
44.24	289.13	4.71	1.63	123.20	0.00	0.50
44.30	286.53	4.97	1.73	123.20	0.00	0.50
44.37	287.83	5.12	1.78	123.20	0.00	0.50
44.43	285.79	5.16	1.81	123.20	0.00	0.50
44.50	280.69	5.16	1.84	123.20	0.00	0.50
44.57	274.47	5.14	1.87	123.20	0.00	0.50
44.63	267.52	5.12	1.91	123.20	0.00	0.50
44.70	259.36	5.09	1.96	123.20	0.00	0.50
44.76	251.01	4.98	1.98	123.20	0.00	0.50
44.83	240.63	4.85	2.02	123.20	0.00	0.50
44.89	233.03	4.77	2.04	123.20	0.00	0.50
44.96	223.57	4.64	2.07	123.20	0.00	0.50
45.03	213.83	4.47	2.09	124.10	0.00	0.50
45.09	207.62	4.31	2.08	124.10	0.00	0.50
45.15	201.22	4.16	2.07	124.10	0.00	0.50
45.21	193.43	4.02	2.08	124.10	0.00	0.50
45.29	185.18	3.82	2.07	124.10	0.00	0.50
45.35	180.45	3.59	1.99	124.10	0.00	0.50
45.42	177.39	3.40	1.92	124.10	0.00	0.50
45.49	177.39	3.23	1.82	124.10	0.00	0.50
45.55	177.85	2.93	1.65	124.10	0.00	0.50
45.61	178.18	2.17	1.22	124.10	0.00	0.50
45.70	183.32	2.80	1.53	124.10	0.00	0.50
45.76	178.50	2.83	1.58	124.10	0.00	0.50
45.83	164.22	2.87	1.75	124.10	0.00	0.50
45.90	144.84	2.91	2.01	124.10	0.00	0.50

45.94	83.92	2.93	3.49	124.10	0.00	0.50
46.00	111.74	2.95	2.64	124.10	0.00	0.50
46.07	93.01	2.96	3.18	124.10	0.00	0.50
46.13	73.72	2.80	3.80	124.10	0.00	0.50
46.20	56.66	2.56	4.52	124.10	0.00	0.50
46.26	44.14	2.21	5.00	124.10	0.00	0.50
46.33	35.51	1.87	5.26	124.10	0.00	0.50
46.42	26.33	1.47	5.58	124.10	0.00	0.50
46.46	25.41	1.36	5.35	124.10	0.00	0.50
46.53	26.20	1.14	4.37	124.10	0.00	0.50
46.59	25.04	0.97	3.89	124.10	0.00	0.50
46.65	26.06	0.84	3.24	124.10	0.00	0.50
46.72	27.26	0.82	3.01	124.10	0.00	0.50
46.82	26.52	0.82	3.09	124.10	0.00	0.50
46.88	25.41	0.87	3.42	124.10	0.00	0.50
46.92	25.13	0.92	3.67	124.10	0.00	0.50
47.01	23.27	1.04	4.47	124.10	0.00	0.50
47.07	22.90	1.09	4.74	124.10	0.00	0.50
47.14	24.20	1.13	4.69	124.10	0.00	0.50
47.21	27.26	1.23	4.50	124.10	0.00	0.50
47.27	30.32	1.44	4.74	124.10	0.00	0.50
47.34	33.20	1.68	5.07	124.10	0.00	0.50
47.40	36.07	1.94	5.38	124.10	0.00	0.50
47.46	38.85	2.21	5.69	124.10	0.00	0.50
47.53	41.73	2.18	5.22	124.10	0.00	0.50
47.59	44.88	2.04	4.55	124.10	0.00	0.50
47.65	47.01	2.25	4.79	124.10	0.00	0.50
47.72	51.37	2.58	5.01	124.10	0.00	0.50
47.78	55.82	2.87	5.13	124.10	0.00	0.50
47.85	61.20	3.17	5.18	124.10	0.00	0.50
47.91	63.98	3.38	5.28	124.10	0.00	0.50
47.97	68.16	3.52	5.16	124.10	0.00	0.50
48.03	62.96	3.60	5.73	124.10	0.00	0.50
48.10	57.95	3.47	5.99	124.10	0.00	0.50
48.19	56.56	2.78	4.92	124.10	0.00	0.50
48.26	56.01	2.52	4.50	124.10	0.00	0.50
48.32	53.69	2.29	4.26	124.10	0.00	0.50
48.39	47.01	2.00	4.24	124.10	0.00	0.50
48.46	38.67	1.81	4.69	124.10	0.00	0.50
48.52	32.92	1.71	5.19	124.10	0.00	0.50
48.56	31.71	1.66	5.24	124.10	0.00	0.50
48.66	35.14	1.56	4.43	124.10	0.00	0.50
48.72	35.79	1.48	4.13	124.10	0.00	0.50
48.78	33.66	1.34	3.99	124.10	0.00	0.50
48.85	30.51	1.19	3.90	124.10	0.00	0.50
48.91	27.35	1.09	3.98	124.10	0.00	0.50
48.97	24.48	1.04	4.27	124.10	0.00	0.50
49.04	22.16	1.04	4.68	124.10	0.00	0.50
49.10	21.33	1.01	4.74	124.10	0.00	0.50
49.16	21.23	0.97	4.59	124.10	0.00	0.50

49.23	22.44	0.98	4.37	124.10	0.00	0.50
49.29	24.39	1.13	4.63	124.10	0.00	0.50
49.35	27.63	1.22	4.42	124.10	0.00	0.50
49.41	30.88	1.27	4.10	124.10	0.00	0.50
49.50	33.85	1.68	4.96	124.10	0.00	0.50
49.57	36.16	1.98	5.47	124.10	0.00	0.50
49.63	40.34	2.11	5.23	124.10	0.00	0.50
49.70	46.83	2.01	4.28	124.10	0.00	0.50
49.77	54.25	1.95	3.60	124.10	0.00	0.50
49.83	54.52	1.94	3.55	124.10	0.00	0.50
49.90	48.96	0.00	0.00	124.10	0.00	0.50
49.97	48.64	0.00	0.00	124.10	0.00	0.50

Modify Robertson method generates Fines from qc/fs. Inputted Fines are not relevant.

Output Results:

Settlement of Saturated Sands=2.47 in.
Settlement of Unsaturated Sands=0.43 in.
Total Settlement of Saturated and Unsaturated Sands=2.90 in.
Differential Settlement=1.450 to 1.914 in.

Depth ft	CRRm	CSRfs	F.S.	S_sat. in.	S_dry in.	S_all in.
0.00	2.00	0.63	5.00	2.47	0.43	2.90
0.05	2.08	0.63	5.00	2.47	0.43	2.90
0.10	2.08	0.63	5.00	2.47	0.43	2.90
0.15	2.08	0.63	5.00	2.47	0.43	2.90
0.20	2.08	0.63	5.00	2.47	0.43	2.90
0.25	2.08	0.63	5.00	2.47	0.43	2.90
0.30	2.08	0.63	5.00	2.47	0.43	2.90
0.35	2.08	0.63	5.00	2.47	0.43	2.90
0.40	2.08	0.63	5.00	2.47	0.43	2.90
0.45	2.08	0.63	5.00	2.47	0.43	2.90
0.50	2.08	0.63	5.00	2.47	0.43	2.90
0.55	2.08	0.63	5.00	2.47	0.43	2.90
0.60	2.08	0.63	5.00	2.47	0.43	2.90
0.65	2.08	0.63	5.00	2.47	0.43	2.90
0.70	2.08	0.63	5.00	2.47	0.43	2.90
0.75	2.08	0.63	5.00	2.47	0.43	2.90
0.80	1.89	0.63	5.00	2.47	0.43	2.90
0.85	1.50	0.63	5.00	2.47	0.43	2.90
0.90	1.24	0.63	5.00	2.47	0.43	2.90
0.95	1.06	0.63	5.00	2.47	0.43	2.90
1.00	0.94	0.63	5.00	2.47	0.43	2.90
1.05	0.77	0.63	5.00	2.47	0.43	2.90
1.10	0.64	0.63	5.00	2.47	0.43	2.90
1.15	0.55	0.63	5.00	2.47	0.43	2.90
1.20	0.49	0.63	5.00	2.47	0.43	2.90

1.25	0.44	0.63	5.00	2.47	0.43	2.90
1.30	0.41	0.63	5.00	2.47	0.43	2.90
1.35	0.39	0.63	5.00	2.47	0.43	2.90
1.40	0.36	0.63	5.00	2.47	0.43	2.90
1.45	0.30	0.63	5.00	2.47	0.43	2.90
1.50	0.27	0.63	5.00	2.47	0.43	2.90
1.55	0.27	0.63	5.00	2.47	0.43	2.90
1.60	0.26	0.63	5.00	2.47	0.43	2.90
1.65	0.22	0.63	5.00	2.47	0.43	2.90
1.70	0.21	0.63	5.00	2.47	0.43	2.90
1.75	0.22	0.63	5.00	2.47	0.43	2.90
1.80	0.25	0.63	5.00	2.47	0.43	2.90
1.85	0.27	0.63	5.00	2.47	0.43	2.90
1.90	0.23	0.63	5.00	2.47	0.43	2.90
1.95	0.24	0.63	5.00	2.47	0.43	2.90
2.00	0.21	0.63	5.00	2.47	0.43	2.90
2.05	0.17	0.63	5.00	2.47	0.43	2.90
2.10	0.17	0.63	5.00	2.47	0.43	2.89
2.15	0.13	0.63	5.00	2.47	0.42	2.89
2.20	0.14	0.63	5.00	2.47	0.42	2.89
2.25	0.15	0.63	5.00	2.47	0.42	2.89
2.30	0.20	0.63	5.00	2.47	0.42	2.89
2.35	0.23	0.63	5.00	2.47	0.42	2.89
2.40	0.22	0.63	5.00	2.47	0.42	2.89
2.45	0.18	0.63	5.00	2.47	0.42	2.89
2.50	0.18	0.63	5.00	2.47	0.42	2.89
2.55	0.17	0.63	5.00	2.47	0.42	2.88
2.60	0.17	0.63	5.00	2.47	0.41	2.88
2.65	0.17	0.63	5.00	2.47	0.41	2.88
2.70	0.14	0.63	5.00	2.47	0.41	2.88
2.75	0.12	0.63	5.00	2.47	0.40	2.87
2.80	0.13	0.63	5.00	2.47	0.39	2.86
2.85	0.15	0.63	5.00	2.47	0.38	2.85
2.90	0.17	0.63	5.00	2.47	0.37	2.84
2.95	0.16	0.63	5.00	2.47	0.36	2.83
3.00	0.16	0.63	5.00	2.47	0.36	2.83
3.05	0.15	0.63	5.00	2.47	0.35	2.82
3.10	0.14	0.63	5.00	2.47	0.34	2.81
3.15	0.15	0.63	5.00	2.47	0.33	2.80
3.20	0.14	0.63	5.00	2.47	0.32	2.79
3.25	0.14	0.63	5.00	2.47	0.31	2.78
3.30	0.13	0.63	5.00	2.47	0.30	2.77
3.35	0.13	0.63	5.00	2.47	0.29	2.76
3.40	0.13	0.63	5.00	2.47	0.28	2.74
3.45	0.12	0.63	5.00	2.47	0.26	2.73
3.50	0.12	0.63	5.00	2.47	0.25	2.72
3.55	0.12	0.63	5.00	2.47	0.24	2.71
3.60	0.12	0.63	5.00	2.47	0.23	2.70
3.65	0.11	0.63	5.00	2.47	0.22	2.69
3.70	2.00	0.63	5.00	2.47	0.21	2.68

3.75	2.00	0.63	5.00	2.47	0.21	2.68
3.80	0.12	0.63	5.00	2.47	0.21	2.68
3.85	0.13	0.63	5.00	2.47	0.20	2.66
3.90	0.13	0.63	5.00	2.47	0.19	2.65
3.95	0.13	0.63	5.00	2.47	0.17	2.64
4.00	0.13	0.63	5.00	2.47	0.16	2.63
4.05	0.13	0.63	5.00	2.47	0.15	2.62
4.10	0.13	0.63	5.00	2.47	0.14	2.61
4.15	0.12	0.63	5.00	2.47	0.13	2.60
4.20	0.12	0.63	5.00	2.47	0.12	2.59
4.25	0.12	0.62	5.00	2.47	0.11	2.58
4.30	0.13	0.62	5.00	2.47	0.10	2.57
4.35	0.14	0.62	5.00	2.47	0.09	2.56
4.40	0.15	0.62	5.00	2.47	0.09	2.56
4.45	0.16	0.62	5.00	2.47	0.09	2.56
4.50	0.18	0.62	5.00	2.47	0.09	2.56
4.55	0.19	0.62	5.00	2.47	0.09	2.56
4.60	0.19	0.62	5.00	2.47	0.09	2.56
4.65	0.14	0.62	5.00	2.47	0.08	2.55
4.70	0.13	0.62	5.00	2.47	0.08	2.55
4.75	0.13	0.62	5.00	2.47	0.07	2.54
4.80	0.13	0.62	5.00	2.47	0.06	2.52
4.85	0.13	0.62	5.00	2.47	0.04	2.51
4.90	0.14	0.62	5.00	2.47	0.03	2.50
4.95	0.14	0.62	5.00	2.47	0.01	2.48
5.00	0.15	0.62	0.24*	2.47	0.00	2.47
5.05	0.16	0.63	0.26*	2.46	0.00	2.46
5.10	0.17	0.63	0.28*	2.44	0.00	2.44
5.15	0.18	0.63	0.29*	2.43	0.00	2.43
5.20	0.19	0.64	0.30*	2.42	0.00	2.42
5.25	0.20	0.64	0.31*	2.40	0.00	2.40
5.30	0.21	0.64	0.32*	2.39	0.00	2.39
5.35	0.22	0.65	0.34*	2.38	0.00	2.38
5.40	0.23	0.65	0.35*	2.37	0.00	2.37
5.45	0.24	0.65	0.36*	2.36	0.00	2.36
5.50	0.25	0.66	0.38*	2.35	0.00	2.35
5.55	0.26	0.66	0.39*	2.34	0.00	2.34
5.60	0.27	0.66	0.40*	2.33	0.00	2.33
5.65	0.27	0.66	0.41*	2.31	0.00	2.31
5.70	0.27	0.67	0.41*	2.30	0.00	2.30
5.75	0.27	0.67	0.41*	2.29	0.00	2.29
5.80	0.27	0.67	0.40*	2.29	0.00	2.29
5.85	0.26	0.68	0.39*	2.28	0.00	2.28
5.90	0.26	0.68	0.38*	2.27	0.00	2.27
5.95	0.25	0.68	0.36*	2.26	0.00	2.26
6.00	0.24	0.69	0.35*	2.25	0.00	2.25
6.05	0.23	0.69	0.34*	2.24	0.00	2.24
6.10	0.23	0.69	0.33*	2.23	0.00	2.23
6.15	0.22	0.69	0.32*	2.22	0.00	2.22
6.20	0.22	0.70	0.31*	2.21	0.00	2.21

6.25	0.21	0.70	0.30*	2.20	0.00	2.20
6.30	0.20	0.70	0.29*	2.18	0.00	2.18
6.35	0.19	0.70	0.27*	2.17	0.00	2.17
6.40	0.18	0.71	0.26*	2.16	0.00	2.16
6.45	0.18	0.71	0.25*	2.15	0.00	2.15
6.50	0.18	0.71	0.25*	2.14	0.00	2.14
6.55	0.18	0.71	0.25*	2.13	0.00	2.13
6.60	0.18	0.72	0.26*	2.12	0.00	2.12
6.65	0.19	0.72	0.26*	2.10	0.00	2.10
6.70	0.19	0.72	0.26*	2.09	0.00	2.09
6.75	0.19	0.72	0.26*	2.08	0.00	2.08
6.80	0.19	0.73	0.27*	2.06	0.00	2.06
6.85	0.20	0.73	0.27*	2.05	0.00	2.05
6.90	0.20	0.73	0.28*	2.04	0.00	2.04
6.95	0.21	0.73	0.28*	2.03	0.00	2.03
7.00	0.20	0.74	0.28*	2.02	0.00	2.02
7.05	0.20	0.74	0.27*	2.00	0.00	2.00
7.10	0.20	0.74	0.27*	1.99	0.00	1.99
7.15	0.20	0.74	0.27*	1.98	0.00	1.98
7.20	0.22	0.75	0.29*	1.97	0.00	1.97
7.25	0.24	0.75	0.33*	1.96	0.00	1.96
7.30	0.31	0.75	0.41*	1.95	0.00	1.95
7.35	0.40	0.75	0.53*	1.95	0.00	1.95
7.40	0.45	0.75	0.59*	1.95	0.00	1.95
7.45	0.40	0.76	0.53*	1.95	0.00	1.95
7.50	0.36	0.76	0.48*	1.95	0.00	1.95
7.55	0.28	0.76	0.37*	1.95	0.00	1.95
7.60	0.18	0.76	0.24*	1.95	0.00	1.95
7.65	0.14	0.77	0.19*	1.94	0.00	1.94
7.70	0.13	0.77	0.18*	1.93	0.00	1.93
7.75	0.15	0.77	0.19*	1.91	0.00	1.91
7.80	0.16	0.77	0.21*	1.90	0.00	1.90
7.85	0.18	0.77	0.23*	1.89	0.00	1.89
7.90	0.20	0.78	0.25*	1.87	0.00	1.87
7.95	0.21	0.78	0.27*	1.86	0.00	1.86
8.00	0.20	0.78	0.26*	1.85	0.00	1.85
8.05	0.20	0.78	0.26*	1.84	0.00	1.84
8.10	0.20	0.78	0.25*	1.83	0.00	1.83
8.15	0.18	0.79	0.23*	1.82	0.00	1.82
8.20	0.17	0.79	0.22*	1.81	0.00	1.81
8.25	0.17	0.79	0.21*	1.79	0.00	1.79
8.30	0.16	0.79	0.20*	1.78	0.00	1.78
8.35	0.16	0.79	0.20*	1.77	0.00	1.77
8.40	0.18	0.80	0.22*	1.76	0.00	1.76
8.45	0.23	0.80	0.29*	1.75	0.00	1.75
8.50	0.37	0.80	0.47*	1.74	0.00	1.74
8.55	0.47	0.80	0.59*	1.74	0.00	1.74
8.60	2.00	0.80	5.00	1.74	0.00	1.74
8.65	2.00	0.81	5.00	1.74	0.00	1.74
8.70	2.00	0.81	5.00	1.74	0.00	1.74

8.75	0.58	0.81	0.71*	1.74	0.00	1.74
8.80	0.36	0.81	0.45*	1.74	0.00	1.74
8.85	0.29	0.81	0.36*	1.74	0.00	1.74
8.90	0.29	0.81	0.35*	1.74	0.00	1.74
8.95	0.30	0.82	0.37*	1.74	0.00	1.74
9.00	0.29	0.82	0.35*	1.73	0.00	1.73
9.05	0.27	0.82	0.33*	1.73	0.00	1.73
9.10	0.26	0.82	0.32*	1.72	0.00	1.72
9.15	0.26	0.82	0.31*	1.72	0.00	1.72
9.20	0.26	0.82	0.32*	1.71	0.00	1.71
9.25	0.26	0.83	0.32*	1.70	0.00	1.70
9.30	0.27	0.83	0.32*	1.69	0.00	1.69
9.35	0.27	0.83	0.33*	1.68	0.00	1.68
9.40	0.27	0.83	0.33*	1.68	0.00	1.68
9.45	0.28	0.83	0.34*	1.67	0.00	1.67
9.50	0.29	0.83	0.34*	1.66	0.00	1.66
9.55	0.29	0.84	0.35*	1.65	0.00	1.65
9.60	0.30	0.84	0.36*	1.64	0.00	1.64
9.65	0.30	0.84	0.36*	1.64	0.00	1.64
9.70	0.31	0.84	0.37*	1.63	0.00	1.63
9.75	0.31	0.84	0.37*	1.62	0.00	1.62
9.80	0.32	0.84	0.37*	1.62	0.00	1.62
9.85	0.31	0.85	0.37*	1.61	0.00	1.61
9.90	0.31	0.85	0.36*	1.61	0.00	1.61
9.95	0.30	0.85	0.35*	1.61	0.00	1.61
10.00	0.28	0.85	0.33*	1.61	0.00	1.61
10.05	0.25	0.85	0.29*	1.60	0.00	1.60
10.10	0.21	0.85	0.25*	1.60	0.00	1.60
10.15	0.18	0.85	0.21*	1.59	0.00	1.59
10.20	0.15	0.86	0.18*	1.58	0.00	1.58
10.25	0.14	0.86	0.16*	1.56	0.00	1.56
10.30	0.14	0.86	0.16*	1.55	0.00	1.55
10.35	0.14	0.86	0.17*	1.54	0.00	1.54
10.40	0.14	0.86	0.17*	1.53	0.00	1.53
10.45	0.14	0.86	0.16*	1.52	0.00	1.52
10.50	0.14	0.86	0.16*	1.50	0.00	1.50
10.55	0.13	0.86	0.15*	1.49	0.00	1.49
10.60	0.13	0.87	0.15*	1.48	0.00	1.48
10.65	0.13	0.87	0.15*	1.47	0.00	1.47
10.70	0.14	0.87	0.16*	1.45	0.00	1.45
10.75	0.16	0.87	0.18*	1.44	0.00	1.44
10.80	0.17	0.87	0.20*	1.43	0.00	1.43
10.85	0.18	0.87	0.21*	1.41	0.00	1.41
10.90	0.18	0.87	0.20*	1.40	0.00	1.40
10.95	0.17	0.87	0.20*	1.39	0.00	1.39
11.00	0.17	0.87	0.20*	1.38	0.00	1.38
11.05	0.16	0.88	0.19*	1.37	0.00	1.37
11.10	0.16	0.88	0.18*	1.35	0.00	1.35
11.15	0.15	0.88	0.17*	1.34	0.00	1.34
11.20	0.13	0.88	0.15*	1.33	0.00	1.33

11.25	0.13	0.88	0.14*	1.32	0.00	1.32
11.30	0.12	0.88	0.14*	1.30	0.00	1.30
11.35	0.13	0.88	0.14*	1.29	0.00	1.29
11.40	0.13	0.88	0.15*	1.27	0.00	1.27
11.45	0.14	0.88	0.16*	1.26	0.00	1.26
11.50	0.14	0.88	0.16*	1.25	0.00	1.25
11.55	0.15	0.89	0.17*	1.23	0.00	1.23
11.60	0.15	0.89	0.17*	1.22	0.00	1.22
11.65	0.16	0.89	0.18*	1.21	0.00	1.21
11.70	0.18	0.89	0.20*	1.20	0.00	1.20
11.75	0.20	0.89	0.22*	1.19	0.00	1.19
11.80	0.24	0.89	0.27*	1.18	0.00	1.18
11.85	0.32	0.89	0.36*	1.17	0.00	1.17
11.90	0.47	0.89	0.52*	1.17	0.00	1.17
11.95	0.54	0.89	0.60*	1.17	0.00	1.17
12.00	0.77	0.89	0.86*	1.17	0.00	1.17
12.05	0.69	0.90	0.77*	1.17	0.00	1.17
12.10	2.00	0.90	5.00	1.17	0.00	1.17
12.15	2.00	0.90	5.00	1.17	0.00	1.17
12.20	2.00	0.90	5.00	1.17	0.00	1.17
12.25	2.00	0.90	5.00	1.17	0.00	1.17
12.30	2.00	0.90	5.00	1.17	0.00	1.17
12.35	2.00	0.90	5.00	1.17	0.00	1.17
12.40	2.00	0.90	5.00	1.17	0.00	1.17
12.45	2.00	0.90	5.00	1.17	0.00	1.17
12.50	2.00	0.90	5.00	1.17	0.00	1.17
12.55	0.39	0.90	0.43*	1.17	0.00	1.17
12.60	0.22	0.91	0.24*	1.17	0.00	1.17
12.65	0.16	0.91	0.18*	1.16	0.00	1.16
12.70	0.15	0.91	0.17*	1.15	0.00	1.15
12.75	0.15	0.91	0.16*	1.14	0.00	1.14
12.80	0.16	0.91	0.18*	1.13	0.00	1.13
12.85	0.19	0.91	0.21*	1.12	0.00	1.12
12.90	0.27	0.91	0.30*	1.11	0.00	1.11
12.95	0.50	0.91	0.55*	1.11	0.00	1.11
13.00	2.00	0.91	5.00	1.11	0.00	1.11
13.05	2.00	0.91	5.00	1.11	0.00	1.11
13.10	2.00	0.91	5.00	1.11	0.00	1.11
13.15	2.00	0.91	5.00	1.11	0.00	1.11
13.20	2.00	0.92	5.00	1.11	0.00	1.11
13.25	2.00	0.92	5.00	1.11	0.00	1.11
13.30	2.00	0.92	5.00	1.11	0.00	1.11
13.35	2.00	0.92	5.00	1.11	0.00	1.11
13.40	2.00	0.92	5.00	1.11	0.00	1.11
13.45	2.00	0.92	5.00	1.11	0.00	1.11
13.50	2.00	0.92	5.00	1.11	0.00	1.11
13.55	2.00	0.92	5.00	1.11	0.00	1.11
13.60	2.00	0.92	5.00	1.11	0.00	1.11
13.65	2.00	0.92	5.00	1.11	0.00	1.11
13.70	2.00	0.92	5.00	1.11	0.00	1.11

13.75	2.00	0.92	5.00	1.11	0.00	1.11
13.80	2.00	0.92	5.00	1.11	0.00	1.11
13.85	2.00	0.92	5.00	1.11	0.00	1.11
13.90	2.00	0.93	5.00	1.11	0.00	1.11
13.95	2.00	0.93	5.00	1.11	0.00	1.11
14.00	2.00	0.93	5.00	1.11	0.00	1.11
14.05	2.00	0.93	5.00	1.11	0.00	1.11
14.10	2.00	0.93	5.00	1.11	0.00	1.11
14.15	2.00	0.93	5.00	1.11	0.00	1.11
14.20	2.00	0.93	5.00	1.11	0.00	1.11
14.25	2.00	0.93	5.00	1.11	0.00	1.11
14.30	2.00	0.93	5.00	1.11	0.00	1.11
14.35	2.00	0.93	5.00	1.11	0.00	1.11
14.40	2.00	0.93	5.00	1.11	0.00	1.11
14.45	2.00	0.93	5.00	1.11	0.00	1.11
14.50	2.00	0.93	5.00	1.11	0.00	1.11
14.55	2.00	0.93	5.00	1.11	0.00	1.11
14.60	2.00	0.93	5.00	1.11	0.00	1.11
14.65	2.00	0.94	5.00	1.11	0.00	1.11
14.70	2.00	0.94	5.00	1.11	0.00	1.11
14.75	2.00	0.94	5.00	1.11	0.00	1.11
14.80	2.00	0.94	5.00	1.11	0.00	1.11
14.85	2.00	0.94	5.00	1.11	0.00	1.11
14.90	2.00	0.94	5.00	1.11	0.00	1.11
14.95	2.00	0.94	5.00	1.11	0.00	1.11
15.00	2.00	0.94	5.00	1.11	0.00	1.11
15.05	2.00	0.94	5.00	1.11	0.00	1.11
15.10	2.00	0.94	5.00	1.11	0.00	1.11
15.15	2.00	0.94	5.00	1.11	0.00	1.11
15.20	2.00	0.94	5.00	1.11	0.00	1.11
15.25	2.00	0.94	5.00	1.11	0.00	1.11
15.30	2.00	0.94	5.00	1.11	0.00	1.11
15.35	2.00	0.94	5.00	1.11	0.00	1.11
15.40	2.00	0.95	5.00	1.11	0.00	1.11
15.45	2.00	0.95	5.00	1.11	0.00	1.11
15.50	2.00	0.95	5.00	1.11	0.00	1.11
15.55	2.00	0.95	5.00	1.11	0.00	1.11
15.60	2.00	0.95	5.00	1.11	0.00	1.11
15.65	2.00	0.95	5.00	1.11	0.00	1.11
15.70	2.00	0.95	5.00	1.11	0.00	1.11
15.75	2.00	0.95	5.00	1.11	0.00	1.11
15.80	2.00	0.95	5.00	1.11	0.00	1.11
15.85	2.00	0.95	5.00	1.11	0.00	1.11
15.90	2.00	0.95	5.00	1.11	0.00	1.11
15.95	2.00	0.95	5.00	1.11	0.00	1.11
16.00	2.00	0.95	5.00	1.11	0.00	1.11
16.05	2.00	0.95	5.00	1.11	0.00	1.11
16.10	2.00	0.96	5.00	1.11	0.00	1.11
16.15	2.00	0.96	5.00	1.11	0.00	1.11
16.20	2.00	0.96	5.00	1.11	0.00	1.11

16.25	2.00	0.96	5.00	1.11	0.00	1.11
16.30	2.00	0.96	5.00	1.11	0.00	1.11
16.35	2.00	0.96	5.00	1.11	0.00	1.11
16.40	2.00	0.96	5.00	1.11	0.00	1.11
16.45	2.00	0.96	5.00	1.11	0.00	1.11
16.50	2.00	0.96	5.00	1.11	0.00	1.11
16.55	2.00	0.96	5.00	1.11	0.00	1.11
16.60	2.00	0.96	5.00	1.11	0.00	1.11
16.65	2.00	0.96	5.00	1.11	0.00	1.11
16.70	2.00	0.96	5.00	1.11	0.00	1.11
16.75	2.00	0.96	5.00	1.11	0.00	1.11
16.80	2.00	0.96	5.00	1.11	0.00	1.11
16.85	2.00	0.97	5.00	1.11	0.00	1.11
16.90	2.00	0.97	5.00	1.11	0.00	1.11
16.95	2.00	0.97	5.00	1.11	0.00	1.11
17.00	2.00	0.97	5.00	1.11	0.00	1.11
17.05	2.00	0.97	5.00	1.11	0.00	1.11
17.10	2.00	0.97	5.00	1.11	0.00	1.11
17.15	2.00	0.97	5.00	1.11	0.00	1.11
17.20	2.00	0.97	5.00	1.11	0.00	1.11
17.25	0.66	0.97	0.68*	1.11	0.00	1.11
17.30	0.59	0.97	0.61*	1.11	0.00	1.11
17.35	0.68	0.97	0.70*	1.11	0.00	1.11
17.40	0.84	0.97	0.86*	1.11	0.00	1.11
17.45	0.92	0.97	0.95*	1.11	0.00	1.11
17.50	1.06	0.97	1.09	1.11	0.00	1.11
17.55	1.16	0.97	1.19	1.11	0.00	1.11
17.60	1.05	0.97	1.07	1.11	0.00	1.11
17.65	1.03	0.97	1.06	1.11	0.00	1.11
17.70	1.07	0.98	1.10	1.11	0.00	1.11
17.75	1.10	0.98	1.13	1.11	0.00	1.11
17.80	1.04	0.98	1.07	1.11	0.00	1.11
17.85	1.00	0.98	1.02	1.11	0.00	1.11
17.90	1.06	0.98	1.08	1.11	0.00	1.11
17.95	1.40	0.98	1.44	1.11	0.00	1.11
18.00	1.37	0.98	1.40	1.11	0.00	1.11
18.05	2.00	0.98	5.00	1.11	0.00	1.11
18.10	2.00	0.98	5.00	1.11	0.00	1.11
18.15	2.00	0.98	5.00	1.11	0.00	1.11
18.20	2.00	0.98	5.00	1.11	0.00	1.11
18.25	2.00	0.98	5.00	1.11	0.00	1.11
18.30	2.00	0.98	5.00	1.11	0.00	1.11
18.35	2.00	0.98	5.00	1.11	0.00	1.11
18.40	2.00	0.98	5.00	1.11	0.00	1.11
18.45	2.00	0.98	5.00	1.11	0.00	1.11
18.50	2.00	0.98	5.00	1.11	0.00	1.11
18.55	2.00	0.98	5.00	1.11	0.00	1.11
18.60	2.00	0.98	5.00	1.11	0.00	1.11
18.65	2.00	0.99	5.00	1.11	0.00	1.11
18.70	2.00	0.99	5.00	1.11	0.00	1.11

18.75	2.00	0.99	5.00	1.11	0.00	1.11
18.80	2.00	0.99	5.00	1.11	0.00	1.11
18.85	2.00	0.99	5.00	1.11	0.00	1.11
18.90	2.00	0.99	5.00	1.11	0.00	1.11
18.95	2.00	0.99	5.00	1.11	0.00	1.11
19.00	2.00	0.99	5.00	1.11	0.00	1.11
19.05	2.00	0.99	5.00	1.11	0.00	1.11
19.10	2.00	0.99	5.00	1.11	0.00	1.11
19.15	2.00	0.99	5.00	1.11	0.00	1.11
19.20	2.00	0.99	5.00	1.11	0.00	1.11
19.25	2.00	0.99	5.00	1.11	0.00	1.11
19.30	2.00	0.99	5.00	1.11	0.00	1.11
19.35	2.00	0.99	5.00	1.11	0.00	1.11
19.40	2.00	0.99	5.00	1.11	0.00	1.11
19.45	2.00	0.99	5.00	1.11	0.00	1.11
19.50	2.00	0.99	5.00	1.11	0.00	1.11
19.55	2.00	0.99	5.00	1.11	0.00	1.11
19.60	2.00	0.99	5.00	1.11	0.00	1.11
19.65	2.00	1.00	5.00	1.11	0.00	1.11
19.70	2.00	1.00	5.00	1.11	0.00	1.11
19.75	2.00	1.00	5.00	1.11	0.00	1.11
19.80	2.00	1.00	5.00	1.11	0.00	1.11
19.85	2.00	1.00	5.00	1.11	0.00	1.11
19.90	2.00	1.00	5.00	1.11	0.00	1.11
19.95	2.00	1.00	5.00	1.11	0.00	1.11
20.00	1.48	1.00	1.49	1.11	0.00	1.11
20.05	1.41	1.00	1.42	1.11	0.00	1.11
20.10	1.49	1.00	1.49	1.11	0.00	1.11
20.15	1.48	1.00	1.49	1.11	0.00	1.11
20.20	1.50	1.00	1.50	1.11	0.00	1.11
20.25	1.32	1.00	1.32	1.11	0.00	1.11
20.30	1.14	1.00	1.14	1.11	0.00	1.11
20.35	0.99	1.00	0.99*	1.11	0.00	1.11
20.40	0.87	1.00	0.87*	1.11	0.00	1.11
20.45	0.76	1.00	0.76*	1.11	0.00	1.11
20.50	0.65	1.00	0.65*	1.11	0.00	1.11
20.55	0.55	1.00	0.55*	1.11	0.00	1.11
20.60	0.44	1.00	0.44*	1.11	0.00	1.11
20.65	0.34	1.00	0.33*	1.11	0.00	1.11
20.70	0.26	1.00	0.26*	1.11	0.00	1.11
20.75	0.21	1.00	0.21*	1.10	0.00	1.10
20.80	0.18	1.00	0.18*	1.09	0.00	1.09
20.85	0.17	1.00	0.17*	1.08	0.00	1.08
20.90	0.17	1.00	0.17*	1.07	0.00	1.07
20.95	0.17	1.00	0.17*	1.05	0.00	1.05
21.00	0.17	1.00	0.17*	1.04	0.00	1.04
21.05	0.18	1.00	0.18*	1.03	0.00	1.03
21.10	0.19	1.00	0.19*	1.02	0.00	1.02
21.15	0.20	1.01	0.20*	1.01	0.00	1.01
21.20	0.22	1.01	0.22*	1.00	0.00	1.00

21.25	0.23	1.01	0.23*	0.99	0.00	0.99
21.30	0.25	1.01	0.25*	0.98	0.00	0.98
21.35	0.27	1.01	0.27*	0.97	0.00	0.97
21.40	0.28	1.01	0.28*	0.96	0.00	0.96
21.45	0.28	1.01	0.28*	0.96	0.00	0.96
21.50	0.28	1.01	0.28*	0.95	0.00	0.95
21.55	0.27	1.01	0.26*	0.94	0.00	0.94
21.60	0.24	1.01	0.24*	0.94	0.00	0.94
21.65	0.21	1.01	0.20*	0.93	0.00	0.93
21.70	0.18	1.01	0.18*	0.92	0.00	0.92
21.75	0.17	1.01	0.17*	0.90	0.00	0.90
21.80	0.16	1.01	0.16*	0.89	0.00	0.89
21.85	0.16	1.01	0.16*	0.88	0.00	0.88
21.90	0.16	1.01	0.16*	0.87	0.00	0.87
21.95	0.16	1.01	0.16*	0.85	0.00	0.85
22.00	0.16	1.01	0.16*	0.84	0.00	0.84
22.05	0.17	1.01	0.17*	0.83	0.00	0.83
22.10	0.19	1.01	0.18*	0.82	0.00	0.82
22.15	0.22	1.01	0.21*	0.80	0.00	0.80
22.20	0.29	1.01	0.28*	0.80	0.00	0.80
22.25	0.51	1.01	0.50*	0.79	0.00	0.79
22.30	0.94	1.01	0.93*	0.79	0.00	0.79
22.35	2.00	1.01	5.00	0.79	0.00	0.79
22.40	2.00	1.01	5.00	0.79	0.00	0.79
22.45	2.00	1.01	5.00	0.79	0.00	0.79
22.50	2.00	1.01	5.00	0.79	0.00	0.79
22.55	2.00	1.01	5.00	0.79	0.00	0.79
22.60	2.00	1.01	5.00	0.79	0.00	0.79
22.65	2.00	1.01	5.00	0.79	0.00	0.79
22.70	2.00	1.01	5.00	0.79	0.00	0.79
22.75	2.00	1.01	5.00	0.79	0.00	0.79
22.80	2.00	1.01	5.00	0.79	0.00	0.79
22.85	2.00	1.01	5.00	0.79	0.00	0.79
22.90	2.00	1.01	5.00	0.79	0.00	0.79
22.95	2.00	1.01	5.00	0.79	0.00	0.79
23.00	2.00	1.01	5.00	0.79	0.00	0.79
23.05	2.00	1.01	5.00	0.79	0.00	0.79
23.10	2.00	1.01	5.00	0.79	0.00	0.79
23.15	2.00	1.01	5.00	0.79	0.00	0.79
23.20	2.00	1.02	5.00	0.79	0.00	0.79
23.25	2.00	1.02	5.00	0.79	0.00	0.79
23.30	2.00	1.02	5.00	0.79	0.00	0.79
23.35	2.00	1.02	5.00	0.79	0.00	0.79
23.40	2.00	1.02	5.00	0.79	0.00	0.79
23.45	2.00	1.02	5.00	0.79	0.00	0.79
23.50	2.00	1.02	5.00	0.79	0.00	0.79
23.55	2.00	1.02	5.00	0.79	0.00	0.79
23.60	2.00	1.02	5.00	0.79	0.00	0.79
23.65	2.00	1.02	5.00	0.79	0.00	0.79
23.70	2.00	1.02	5.00	0.79	0.00	0.79

23.75	2.00	1.02	5.00	0.79	0.00	0.79
23.80	2.00	1.02	5.00	0.79	0.00	0.79
23.85	2.00	1.02	5.00	0.79	0.00	0.79
23.90	2.00	1.02	5.00	0.79	0.00	0.79
23.95	2.00	1.02	5.00	0.79	0.00	0.79
24.00	2.00	1.02	5.00	0.79	0.00	0.79
24.05	2.00	1.02	5.00	0.79	0.00	0.79
24.10	2.00	1.02	5.00	0.79	0.00	0.79
24.15	2.00	1.02	5.00	0.79	0.00	0.79
24.20	2.00	1.02	5.00	0.79	0.00	0.79
24.25	2.00	1.02	5.00	0.79	0.00	0.79
24.30	2.00	1.02	5.00	0.79	0.00	0.79
24.35	2.00	1.02	5.00	0.79	0.00	0.79
24.40	0.78	1.02	0.76*	0.79	0.00	0.79
24.45	0.37	1.02	0.36*	0.79	0.00	0.79
24.50	0.32	1.02	0.31*	0.79	0.00	0.79
24.55	0.37	1.02	0.36*	0.79	0.00	0.79
24.60	0.48	1.02	0.47*	0.78	0.00	0.78
24.65	0.61	1.02	0.59*	0.78	0.00	0.78
24.70	0.71	1.02	0.70*	0.78	0.00	0.78
24.75	0.77	1.02	0.76*	0.78	0.00	0.78
24.80	0.78	1.02	0.77*	0.78	0.00	0.78
24.85	0.74	1.02	0.72*	0.78	0.00	0.78
24.90	0.68	1.02	0.66*	0.78	0.00	0.78
24.95	0.62	1.02	0.60*	0.78	0.00	0.78
25.00	0.56	1.02	0.55*	0.78	0.00	0.78
25.05	0.52	1.02	0.51*	0.78	0.00	0.78
25.10	0.48	1.02	0.47*	0.78	0.00	0.78
25.15	0.43	1.02	0.42*	0.78	0.00	0.78
25.20	0.38	1.02	0.37*	0.77	0.00	0.77
25.25	0.35	1.02	0.34*	0.76	0.00	0.76
25.30	0.32	1.02	0.31*	0.76	0.00	0.76
25.35	0.30	1.02	0.29*	0.75	0.00	0.75
25.40	0.29	1.02	0.28*	0.74	0.00	0.74
25.45	0.27	1.02	0.27*	0.73	0.00	0.73
25.50	0.26	1.02	0.25*	0.72	0.00	0.72
25.55	0.25	1.02	0.24*	0.71	0.00	0.71
25.60	0.24	1.02	0.23*	0.70	0.00	0.70
25.65	0.22	1.02	0.21*	0.68	0.00	0.68
25.70	0.20	1.03	0.20*	0.67	0.00	0.67
25.75	0.19	1.03	0.18*	0.66	0.00	0.66
25.80	0.18	1.03	0.18*	0.65	0.00	0.65
25.85	0.18	1.03	0.18*	0.64	0.00	0.64
25.90	0.18	1.03	0.17*	0.62	0.00	0.62
25.95	0.18	1.03	0.18*	0.61	0.00	0.61
26.00	0.19	1.03	0.18*	0.60	0.00	0.60
26.05	0.20	1.03	0.20*	0.59	0.00	0.59
26.10	0.24	1.03	0.23*	0.58	0.00	0.58
26.15	0.36	1.03	0.35*	0.57	0.00	0.57
26.20	2.00	1.03	5.00	0.57	0.00	0.57

26.25	2.00	1.03	5.00	0.57	0.00	0.57
26.30	2.00	1.03	5.00	0.57	0.00	0.57
26.35	2.00	1.03	5.00	0.57	0.00	0.57
26.40	2.00	1.03	5.00	0.57	0.00	0.57
26.45	2.00	1.03	5.00	0.57	0.00	0.57
26.50	2.00	1.03	5.00	0.57	0.00	0.57
26.55	2.00	1.03	5.00	0.57	0.00	0.57
26.60	2.00	1.03	5.00	0.57	0.00	0.57
26.65	2.00	1.03	5.00	0.57	0.00	0.57
26.70	2.00	1.03	5.00	0.57	0.00	0.57
26.75	2.00	1.03	5.00	0.57	0.00	0.57
26.80	2.00	1.03	5.00	0.57	0.00	0.57
26.85	2.00	1.03	5.00	0.57	0.00	0.57
26.90	2.00	1.03	5.00	0.57	0.00	0.57
26.95	2.00	1.03	5.00	0.57	0.00	0.57
27.00	2.00	1.03	5.00	0.57	0.00	0.57
27.05	2.00	1.03	5.00	0.57	0.00	0.57
27.10	2.00	1.03	5.00	0.57	0.00	0.57
27.15	2.00	1.03	5.00	0.57	0.00	0.57
27.20	2.00	1.03	5.00	0.57	0.00	0.57
27.25	2.00	1.03	5.00	0.57	0.00	0.57
27.30	2.00	1.03	5.00	0.57	0.00	0.57
27.35	2.00	1.03	5.00	0.57	0.00	0.57
27.40	2.00	1.03	5.00	0.57	0.00	0.57
27.45	2.00	1.03	5.00	0.57	0.00	0.57
27.50	2.00	1.03	5.00	0.57	0.00	0.57
27.55	2.00	1.03	5.00	0.57	0.00	0.57
27.60	2.00	1.03	5.00	0.57	0.00	0.57
27.65	2.00	1.03	5.00	0.57	0.00	0.57
27.70	2.00	1.03	5.00	0.57	0.00	0.57
27.75	2.00	1.03	5.00	0.57	0.00	0.57
27.80	2.00	1.03	5.00	0.57	0.00	0.57
27.85	2.00	1.03	5.00	0.57	0.00	0.57
27.90	2.00	1.03	5.00	0.57	0.00	0.57
27.95	2.00	1.03	5.00	0.57	0.00	0.57
28.00	2.00	1.03	5.00	0.57	0.00	0.57
28.05	2.00	1.03	5.00	0.57	0.00	0.57
28.10	2.00	1.03	5.00	0.57	0.00	0.57
28.15	2.00	1.03	5.00	0.57	0.00	0.57
28.20	2.00	1.03	5.00	0.57	0.00	0.57
28.25	2.00	1.03	5.00	0.57	0.00	0.57
28.30	2.00	1.03	5.00	0.57	0.00	0.57
28.35	2.00	1.04	5.00	0.57	0.00	0.57
28.40	2.00	1.04	5.00	0.57	0.00	0.57
28.45	2.00	1.04	5.00	0.57	0.00	0.57
28.50	2.00	1.04	5.00	0.57	0.00	0.57
28.55	2.00	1.04	5.00	0.57	0.00	0.57
28.60	2.00	1.04	5.00	0.57	0.00	0.57
28.65	2.00	1.04	5.00	0.57	0.00	0.57
28.70	2.00	1.04	5.00	0.57	0.00	0.57

28.75	2.00	1.04	5.00	0.57	0.00	0.57
28.80	2.00	1.04	5.00	0.57	0.00	0.57
28.85	2.00	1.04	5.00	0.57	0.00	0.57
28.90	2.00	1.04	5.00	0.57	0.00	0.57
28.95	2.00	1.04	5.00	0.57	0.00	0.57
29.00	2.00	1.04	5.00	0.57	0.00	0.57
29.05	2.00	1.04	5.00	0.57	0.00	0.57
29.10	2.00	1.04	5.00	0.57	0.00	0.57
29.15	2.00	1.04	5.00	0.57	0.00	0.57
29.20	2.00	1.04	5.00	0.57	0.00	0.57
29.25	2.00	1.04	5.00	0.57	0.00	0.57
29.30	2.00	1.04	5.00	0.57	0.00	0.57
29.35	2.00	1.04	5.00	0.57	0.00	0.57
29.40	2.00	1.04	5.00	0.57	0.00	0.57
29.45	2.00	1.04	5.00	0.57	0.00	0.57
29.50	2.00	1.04	5.00	0.57	0.00	0.57
29.55	2.00	1.04	5.00	0.57	0.00	0.57
29.60	2.00	1.04	5.00	0.57	0.00	0.57
29.65	2.00	1.04	5.00	0.57	0.00	0.57
29.70	2.00	1.04	5.00	0.57	0.00	0.57
29.75	2.00	1.04	5.00	0.57	0.00	0.57
29.80	2.00	1.04	5.00	0.57	0.00	0.57
29.85	2.00	1.04	5.00	0.57	0.00	0.57
29.90	2.00	1.04	5.00	0.57	0.00	0.57
29.95	2.00	1.04	5.00	0.57	0.00	0.57
30.00	2.00	1.04	5.00	0.57	0.00	0.57
30.05	2.00	1.04	5.00	0.57	0.00	0.57
30.10	2.00	1.04	5.00	0.57	0.00	0.57
30.15	2.00	1.04	5.00	0.57	0.00	0.57
30.20	2.00	1.04	5.00	0.57	0.00	0.57
30.25	2.00	1.04	5.00	0.57	0.00	0.57
30.30	2.00	1.04	5.00	0.57	0.00	0.57
30.35	2.00	1.04	5.00	0.57	0.00	0.57
30.40	2.00	1.04	5.00	0.57	0.00	0.57
30.45	2.00	1.04	5.00	0.57	0.00	0.57
30.50	2.00	1.04	5.00	0.57	0.00	0.57
30.55	2.00	1.04	5.00	0.57	0.00	0.57
30.60	2.00	1.04	5.00	0.57	0.00	0.57
30.65	2.00	1.04	5.00	0.57	0.00	0.57
30.70	2.00	1.04	5.00	0.57	0.00	0.57
30.75	2.00	1.04	5.00	0.57	0.00	0.57
30.80	2.00	1.04	5.00	0.57	0.00	0.57
30.85	2.00	1.04	5.00	0.57	0.00	0.57
30.90	2.00	1.04	5.00	0.57	0.00	0.57
30.95	2.00	1.03	5.00	0.57	0.00	0.57
31.00	2.00	1.03	5.00	0.57	0.00	0.57
31.05	2.00	1.03	5.00	0.57	0.00	0.57
31.10	2.00	1.03	5.00	0.57	0.00	0.57
31.15	2.00	1.03	5.00	0.57	0.00	0.57
31.20	2.00	1.03	5.00	0.57	0.00	0.57

31.25	2.00	1.03	5.00	0.57	0.00	0.57
31.30	2.00	1.03	5.00	0.57	0.00	0.57
31.35	2.00	1.03	5.00	0.57	0.00	0.57
31.40	2.00	1.03	5.00	0.57	0.00	0.57
31.45	2.00	1.03	5.00	0.57	0.00	0.57
31.50	2.00	1.03	5.00	0.57	0.00	0.57
31.55	2.00	1.03	5.00	0.57	0.00	0.57
31.60	2.00	1.03	5.00	0.57	0.00	0.57
31.65	2.00	1.03	5.00	0.57	0.00	0.57
31.70	2.00	1.03	5.00	0.57	0.00	0.57
31.75	2.00	1.03	5.00	0.57	0.00	0.57
31.80	2.00	1.03	5.00	0.57	0.00	0.57
31.85	2.00	1.03	5.00	0.57	0.00	0.57
31.90	2.00	1.03	5.00	0.57	0.00	0.57
31.95	2.00	1.03	5.00	0.57	0.00	0.57
32.00	2.00	1.03	5.00	0.57	0.00	0.57
32.05	2.00	1.03	5.00	0.57	0.00	0.57
32.10	2.00	1.03	5.00	0.57	0.00	0.57
32.15	2.00	1.03	5.00	0.57	0.00	0.57
32.20	2.00	1.03	5.00	0.57	0.00	0.57
32.25	2.00	1.03	5.00	0.57	0.00	0.57
32.30	2.00	1.03	5.00	0.57	0.00	0.57
32.35	2.00	1.03	5.00	0.57	0.00	0.57
32.40	2.00	1.03	5.00	0.57	0.00	0.57
32.45	2.00	1.03	5.00	0.57	0.00	0.57
32.50	2.00	1.03	5.00	0.57	0.00	0.57
32.55	2.00	1.03	5.00	0.57	0.00	0.57
32.60	2.00	1.03	5.00	0.57	0.00	0.57
32.65	2.00	1.03	5.00	0.57	0.00	0.57
32.70	2.00	1.03	5.00	0.57	0.00	0.57
32.75	2.00	1.03	5.00	0.57	0.00	0.57
32.80	2.00	1.03	5.00	0.57	0.00	0.57
32.85	2.00	1.02	5.00	0.57	0.00	0.57
32.90	2.00	1.02	5.00	0.57	0.00	0.57
32.95	2.00	1.02	5.00	0.57	0.00	0.57
33.00	2.00	1.02	5.00	0.57	0.00	0.57
33.05	2.00	1.02	5.00	0.57	0.00	0.57
33.10	2.00	1.02	5.00	0.57	0.00	0.57
33.15	2.00	1.02	5.00	0.57	0.00	0.57
33.20	2.00	1.02	5.00	0.57	0.00	0.57
33.25	2.00	1.02	5.00	0.57	0.00	0.57
33.30	2.00	1.02	5.00	0.57	0.00	0.57
33.35	2.00	1.02	5.00	0.57	0.00	0.57
33.40	2.00	1.02	5.00	0.57	0.00	0.57
33.45	2.00	1.02	5.00	0.57	0.00	0.57
33.50	2.00	1.02	5.00	0.57	0.00	0.57
33.55	2.00	1.02	5.00	0.57	0.00	0.57
33.60	2.00	1.02	5.00	0.57	0.00	0.57
33.65	2.00	1.02	5.00	0.57	0.00	0.57
33.70	2.00	1.02	5.00	0.57	0.00	0.57

33.75	2.00	1.02	5.00	0.57	0.00	0.57
33.80	2.00	1.02	5.00	0.57	0.00	0.57
33.85	2.00	1.02	5.00	0.57	0.00	0.57
33.90	2.00	1.02	5.00	0.57	0.00	0.57
33.95	2.00	1.02	5.00	0.57	0.00	0.57
34.00	2.00	1.02	5.00	0.57	0.00	0.57
34.05	2.00	1.02	5.00	0.57	0.00	0.57
34.10	2.00	1.02	5.00	0.57	0.00	0.57
34.15	2.00	1.02	5.00	0.57	0.00	0.57
34.20	2.00	1.02	5.00	0.57	0.00	0.57
34.25	2.00	1.02	5.00	0.57	0.00	0.57
34.30	2.00	1.02	5.00	0.57	0.00	0.57
34.35	2.00	1.02	5.00	0.57	0.00	0.57
34.40	2.00	1.02	5.00	0.57	0.00	0.57
34.45	2.00	1.02	5.00	0.57	0.00	0.57
34.50	2.00	1.02	5.00	0.57	0.00	0.57
34.55	2.00	1.01	5.00	0.57	0.00	0.57
34.60	2.00	1.01	5.00	0.57	0.00	0.57
34.65	2.00	1.01	5.00	0.57	0.00	0.57
34.70	2.00	1.01	5.00	0.57	0.00	0.57
34.75	2.00	1.01	5.00	0.57	0.00	0.57
34.80	2.00	1.01	5.00	0.57	0.00	0.57
34.85	2.00	1.01	5.00	0.57	0.00	0.57
34.90	2.00	1.01	5.00	0.57	0.00	0.57
34.95	2.00	1.01	5.00	0.57	0.00	0.57
35.00	2.00	1.01	5.00	0.57	0.00	0.57
35.05	0.70	1.01	0.69*	0.57	0.00	0.57
35.10	0.56	1.01	0.56*	0.57	0.00	0.57
35.15	0.48	1.01	0.47*	0.57	0.00	0.57
35.20	0.43	1.01	0.43*	0.57	0.00	0.57
35.25	0.40	1.01	0.40*	0.57	0.00	0.57
35.30	0.39	1.01	0.38*	0.57	0.00	0.57
35.35	0.37	1.01	0.37*	0.57	0.00	0.57
35.40	0.36	1.01	0.36*	0.57	0.00	0.57
35.45	0.36	1.01	0.35*	0.57	0.00	0.57
35.50	0.35	1.01	0.34*	0.57	0.00	0.57
35.55	0.33	1.01	0.32*	0.57	0.00	0.57
35.60	0.31	1.01	0.31*	0.57	0.00	0.57
35.65	0.30	1.01	0.29*	0.56	0.00	0.56
35.70	0.29	1.01	0.29*	0.55	0.00	0.55
35.75	0.29	1.01	0.29*	0.54	0.00	0.54
35.80	0.30	1.01	0.29*	0.53	0.00	0.53
35.85	0.30	1.01	0.30*	0.52	0.00	0.52
35.90	0.30	1.01	0.30*	0.51	0.00	0.51
35.95	0.31	1.01	0.31*	0.50	0.00	0.50
36.00	0.32	1.01	0.32*	0.49	0.00	0.49
36.05	0.33	1.01	0.32*	0.48	0.00	0.48
36.10	0.33	1.01	0.33*	0.47	0.00	0.47
36.15	0.33	1.01	0.33*	0.46	0.00	0.46
36.20	0.33	1.00	0.33*	0.46	0.00	0.46

36.25	0.33	1.00	0.33*	0.45	0.00	0.45
36.30	0.34	1.00	0.34*	0.44	0.00	0.44
36.35	0.34	1.00	0.34*	0.43	0.00	0.43
36.40	0.34	1.00	0.34*	0.42	0.00	0.42
36.45	0.34	1.00	0.34*	0.41	0.00	0.41
36.50	0.33	1.00	0.33*	0.40	0.00	0.40
36.55	0.33	1.00	0.33*	0.40	0.00	0.40
36.60	0.32	1.00	0.32*	0.39	0.00	0.39
36.65	0.32	1.00	0.32*	0.38	0.00	0.38
36.70	0.32	1.00	0.32*	0.37	0.00	0.37
36.75	0.32	1.00	0.31*	0.36	0.00	0.36
36.80	0.31	1.00	0.31*	0.35	0.00	0.35
36.85	0.31	1.00	0.31*	0.35	0.00	0.35
36.90	0.30	1.00	0.30*	0.34	0.00	0.34
36.95	0.29	1.00	0.29*	0.33	0.00	0.33
37.00	0.28	1.00	0.28*	0.32	0.00	0.32
37.05	0.27	1.00	0.27*	0.31	0.00	0.31
37.10	0.26	1.00	0.26*	0.30	0.00	0.30
37.15	0.24	1.00	0.25*	0.29	0.00	0.29
37.20	0.24	1.00	0.24*	0.28	0.00	0.28
37.25	0.23	1.00	0.23*	0.27	0.00	0.27
37.30	0.23	1.00	0.23*	0.26	0.00	0.26
37.35	0.23	1.00	0.23*	0.25	0.00	0.25
37.40	0.23	1.00	0.23*	0.24	0.00	0.24
37.45	0.23	1.00	0.23*	0.23	0.00	0.23
37.50	0.24	1.00	0.24*	0.23	0.00	0.23
37.55	0.25	1.00	0.25*	0.22	0.00	0.22
37.60	0.29	1.00	0.29*	0.21	0.00	0.21
37.65	0.39	1.00	0.39*	0.21	0.00	0.21
37.70	2.00	1.00	5.00	0.21	0.00	0.21
37.75	2.00	0.99	5.00	0.21	0.00	0.21
37.80	2.00	0.99	5.00	0.21	0.00	0.21
37.85	2.00	0.99	5.00	0.21	0.00	0.21
37.90	2.00	0.99	5.00	0.21	0.00	0.21
37.95	2.00	0.99	5.00	0.21	0.00	0.21
38.00	2.00	0.99	5.00	0.21	0.00	0.21
38.05	2.00	0.99	5.00	0.21	0.00	0.21
38.10	2.00	0.99	5.00	0.21	0.00	0.21
38.15	2.00	0.99	5.00	0.21	0.00	0.21
38.20	2.00	0.99	5.00	0.21	0.00	0.21
38.25	2.00	0.99	5.00	0.21	0.00	0.21
38.30	2.00	0.99	5.00	0.21	0.00	0.21
38.35	2.00	0.99	5.00	0.21	0.00	0.21
38.40	2.00	0.99	5.00	0.21	0.00	0.21
38.45	2.00	0.99	5.00	0.21	0.00	0.21
38.50	2.00	0.99	5.00	0.21	0.00	0.21
38.55	2.00	0.99	5.00	0.21	0.00	0.21
38.60	2.00	0.99	5.00	0.21	0.00	0.21
38.65	2.00	0.99	5.00	0.21	0.00	0.21
38.70	2.00	0.99	5.00	0.21	0.00	0.21

38.75	2.00	0.99	5.00	0.21	0.00	0.21
38.80	2.00	0.99	5.00	0.21	0.00	0.21
38.85	2.00	0.99	5.00	0.21	0.00	0.21
38.90	2.00	0.99	5.00	0.21	0.00	0.21
38.95	2.00	0.99	5.00	0.21	0.00	0.21
39.00	2.00	0.99	5.00	0.21	0.00	0.21
39.05	2.00	0.99	5.00	0.21	0.00	0.21
39.10	2.00	0.99	5.00	0.21	0.00	0.21
39.15	2.00	0.99	5.00	0.21	0.00	0.21
39.20	2.00	0.99	5.00	0.21	0.00	0.21
39.25	2.00	0.98	5.00	0.21	0.00	0.21
39.30	2.00	0.98	5.00	0.21	0.00	0.21
39.35	2.00	0.98	5.00	0.21	0.00	0.21
39.40	2.00	0.98	5.00	0.21	0.00	0.21
39.45	2.00	0.98	5.00	0.21	0.00	0.21
39.50	2.00	0.98	5.00	0.21	0.00	0.21
39.55	2.00	0.98	5.00	0.21	0.00	0.21
39.60	2.00	0.98	5.00	0.21	0.00	0.21
39.65	2.00	0.98	5.00	0.21	0.00	0.21
39.70	2.00	0.98	5.00	0.21	0.00	0.21
39.75	2.00	0.98	5.00	0.21	0.00	0.21
39.80	2.00	0.98	5.00	0.21	0.00	0.21
39.85	0.40	0.98	0.41*	0.21	0.00	0.21
39.90	0.31	0.98	0.32*	0.21	0.00	0.21
39.95	0.24	0.98	0.25*	0.21	0.00	0.21
40.00	0.20	0.98	0.20*	0.20	0.00	0.20
40.05	0.18	0.98	0.18*	0.19	0.00	0.19
40.10	0.16	0.98	0.17*	0.18	0.00	0.18
40.15	0.16	0.98	0.16*	0.17	0.00	0.17
40.20	0.16	0.98	0.16*	0.15	0.00	0.15
40.25	0.17	0.98	0.17*	0.14	0.00	0.14
40.30	0.18	0.98	0.19*	0.13	0.00	0.13
40.35	0.21	0.98	0.21*	0.12	0.00	0.12
40.40	0.25	0.98	0.25*	0.11	0.00	0.11
40.45	0.31	0.98	0.31*	0.10	0.00	0.10
40.50	0.41	0.98	0.42*	0.10	0.00	0.10
40.55	0.53	0.98	0.54*	0.10	0.00	0.10
40.60	0.55	0.98	0.56*	0.10	0.00	0.10
40.65	0.46	0.98	0.47*	0.10	0.00	0.10
40.70	0.37	0.97	0.38*	0.10	0.00	0.10
40.75	0.35	0.97	0.36*	0.10	0.00	0.10
40.80	0.36	0.97	0.36*	0.09	0.00	0.09
40.85	0.36	0.97	0.37*	0.09	0.00	0.09
40.90	0.37	0.97	0.38*	0.08	0.00	0.08
40.95	0.38	0.97	0.39*	0.07	0.00	0.07
41.00	0.40	0.97	0.41*	0.07	0.00	0.07
41.05	0.41	0.97	0.42*	0.06	0.00	0.06
41.10	0.41	0.97	0.42*	0.05	0.00	0.05
41.15	0.40	0.97	0.42*	0.05	0.00	0.05
41.20	0.39	0.97	0.40*	0.04	0.00	0.04

41.25	0.41	0.97	0.42*	0.03	0.00	0.03
41.30	0.43	0.97	0.44*	0.03	0.00	0.03
41.35	0.44	0.97	0.45*	0.02	0.00	0.02
41.40	0.44	0.97	0.45*	0.02	0.00	0.02
41.45	0.45	0.97	0.47*	0.02	0.00	0.02
41.50	0.47	0.97	0.49*	0.02	0.00	0.02
41.55	0.49	0.97	0.51*	0.02	0.00	0.02
41.60	0.51	0.97	0.52*	0.02	0.00	0.02
41.65	0.52	0.97	0.54*	0.02	0.00	0.02
41.70	0.56	0.97	0.58*	0.02	0.00	0.02
41.75	0.64	0.97	0.66*	0.02	0.00	0.02
41.80	0.73	0.97	0.76*	0.02	0.00	0.02
41.85	0.83	0.97	0.86*	0.02	0.00	0.02
41.90	0.89	0.97	0.92*	0.02	0.00	0.02
41.95	0.91	0.97	0.94*	0.02	0.00	0.02
42.00	0.94	0.97	0.98*	0.02	0.00	0.02
42.05	0.99	0.97	1.02	0.02	0.00	0.02
42.10	1.04	0.96	1.08	0.02	0.00	0.02
42.15	1.09	0.96	1.13	0.02	0.00	0.02
42.20	1.15	0.96	1.19	0.02	0.00	0.02
42.25	1.19	0.96	1.23	0.02	0.00	0.02
42.30	1.23	0.96	1.28	0.02	0.00	0.02
42.35	1.27	0.96	1.31	0.02	0.00	0.02
42.40	1.30	0.96	1.35	0.02	0.00	0.02
42.45	1.31	0.96	1.37	0.02	0.00	0.02
42.50	1.34	0.96	1.40	0.02	0.00	0.02
42.55	1.38	0.96	1.44	0.02	0.00	0.02
42.60	1.44	0.96	1.50	0.02	0.00	0.02
42.65	1.51	0.96	1.57	0.02	0.00	0.02
42.70	1.58	0.96	1.64	0.02	0.00	0.02
42.75	1.64	0.96	1.71	0.02	0.00	0.02
42.80	1.70	0.96	1.77	0.02	0.00	0.02
42.85	1.73	0.96	1.80	0.02	0.00	0.02
42.90	1.77	0.96	1.84	0.02	0.00	0.02
42.95	1.79	0.96	1.87	0.02	0.00	0.02
43.00	1.79	0.96	1.87	0.02	0.00	0.02
43.05	1.77	0.96	1.85	0.02	0.00	0.02
43.10	1.73	0.96	1.81	0.02	0.00	0.02
43.15	1.70	0.96	1.77	0.02	0.00	0.02
43.20	1.65	0.96	1.72	0.02	0.00	0.02
43.25	1.59	0.96	1.66	0.02	0.00	0.02
43.30	1.54	0.96	1.61	0.02	0.00	0.02
43.35	1.46	0.96	1.53	0.02	0.00	0.02
43.40	1.34	0.96	1.41	0.02	0.00	0.02
43.45	1.38	0.95	1.45	0.02	0.00	0.02
43.50	1.36	0.95	1.42	0.02	0.00	0.02
43.55	1.33	0.95	1.39	0.02	0.00	0.02
43.60	1.39	0.95	1.46	0.02	0.00	0.02
43.65	1.46	0.95	1.53	0.02	0.00	0.02
43.70	1.49	0.95	1.56	0.02	0.00	0.02

43.75	1.26	0.95	1.32	0.02	0.00	0.02
43.80	1.23	0.95	1.29	0.02	0.00	0.02
43.85	1.37	0.95	1.44	0.02	0.00	0.02
43.90	1.41	0.95	1.48	0.02	0.00	0.02
43.95	1.49	0.95	1.56	0.02	0.00	0.02
44.00	1.51	0.95	1.59	0.02	0.00	0.02
44.05	1.52	0.95	1.60	0.02	0.00	0.02
44.10	1.63	0.95	1.72	0.02	0.00	0.02
44.15	1.71	0.95	1.80	0.02	0.00	0.02
44.20	1.76	0.95	1.86	0.02	0.00	0.02
44.25	1.80	0.95	1.90	0.02	0.00	0.02
44.30	1.82	0.95	1.92	0.02	0.00	0.02
44.35	1.86	0.95	1.96	0.02	0.00	0.02
44.40	1.86	0.95	1.97	0.02	0.00	0.02
44.45	1.84	0.95	1.94	0.02	0.00	0.02
44.50	1.80	0.95	1.90	0.02	0.00	0.02
44.55	1.74	0.95	1.84	0.02	0.00	0.02
44.60	1.68	0.95	1.78	0.02	0.00	0.02
44.65	1.62	0.95	1.71	0.02	0.00	0.02
44.70	1.56	0.95	1.65	0.02	0.00	0.02
44.75	1.48	0.94	1.57	0.02	0.00	0.02
44.80	1.40	0.94	1.48	0.02	0.00	0.02
44.85	1.32	0.94	1.39	0.02	0.00	0.02
44.90	1.24	0.94	1.32	0.02	0.00	0.02
44.95	1.17	0.94	1.25	0.02	0.00	0.02
45.00	1.11	0.94	1.17	0.02	0.00	0.02
45.05	1.04	0.94	1.11	0.02	0.00	0.02
45.10	0.98	0.94	1.04	0.02	0.00	0.02
45.15	0.92	0.94	0.98*	0.02	0.00	0.02
45.20	0.87	0.94	0.92*	0.02	0.00	0.02
45.25	0.82	0.94	0.87*	0.02	0.00	0.02
45.30	0.77	0.94	0.82*	0.02	0.00	0.02
45.35	0.72	0.94	0.77*	0.02	0.00	0.02
45.40	0.68	0.94	0.73*	0.02	0.00	0.02
45.45	0.66	0.94	0.70*	0.02	0.00	0.02
45.50	0.64	0.94	0.68*	0.02	0.00	0.02
45.55	0.60	0.94	0.64*	0.02	0.00	0.02
45.60	0.51	0.94	0.55*	0.02	0.00	0.02
45.65	0.55	0.94	0.59*	0.02	0.00	0.02
45.70	0.61	0.94	0.65*	0.02	0.00	0.02
45.75	0.59	0.94	0.63*	0.02	0.00	0.02
45.80	0.56	0.94	0.59*	0.02	0.00	0.02
45.85	0.52	0.94	0.55*	0.02	0.00	0.02
45.90	0.47	0.94	0.50*	0.02	0.00	0.02
45.95	0.47	0.94	0.50*	0.02	0.00	0.02
46.00	0.43	0.94	0.45*	0.02	0.00	0.02
46.05	0.44	0.93	0.47*	0.02	0.00	0.02
46.10	0.49	0.93	0.52*	0.02	0.00	0.02
46.15	0.71	0.93	0.76*	0.02	0.00	0.02
46.20	2.00	0.93	5.00	0.02	0.00	0.02

46.25	2.00	0.93	5.00	0.02	0.00	0.02
46.30	2.00	0.93	5.00	0.02	0.00	0.02
46.35	2.00	0.93	5.00	0.02	0.00	0.02
46.40	2.00	0.93	5.00	0.02	0.00	0.02
46.45	2.00	0.93	5.00	0.02	0.00	0.02
46.50	2.00	0.93	5.00	0.02	0.00	0.02
46.55	2.00	0.93	5.00	0.02	0.00	0.02
46.60	2.00	0.93	5.00	0.02	0.00	0.02
46.65	2.00	0.93	5.00	0.02	0.00	0.02
46.70	2.00	0.93	5.00	0.02	0.00	0.02
46.75	2.00	0.93	5.00	0.02	0.00	0.02
46.80	2.00	0.93	5.00	0.02	0.00	0.02
46.85	2.00	0.93	5.00	0.02	0.00	0.02
46.90	2.00	0.93	5.00	0.02	0.00	0.02
46.95	2.00	0.93	5.00	0.02	0.00	0.02
47.00	2.00	0.93	5.00	0.02	0.00	0.02
47.05	2.00	0.93	5.00	0.02	0.00	0.02
47.10	2.00	0.93	5.00	0.02	0.00	0.02
47.15	2.00	0.93	5.00	0.02	0.00	0.02
47.20	2.00	0.93	5.00	0.02	0.00	0.02
47.25	2.00	0.93	5.00	0.02	0.00	0.02
47.30	2.00	0.92	5.00	0.02	0.00	0.02
47.35	2.00	0.92	5.00	0.02	0.00	0.02
47.40	2.00	0.92	5.00	0.02	0.00	0.02
47.45	2.00	0.92	5.00	0.02	0.00	0.02
47.50	2.00	0.92	5.00	0.02	0.00	0.02
47.55	2.00	0.92	5.00	0.02	0.00	0.02
47.60	2.00	0.92	5.00	0.02	0.00	0.02
47.65	2.00	0.92	5.00	0.02	0.00	0.02
47.70	2.00	0.92	5.00	0.02	0.00	0.02
47.75	2.00	0.92	5.00	0.02	0.00	0.02
47.80	2.00	0.92	5.00	0.02	0.00	0.02
47.85	2.00	0.92	5.00	0.02	0.00	0.02
47.90	2.00	0.92	5.00	0.02	0.00	0.02
47.95	2.00	0.92	5.00	0.02	0.00	0.02
48.00	2.00	0.92	5.00	0.02	0.00	0.02
48.05	2.00	0.92	5.00	0.02	0.00	0.02
48.10	2.00	0.92	5.00	0.02	0.00	0.02
48.15	2.00	0.92	5.00	0.02	0.00	0.02
48.20	2.00	0.92	5.00	0.02	0.00	0.02
48.25	2.00	0.92	5.00	0.02	0.00	0.02
48.30	2.00	0.92	5.00	0.02	0.00	0.02
48.35	2.00	0.92	5.00	0.02	0.00	0.02
48.40	2.00	0.92	5.00	0.02	0.00	0.02
48.45	2.00	0.92	5.00	0.02	0.00	0.02
48.50	2.00	0.92	5.00	0.02	0.00	0.02
48.55	2.00	0.91	5.00	0.02	0.00	0.02
48.60	2.00	0.91	5.00	0.02	0.00	0.02
48.65	2.00	0.91	5.00	0.02	0.00	0.02
48.70	2.00	0.91	5.00	0.02	0.00	0.02

48.75	2.00	0.91	5.00	0.02	0.00	0.02
48.80	2.00	0.91	5.00	0.02	0.00	0.02
48.85	2.00	0.91	5.00	0.02	0.00	0.02
48.90	2.00	0.91	5.00	0.02	0.00	0.02
48.95	2.00	0.91	5.00	0.02	0.00	0.02
49.00	2.00	0.91	5.00	0.02	0.00	0.02
49.05	2.00	0.91	5.00	0.02	0.00	0.02
49.10	2.00	0.91	5.00	0.02	0.00	0.02
49.15	2.00	0.91	5.00	0.02	0.00	0.02
49.20	2.00	0.91	5.00	0.02	0.00	0.02
49.25	2.00	0.91	5.00	0.02	0.00	0.02
49.30	2.00	0.91	5.00	0.02	0.00	0.02
49.35	2.00	0.91	5.00	0.02	0.00	0.02
49.40	2.00	0.91	5.00	0.02	0.00	0.02
49.45	2.00	0.91	5.00	0.02	0.00	0.02
49.50	2.00	0.91	5.00	0.02	0.00	0.02
49.55	2.00	0.91	5.00	0.02	0.00	0.02
49.60	2.00	0.91	5.00	0.02	0.00	0.02
49.65	2.00	0.91	5.00	0.02	0.00	0.02
49.70	2.00	0.91	5.00	0.02	0.00	0.02
49.75	2.00	0.91	5.00	0.02	0.00	0.02
49.80	2.00	0.90	5.00	0.02	0.00	0.02
49.85	0.32	0.90	0.36*	0.02	0.00	0.02
49.90	0.09	0.90	0.10*	0.02	0.00	0.02
49.95	2.00	0.90	5.00	0.00	0.00	0.00
50.00	2.00	0.90	5.00	0.00	0.00	0.00

* F.S.<1, Liquefaction Potential Zone
(F.S. is limited to 5, CRR is limited to 2, CSR is limited to 2)

Units: Unit: qc, fs, Stress or Pressure = atm (1.0581tsf); Unit Weight = pcf; Depth = ft; Settlement = in.

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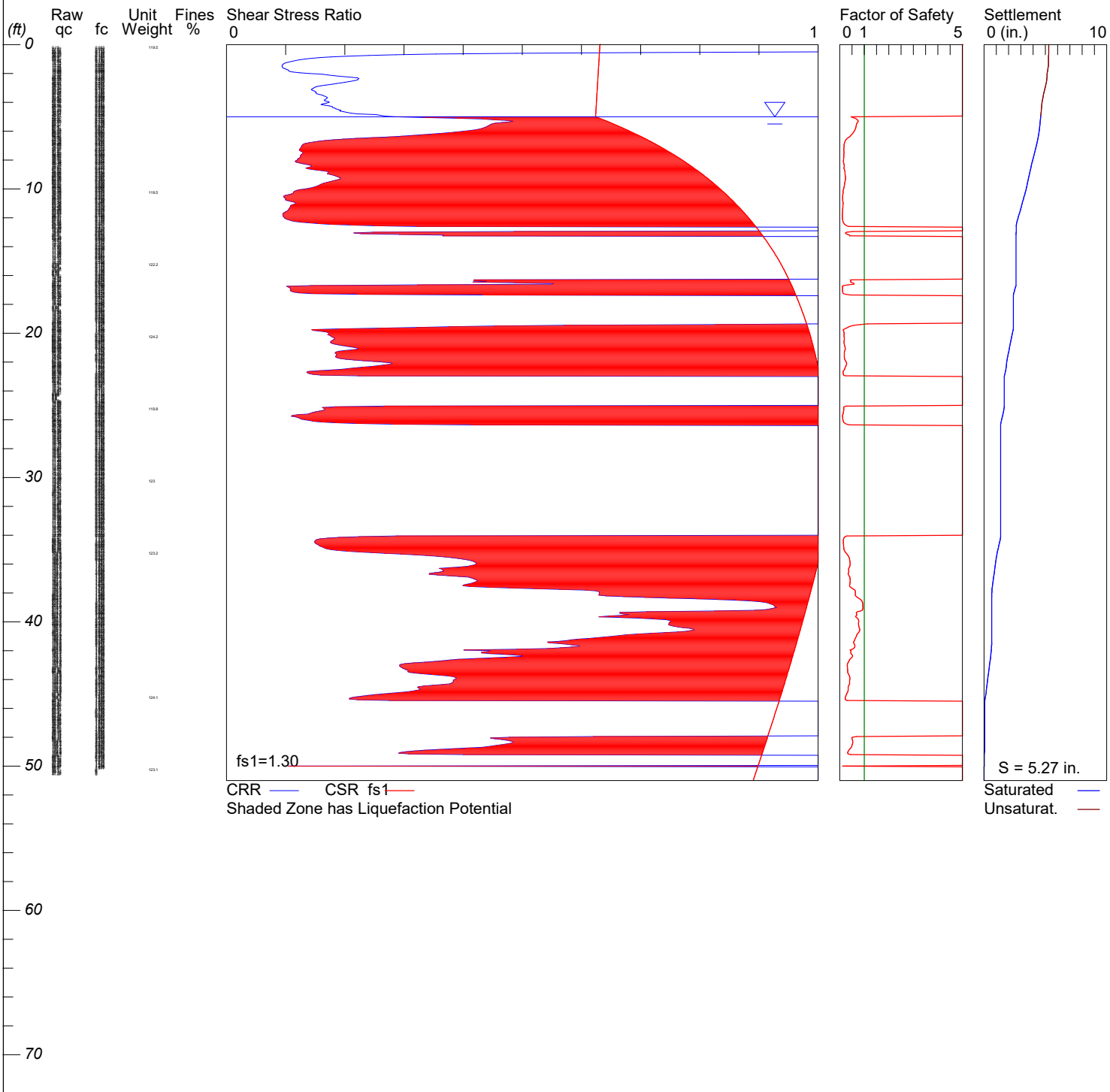
1 atm (atmosphere) = 1 tsf (ton/ft2)
CRRm Cyclic resistance ratio from soils
CSRsf Cyclic stress ratio induced by a given earthquake (with user request factor of safety)
F.S. Factor of Safety against liquefaction, F.S.=CRRm/CSRsf
S_sat Settlement from saturated sands
S_dry Settlement from Unsaturated Sands
S_all Total Settlement from Saturated and Unsaturated Sands
NoLiq No-Liquefy Soils

LIQUEFACTION ANALYSIS

Cypress

Hole No.=CPT-2 Water Depth=5 ft

Magnitude=7.5
Acceleration=.747g



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LIQUEFACTION ANALYSIS SUMMARY

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Input File Name: S:\PROJECTS\1000s GEOTECH PROJECTS\1-1209 Goodman Cypress\Calcs\Liquefaction\KYCPT2.liq
Title: Cypress
Subtitle: CPT-2

Surface Elev.=
Hole No.=CPT-2
Depth of Hole= 51.00 ft
Water Table during Earthquake= 5.00 ft
Water Table during In-Situ Testing= 7.00 ft
Max. Acceleration= 0.75 g
Earthquake Magnitude= 7.50

Input Data:
Surface Elev.=
Hole No.=CPT-2
Depth of Hole=51.00 ft
Water Table during Earthquake= 5.00 ft
Water Table during In-Situ Testing= 7.00 ft
Max. Acceleration=0.75 g
Earthquake Magnitude=7.50
No-Liquefiable Soils: CL, OL are Non-Liq. Soil

1. CPT Calculation Method: Modify Robertson*
2. Settlement Analysis Method: Ishihara / Yoshimine
3. Fines Correction for Liquefaction: Stark/Olson et al.*
4. Fine Correction for Settlement: During Liquefaction*
5. Settlement Calculation in: All zones*
9. User request factor of safety (apply to CSR) , User= 1.3
Plot one CSR curve (fs1=User)
10. Use Curve Smoothing: Yes*
* Recommended Options

In-Situ Test Data:

Depth	qc	fs	Rf	gamma	Fines	D50
ft	atm	atm	pcf	%	mm	

0.00	0.18	0.06	35.00	119.50	0.00	0.50
0.09	32.67	0.09	0.27	119.50	0.00	0.50
0.15	57.87	0.10	0.17	119.50	0.00	0.50
0.21	55.47	0.12	0.21	119.50	0.00	0.50
0.27	53.35	0.13	0.25	119.50	0.00	0.50
0.33	49.47	0.14	0.28	119.50	0.00	0.50
0.40	44.49	0.15	0.34	119.50	0.00	0.50
0.48	38.12	0.15	0.40	119.50	0.00	0.50
0.54	33.69	0.16	0.46	119.50	0.00	0.50
0.61	29.90	0.16	0.55	119.50	0.00	0.50
0.67	26.30	0.16	0.62	119.50	0.00	0.50
0.73	23.72	0.16	0.67	119.50	0.00	0.50
0.80	21.50	0.15	0.70	119.50	0.00	0.50
0.86	19.47	0.13	0.67	119.50	0.00	0.50
0.92	17.81	0.12	0.69	119.50	0.00	0.50
0.99	16.34	0.12	0.71	119.50	0.00	0.50
1.07	14.77	0.10	0.66	119.50	0.00	0.50
1.13	14.12	0.09	0.65	119.50	0.00	0.50
1.20	13.01	0.08	0.61	119.50	0.00	0.50
1.26	12.37	0.06	0.49	119.50	0.00	0.50
1.32	11.44	0.05	0.48	119.50	0.00	0.50
1.38	10.98	0.05	0.50	119.50	0.00	0.50
1.49	10.43	0.05	0.53	119.50	0.00	0.50
1.53	10.94	0.06	0.51	119.50	0.00	0.50
1.59	10.52	0.06	0.61	119.50	0.00	0.50
1.65	10.89	0.08	0.73	119.50	0.00	0.50
1.71	11.63	0.10	0.84	119.50	0.00	0.50
1.77	12.83	0.11	0.88	119.50	0.00	0.50
1.86	15.23	0.11	0.71	119.50	0.00	0.50
1.92	18.46	0.13	0.69	119.50	0.00	0.50
1.98	21.87	0.18	0.80	119.50	0.00	0.50
2.05	25.75	0.25	0.96	119.50	0.00	0.50
2.11	28.98	0.25	0.85	119.50	0.00	0.50
2.17	32.12	0.25	0.76	119.50	0.00	0.50
2.23	35.53	0.24	0.69	119.50	0.00	0.50
2.32	39.59	0.25	0.63	119.50	0.00	0.50
2.38	39.50	0.25	0.64	119.50	0.00	0.50
2.44	40.24	0.25	0.62	119.50	0.00	0.50
2.51	39.87	0.25	0.62	119.50	0.00	0.50
2.57	39.59	0.23	0.59	119.50	0.00	0.50
2.63	39.13	0.22	0.56	119.50	0.00	0.50
2.69	38.40	0.21	0.54	119.50	0.00	0.50
2.76	37.19	0.20	0.54	119.50	0.00	0.50
2.84	34.98	0.19	0.55	119.50	0.00	0.50
2.91	33.50	0.19	0.56	119.50	0.00	0.50
2.97	33.13	0.18	0.56	119.50	0.00	0.50
3.03	33.04	0.18	0.55	119.50	0.00	0.50
3.09	32.76	0.18	0.55	119.50	0.00	0.50
3.15	32.67	0.19	0.60	119.50	0.00	0.50
3.22	31.84	0.25	0.78	119.50	0.00	0.50

3.30	31.29	0.28	0.90	119.50	0.00	0.50
3.36	31.20	0.29	0.93	119.50	0.00	0.50
3.43	31.47	0.31	0.98	119.50	0.00	0.50
3.49	30.92	0.37	1.19	119.50	0.00	0.50
3.55	28.89	0.41	1.41	119.50	0.00	0.50
3.62	27.87	0.44	1.59	119.50	0.00	0.50
3.68	25.66	0.46	1.78	119.50	0.00	0.50
3.75	27.32	0.45	1.65	119.50	0.00	0.50
3.81	25.57	0.45	1.75	119.50	0.00	0.50
3.88	26.77	0.44	1.65	119.50	0.00	0.50
3.96	26.86	0.48	1.80	119.50	0.00	0.50
4.02	26.86	0.49	1.81	119.50	0.00	0.50
4.09	27.78	0.45	1.63	119.50	0.00	0.50
4.15	30.00	0.43	1.43	119.50	0.00	0.50
4.21	32.12	0.46	1.43	119.50	0.00	0.50
4.28	31.93	0.51	1.61	119.50	0.00	0.50
4.34	33.23	0.51	1.53	119.50	0.00	0.50
4.40	34.61	0.52	1.51	119.50	0.00	0.50
4.47	36.73	0.52	1.41	119.50	0.00	0.50
4.54	39.04	0.54	1.38	119.50	0.00	0.50
4.61	38.21	0.55	1.43	119.50	0.00	0.50
4.67	40.70	0.57	1.39	119.50	0.00	0.50
4.73	42.55	0.58	1.36	119.50	0.00	0.50
4.80	43.66	0.63	1.44	119.50	0.00	0.50
4.86	45.50	0.78	1.71	119.50	0.00	0.50
4.94	50.95	0.73	1.44	119.50	0.00	0.50
5.01	56.30	0.73	1.30	119.50	0.00	0.50
5.07	67.65	0.73	1.08	119.50	0.00	0.50
5.13	78.08	0.72	0.92	119.50	0.00	0.50
5.20	81.40	0.71	0.87	119.50	0.00	0.50
5.26	85.00	0.72	0.84	119.50	0.00	0.50
5.32	86.67	0.72	0.83	119.50	0.00	0.50
5.40	87.31	0.64	0.73	119.50	0.00	0.50
5.46	87.40	0.60	0.68	119.50	0.00	0.50
5.52	87.50	0.60	0.69	119.50	0.00	0.50
5.59	87.31	0.62	0.71	119.50	0.00	0.50
5.65	87.13	0.63	0.73	119.50	0.00	0.50
5.71	86.85	0.65	0.75	119.50	0.00	0.50
5.78	86.57	0.67	0.77	119.50	0.00	0.50
5.86	86.02	0.68	0.79	119.50	0.00	0.50
5.92	85.19	0.69	0.81	119.50	0.00	0.50
5.98	83.80	0.70	0.83	119.50	0.00	0.50
6.04	82.51	0.70	0.85	119.50	0.00	0.50
6.11	80.67	0.70	0.87	119.50	0.00	0.50
6.17	78.45	0.70	0.89	119.50	0.00	0.50
6.24	75.96	0.69	0.91	119.50	0.00	0.50
6.32	72.18	0.68	0.94	119.50	0.00	0.50
6.38	69.04	0.66	0.96	119.50	0.00	0.50
6.45	64.79	0.57	0.88	119.50	0.00	0.50
6.51	60.18	0.49	0.81	119.50	0.00	0.50

6.57	54.36	0.47	0.87	119.50	0.00	0.50
6.64	48.64	0.45	0.93	119.50	0.00	0.50
6.70	44.86	0.43	0.95	119.50	0.00	0.50
6.76	41.63	0.40	0.97	119.50	0.00	0.50
6.83	36.55	0.38	1.05	119.50	0.00	0.50
6.89	35.07	0.37	1.07	119.50	0.00	0.50
6.97	32.58	0.37	1.14	119.50	0.00	0.50
7.04	31.57	0.38	1.19	119.50	0.00	0.50
7.11	31.10	0.37	1.20	119.50	0.00	0.50
7.17	31.20	0.37	1.18	119.50	0.00	0.50
7.23	31.66	0.35	1.12	119.50	0.00	0.50
7.29	32.86	0.34	1.04	119.50	0.00	0.50
7.36	34.43	0.34	0.99	119.50	0.00	0.50
7.42	35.90	0.35	0.99	119.50	0.00	0.50
7.48	36.83	0.37	1.00	119.50	0.00	0.50
7.55	36.46	0.36	0.99	119.50	0.00	0.50
7.63	35.81	0.35	0.97	119.50	0.00	0.50
7.69	36.27	0.34	0.93	119.50	0.00	0.50
7.76	37.38	0.32	0.87	119.50	0.00	0.50
7.82	38.12	0.31	0.82	119.50	0.00	0.50
7.88	37.19	0.30	0.82	119.50	0.00	0.50
7.94	36.36	0.29	0.80	119.50	0.00	0.50
8.01	35.44	0.31	0.87	119.50	0.00	0.50
8.07	34.15	0.28	0.81	119.50	0.00	0.50
8.14	32.49	0.31	0.95	119.50	0.00	0.50
8.21	30.55	0.38	1.24	119.50	0.00	0.50
8.29	27.60	0.44	1.58	119.50	0.00	0.50
8.36	27.04	0.46	1.70	119.50	0.00	0.50
8.42	27.73	0.48	1.73	119.50	0.00	0.50
8.49	27.87	0.47	1.69	119.50	0.00	0.50
8.56	34.52	0.44	1.28	119.50	0.00	0.50
8.62	42.92	0.41	0.96	119.50	0.00	0.50
8.69	49.93	0.40	0.80	119.50	0.00	0.50
8.75	55.65	0.40	0.71	119.50	0.00	0.50
8.81	59.81	0.39	0.66	119.50	0.00	0.50
8.88	60.82	0.35	0.58	119.50	0.00	0.50
8.95	60.36	0.35	0.58	119.50	0.00	0.50
9.01	61.28	0.39	0.63	119.50	0.00	0.50
9.07	63.96	0.38	0.60	119.50	0.00	0.50
9.13	64.93	0.38	0.59	119.50	0.00	0.50
9.20	66.18	0.39	0.59	119.50	0.00	0.50
9.27	65.90	0.43	0.65	119.50	0.00	0.50
9.33	63.87	0.46	0.73	119.50	0.00	0.50
9.40	60.27	0.50	0.83	119.50	0.00	0.50
9.46	56.39	0.54	0.95	119.50	0.00	0.50
9.53	52.52	0.56	1.06	119.50	0.00	0.50
9.59	48.92	0.57	1.16	119.50	0.00	0.50
9.65	46.61	0.57	1.22	119.50	0.00	0.50
9.72	44.76	0.56	1.26	119.50	0.00	0.50
9.79	43.38	0.56	1.28	119.50	0.00	0.50

9.85	41.53	0.54	1.29	119.50	0.00	0.50
9.92	38.58	0.52	1.35	119.50	0.00	0.50
9.99	35.16	0.47	1.34	119.50	0.00	0.50
10.05	32.49	0.39	1.21	119.50	0.00	0.50
10.12	30.09	0.34	1.14	119.50	0.00	0.50
10.18	28.24	0.32	1.14	119.50	0.00	0.50
10.25	27.13	0.31	1.16	119.50	0.00	0.50
10.31	26.03	0.31	1.18	119.50	0.00	0.50
10.38	25.75	0.27	1.06	119.50	0.00	0.50
10.44	25.75	0.20	0.79	119.50	0.00	0.50
10.51	26.40	0.16	0.61	119.50	0.00	0.50
10.57	27.78	0.16	0.57	119.50	0.00	0.50
10.64	28.43	0.19	0.66	119.50	0.00	0.50
10.70	27.32	0.20	0.75	119.50	0.00	0.50
10.76	25.75	0.20	0.78	119.50	0.00	0.50
10.83	24.18	0.25	1.05	119.50	0.00	0.50
10.90	23.26	0.29	1.27	119.50	0.00	0.50
10.97	23.26	0.32	1.37	119.50	0.00	0.50
11.03	23.26	0.32	1.37	119.50	0.00	0.50
11.10	24.55	0.29	1.19	119.50	0.00	0.50
11.16	25.38	0.28	1.10	119.50	0.00	0.50
11.23	24.46	0.28	1.13	119.50	0.00	0.50
11.29	23.63	0.26	1.12	119.50	0.00	0.50
11.36	23.63	0.26	1.09	119.50	0.00	0.50
11.42	23.63	0.25	1.07	119.50	0.00	0.50
11.49	23.63	0.24	1.03	119.50	0.00	0.50
11.56	24.37	0.22	0.92	119.50	0.00	0.50
11.63	25.10	0.19	0.76	119.50	0.00	0.50
11.69	26.03	0.16	0.61	119.50	0.00	0.50
11.76	26.77	0.15	0.57	119.50	0.00	0.50
11.82	27.41	0.16	0.57	119.50	0.00	0.50
11.89	27.41	0.16	0.58	119.50	0.00	0.50
11.95	27.97	0.17	0.61	119.50	0.00	0.50
12.02	27.13	0.19	0.70	119.50	0.00	0.50
12.09	27.04	0.23	0.84	119.50	0.00	0.50
12.15	26.86	0.27	1.01	119.50	0.00	0.50
12.22	25.38	0.31	1.20	119.50	0.00	0.50
12.29	23.54	0.35	1.47	119.50	0.00	0.50
12.35	22.15	0.38	1.70	119.50	0.00	0.50
12.42	21.32	0.40	1.88	119.50	0.00	0.50
12.48	20.49	0.41	2.00	119.50	0.00	0.50
12.54	19.29	0.42	2.19	119.50	0.00	0.50
12.61	17.81	0.51	2.84	119.50	0.00	0.50
12.67	16.52	0.60	3.64	119.50	0.00	0.50
12.73	15.51	0.64	4.13	119.50	0.00	0.50
12.80	15.87	0.65	4.11	119.50	0.00	0.50
12.87	17.07	0.67	3.91	119.50	0.00	0.50
12.93	20.30	0.65	3.18	119.50	0.00	0.50
13.00	25.10	0.62	2.45	119.50	0.00	0.50
13.07	27.04	0.62	2.31	119.50	0.00	0.50

13.13	25.38	0.63	2.49	119.50	0.00	0.50
13.19	22.43	0.61	2.72	119.50	0.00	0.50
13.25	19.47	0.56	2.89	119.50	0.00	0.50
13.32	16.71	0.51	3.07	119.50	0.00	0.50
13.38	14.67	0.50	3.38	119.50	0.00	0.50
13.45	13.29	0.46	3.48	119.50	0.00	0.50
13.52	12.74	0.41	3.23	119.50	0.00	0.50
13.61	12.37	0.33	2.64	119.50	0.00	0.50
13.67	12.18	0.28	2.26	119.50	0.00	0.50
13.74	12.09	0.25	2.07	119.50	0.00	0.50
13.81	11.81	0.24	2.02	119.50	0.00	0.50
13.87	11.72	0.23	2.01	119.50	0.00	0.50
13.91	11.72	0.23	2.01	119.50	0.00	0.50
13.97	11.72	0.23	2.00	119.50	0.00	0.50
14.05	11.35	0.23	2.04	119.50	0.00	0.50
14.12	11.54	0.23	2.00	119.50	0.00	0.50
14.18	11.35	0.23	2.04	119.50	0.00	0.50
14.25	11.35	0.23	2.04	119.50	0.00	0.50
14.31	11.35	0.24	2.12	119.50	0.00	0.50
14.38	11.35	0.26	2.30	119.50	0.00	0.50
14.44	11.54	0.27	2.33	119.50	0.00	0.50
14.51	11.91	0.27	2.29	119.50	0.00	0.50
14.57	12.00	0.27	2.22	119.50	0.00	0.50
14.64	12.18	0.26	2.14	119.50	0.00	0.50
14.70	11.72	0.25	2.12	119.50	0.00	0.50
14.76	11.35	0.23	2.05	119.50	0.00	0.50
14.86	10.71	0.21	1.92	119.50	0.00	0.50
14.92	10.34	0.19	1.82	119.50	0.00	0.50
14.98	10.06	0.18	1.75	119.50	0.00	0.50
15.04	9.78	0.17	1.77	122.20	0.00	0.50
15.11	9.69	0.17	1.74	122.20	0.00	0.50
15.18	9.97	0.17	1.72	122.20	0.00	0.50
15.24	10.34	0.17	1.67	122.20	0.00	0.50
15.30	10.34	0.17	1.63	122.20	0.00	0.50
15.37	10.06	0.16	1.63	122.20	0.00	0.50
15.44	9.69	0.17	1.70	122.20	0.00	0.50
15.51	9.23	0.18	1.91	122.20	0.00	0.50
15.57	8.86	0.20	2.21	122.20	0.00	0.50
15.64	9.18	0.23	2.54	122.20	0.00	0.50
15.70	8.49	0.29	3.45	122.20	0.00	0.50
15.77	9.14	0.37	3.99	122.20	0.00	0.50
15.83	10.52	0.42	4.00	122.20	0.00	0.50
15.90	12.64	0.45	3.54	122.20	0.00	0.50
15.96	14.77	0.49	3.28	122.20	0.00	0.50
16.03	16.24	0.56	3.44	122.20	0.00	0.50
16.10	17.54	0.63	3.61	122.20	0.00	0.50
16.17	18.46	0.67	3.65	122.20	0.00	0.50
16.23	20.21	0.68	3.34	122.20	0.00	0.50
16.30	22.70	0.66	2.92	122.20	0.00	0.50
16.36	25.20	0.68	2.70	122.20	0.00	0.50

16.43	25.57	0.73	2.85	122.20	0.00	0.50
16.49	25.66	0.77	3.00	122.20	0.00	0.50
16.55	25.57	0.79	3.10	122.20	0.00	0.50
16.62	25.57	0.83	3.25	122.20	0.00	0.50
16.69	28.98	0.57	1.97	122.20	0.00	0.50
16.75	34.70	0.24	0.68	122.20	0.00	0.50
16.82	40.52	0.25	0.61	122.20	0.00	0.50
16.89	44.30	0.22	0.50	122.20	0.00	0.50
16.95	45.87	0.21	0.46	122.20	0.00	0.50
17.01	43.38	0.23	0.53	122.20	0.00	0.50
17.08	41.35	0.27	0.66	122.20	0.00	0.50
17.15	40.43	0.35	0.88	122.20	0.00	0.50
17.21	35.16	0.47	1.34	122.20	0.00	0.50
17.28	29.35	0.60	2.06	122.20	0.00	0.50
17.34	24.37	0.72	2.96	122.20	0.00	0.50
17.41	20.21	0.78	3.87	122.20	0.00	0.50
17.47	17.72	0.77	4.35	122.20	0.00	0.50
17.54	16.34	0.71	4.33	122.20	0.00	0.50
17.61	15.51	0.59	3.83	122.20	0.00	0.50
17.67	14.21	0.47	3.27	122.20	0.00	0.50
17.74	12.46	0.36	2.91	122.20	0.00	0.50
17.80	11.44	0.29	2.54	122.20	0.00	0.50
17.87	10.34	0.25	2.38	122.20	0.00	0.50
17.93	9.41	0.23	2.43	122.20	0.00	0.50
18.00	9.46	0.24	2.51	122.20	0.00	0.50
18.06	9.46	0.26	2.76	122.20	0.00	0.50
18.13	9.51	0.28	2.95	122.20	0.00	0.50
18.20	10.61	0.29	2.72	122.20	0.00	0.50
18.26	11.91	0.30	2.55	122.20	0.00	0.50
18.33	13.38	0.34	2.52	122.20	0.00	0.50
18.39	14.21	0.38	2.70	122.20	0.00	0.50
18.45	14.67	0.42	2.88	122.20	0.00	0.50
18.52	14.77	0.44	2.98	122.20	0.00	0.50
18.58	15.14	0.44	2.90	122.20	0.00	0.50
18.65	15.97	0.44	2.77	122.20	0.00	0.50
18.71	17.35	0.50	2.89	122.20	0.00	0.50
18.78	18.55	0.63	3.39	122.20	0.00	0.50
18.84	19.20	0.79	4.09	122.20	0.00	0.50
18.91	19.66	0.96	4.86	122.20	0.00	0.50
18.97	21.04	1.10	5.22	122.20	0.00	0.50
19.03	24.92	1.22	4.89	122.20	0.00	0.50
19.10	29.53	1.32	4.47	122.20	0.00	0.50
19.17	32.58	1.39	4.28	122.20	0.00	0.50
19.24	33.60	1.44	4.29	122.20	0.00	0.50
19.30	34.33	1.46	4.26	122.20	0.00	0.50
19.37	36.64	1.48	4.03	122.20	0.00	0.50
19.43	40.15	1.50	3.73	122.20	0.00	0.50
19.50	44.03	1.51	3.42	122.20	0.00	0.50
19.56	47.35	1.49	3.14	122.20	0.00	0.50
19.63	50.85	1.42	2.79	122.20	0.00	0.50

19.69	53.99	1.04	1.94	122.20	0.00	0.50
19.76	56.76	0.50	0.88	122.20	0.00	0.50
19.83	59.16	0.64	1.08	122.20	0.00	0.50
19.90	60.73	0.75	1.23	122.20	0.00	0.50
19.96	62.30	0.79	1.26	122.20	0.00	0.50
20.02	63.31	0.78	1.24	124.20	0.00	0.50
20.10	61.56	0.78	1.27	124.20	0.00	0.50
20.16	64.98	0.78	1.20	124.20	0.00	0.50
20.22	65.16	0.79	1.22	124.20	0.00	0.50
20.29	65.44	0.83	1.27	124.20	0.00	0.50
20.35	65.81	0.85	1.29	124.20	0.00	0.50
20.42	66.27	0.83	1.25	124.20	0.00	0.50
20.49	66.64	0.80	1.20	124.20	0.00	0.50
20.56	67.38	0.77	1.14	124.20	0.00	0.50
20.62	68.48	0.74	1.08	124.20	0.00	0.50
20.68	69.04	0.75	1.08	124.20	0.00	0.50
20.75	69.59	0.80	1.14	124.20	0.00	0.50
20.82	69.68	0.88	1.26	124.20	0.00	0.50
20.88	69.59	0.96	1.38	124.20	0.00	0.50
20.95	69.04	1.06	1.53	124.20	0.00	0.50
21.01	68.21	1.14	1.67	124.20	0.00	0.50
21.08	68.76	1.17	1.71	124.20	0.00	0.50
21.14	71.16	1.08	1.51	124.20	0.00	0.50
21.21	73.47	0.89	1.21	124.20	0.00	0.50
21.27	74.76	0.76	1.02	124.20	0.00	0.50
21.34	75.50	0.72	0.95	124.20	0.00	0.50
21.40	75.68	0.72	0.96	124.20	0.00	0.50
21.47	76.05	0.75	0.99	124.20	0.00	0.50
21.53	73.74	0.78	1.06	124.20	0.00	0.50
21.60	71.07	0.82	1.16	124.20	0.00	0.50
21.67	67.10	0.89	1.33	124.20	0.00	0.50
21.73	63.04	0.98	1.55	124.20	0.00	0.50
21.79	59.16	1.07	1.81	124.20	0.00	0.50
21.86	55.84	1.18	2.12	124.20	0.00	0.50
21.93	52.89	1.27	2.40	124.20	0.00	0.50
21.99	50.58	1.32	2.60	124.20	0.00	0.50
22.05	48.55	1.32	2.73	124.20	0.00	0.50
22.12	47.16	1.30	2.76	124.20	0.00	0.50
22.18	46.61	1.26	2.70	124.20	0.00	0.50
22.24	47.26	1.24	2.63	124.20	0.00	0.50
22.31	49.65	1.24	2.49	124.20	0.00	0.50
22.37	53.44	1.21	2.26	124.20	0.00	0.50
22.47	56.58	1.10	1.95	124.20	0.00	0.50
22.50	56.76	1.06	1.87	124.20	0.00	0.50
22.57	56.76	0.88	1.55	124.20	0.00	0.50
22.64	55.75	0.58	1.05	124.20	0.00	0.50
22.70	54.27	0.57	1.05	124.20	0.00	0.50
22.77	52.33	0.61	1.17	124.20	0.00	0.50
22.84	49.01	0.69	1.41	124.20	0.00	0.50
22.90	43.10	0.78	1.81	124.20	0.00	0.50

22.97	31.38	0.86	2.72	124.20	0.00	0.50
23.03	26.21	0.91	3.47	124.20	0.00	0.50
23.10	20.21	0.91	4.49	124.20	0.00	0.50
23.16	16.80	0.84	5.02	124.20	0.00	0.50
23.23	16.06	0.75	4.67	124.20	0.00	0.50
23.29	15.41	0.63	4.11	124.20	0.00	0.50
23.36	14.12	0.52	3.70	124.20	0.00	0.50
23.42	12.00	0.44	3.67	124.20	0.00	0.50
23.49	10.80	0.38	3.53	124.20	0.00	0.50
23.59	10.34	0.26	2.55	124.20	0.00	0.50
23.62	10.34	0.22	2.08	124.20	0.00	0.50
23.71	10.43	0.14	1.35	124.20	0.00	0.50
23.78	10.61	0.12	1.13	124.20	0.00	0.50
23.85	10.80	0.11	1.03	124.20	0.00	0.50
23.91	10.43	0.12	1.10	124.20	0.00	0.50
23.97	9.88	0.13	1.27	124.20	0.00	0.50
24.03	9.69	0.13	1.38	124.20	0.00	0.50
24.10	9.69	0.13	1.38	124.20	0.00	0.50
24.17	9.60	0.12	1.29	124.20	0.00	0.50
24.23	9.60	0.12	1.24	124.20	0.00	0.50
24.30	9.60	0.12	1.25	124.20	0.00	0.50
24.36	9.60	0.12	1.29	124.20	0.00	0.50
24.43	9.78	0.14	1.38	124.20	0.00	0.50
24.49	10.06	0.16	1.54	124.20	0.00	0.50
24.56	10.52	0.19	1.77	124.20	0.00	0.50
24.63	10.98	0.22	1.99	124.20	0.00	0.50
24.69	11.63	0.26	2.28	124.20	0.00	0.50
24.76	12.64	0.34	2.71	124.20	0.00	0.50
24.82	14.67	0.43	2.96	124.20	0.00	0.50
24.88	17.54	0.51	2.88	124.20	0.00	0.50
24.95	20.95	0.56	2.66	124.20	0.00	0.50
25.01	23.81	0.58	2.44	119.80	0.00	0.50
25.08	27.87	0.57	2.06	119.80	0.00	0.50
25.14	30.46	0.58	1.90	119.80	0.00	0.50
25.21	31.84	0.62	1.94	119.80	0.00	0.50
25.27	33.32	0.66	1.98	119.80	0.00	0.50
25.34	34.80	0.68	1.96	119.80	0.00	0.50
25.41	36.92	0.69	1.87	119.80	0.00	0.50
25.47	39.50	0.69	1.75	119.80	0.00	0.50
25.53	41.44	0.68	1.65	119.80	0.00	0.50
25.60	41.53	0.65	1.57	119.80	0.00	0.50
25.67	40.70	0.43	1.07	119.80	0.00	0.50
25.74	39.69	0.38	0.94	119.80	0.00	0.50
25.80	39.04	0.47	1.21	119.80	0.00	0.50
25.87	38.76	0.52	1.35	119.80	0.00	0.50
25.93	37.93	0.53	1.39	119.80	0.00	0.50
25.99	33.41	0.52	1.57	119.80	0.00	0.50
26.05	34.06	0.58	1.71	119.80	0.00	0.50
26.11	36.18	0.64	1.78	119.80	0.00	0.50
26.18	34.52	0.70	2.03	119.80	0.00	0.50

26.25	32.76	0.75	2.28	119.80	0.00	0.50
26.34	30.09	0.79	2.64	119.80	0.00	0.50
26.40	27.97	0.80	2.85	119.80	0.00	0.50
26.46	26.49	0.77	2.93	119.80	0.00	0.50
26.53	23.35	0.72	3.10	119.80	0.00	0.50
26.59	19.29	0.66	3.43	119.80	0.00	0.50
26.66	16.34	0.60	3.68	119.80	0.00	0.50
26.72	14.21	0.53	3.72	119.80	0.00	0.50
26.78	12.09	0.44	3.61	119.80	0.00	0.50
26.85	10.71	0.37	3.43	119.80	0.00	0.50
26.91	10.24	0.31	3.05	119.80	0.00	0.50
26.98	10.34	0.26	2.50	119.80	0.00	0.50
27.04	10.43	0.21	2.04	119.80	0.00	0.50
27.11	10.61	0.19	1.81	119.80	0.00	0.50
27.17	10.52	0.19	1.77	119.80	0.00	0.50
27.24	10.34	0.19	1.81	119.80	0.00	0.50
27.31	10.34	0.19	1.80	119.80	0.00	0.50
27.37	10.34	0.18	1.73	119.80	0.00	0.50
27.43	10.15	0.18	1.75	119.80	0.00	0.50
27.49	10.15	0.19	1.82	119.80	0.00	0.50
27.58	10.15	0.19	1.82	119.80	0.00	0.50
27.65	10.43	0.19	1.80	119.80	0.00	0.50
27.71	10.43	0.19	1.83	119.80	0.00	0.50
27.78	10.61	0.19	1.82	119.80	0.00	0.50
27.85	10.61	0.20	1.85	119.80	0.00	0.50
27.91	10.61	0.20	1.88	119.80	0.00	0.50
27.97	10.61	0.20	1.92	119.80	0.00	0.50
28.04	10.61	0.21	1.96	119.80	0.00	0.50
28.11	10.52	0.22	2.04	119.80	0.00	0.50
28.17	10.52	0.23	2.15	119.80	0.00	0.50
28.24	10.52	0.24	2.27	119.80	0.00	0.50
28.30	10.80	0.25	2.34	119.80	0.00	0.50
28.37	10.98	0.26	2.40	119.80	0.00	0.50
28.43	11.17	0.26	2.36	119.80	0.00	0.50
28.50	11.35	0.28	2.46	119.80	0.00	0.50
28.57	11.44	0.28	2.47	119.80	0.00	0.50
28.63	11.44	0.28	2.44	119.80	0.00	0.50
28.69	11.44	0.27	2.33	119.80	0.00	0.50
28.74	11.31	0.27	2.37	119.80	0.00	0.50
28.81	11.44	0.28	2.43	119.80	0.00	0.50
28.87	11.17	0.27	2.38	119.80	0.00	0.50
28.93	11.44	0.29	2.55	119.80	0.00	0.50
29.00	12.09	0.32	2.68	119.80	0.00	0.50
29.07	12.64	0.35	2.78	119.80	0.00	0.50
29.16	13.94	0.39	2.77	119.80	0.00	0.50
29.20	14.12	0.40	2.83	119.80	0.00	0.50
29.26	14.67	0.44	2.99	119.80	0.00	0.50
29.33	15.14	0.48	3.18	119.80	0.00	0.50
29.42	14.21	0.47	3.32	119.80	0.00	0.50
29.49	13.66	0.48	3.51	119.80	0.00	0.50

29.55	13.29	0.48	3.63	119.80	0.00	0.50
29.59	13.20	0.49	3.70	119.80	0.00	0.50
29.68	13.84	0.48	3.45	119.80	0.00	0.50
29.75	14.49	0.42	2.92	119.80	0.00	0.50
29.81	14.49	0.40	2.75	119.80	0.00	0.50
29.88	14.49	0.40	2.74	119.80	0.00	0.50
29.94	13.48	0.40	3.00	119.80	0.00	0.50
30.01	13.48	0.40	2.97	123.00	0.00	0.50
30.07	13.20	0.40	3.04	123.00	0.00	0.50
30.13	13.52	0.42	3.12	123.00	0.00	0.50
30.20	13.01	0.47	3.57	123.00	0.00	0.50
30.26	13.57	0.53	3.94	123.00	0.00	0.50
30.33	14.21	0.63	4.40	123.00	0.00	0.50
30.39	15.23	0.70	4.62	123.00	0.00	0.50
30.47	16.80	0.78	4.65	123.00	0.00	0.50
30.53	18.09	0.86	4.75	123.00	0.00	0.50
30.60	18.74	0.92	4.90	123.00	0.00	0.50
30.66	19.11	0.95	4.98	123.00	0.00	0.50
30.73	19.57	0.96	4.89	123.00	0.00	0.50
30.79	20.40	0.92	4.50	123.00	0.00	0.50
30.86	20.95	0.81	3.88	123.00	0.00	0.50
30.92	21.14	0.68	3.24	123.00	0.00	0.50
30.99	20.21	0.59	2.93	123.00	0.00	0.50
31.05	19.29	0.57	2.97	123.00	0.00	0.50
31.12	17.44	0.55	3.14	123.00	0.00	0.50
31.18	15.60	0.54	3.44	123.00	0.00	0.50
31.23	13.01	0.52	3.99	123.00	0.00	0.50
31.32	14.12	0.26	1.82	123.00	0.00	0.50
31.39	12.83	0.25	1.92	123.00	0.00	0.50
31.45	12.18	0.25	2.02	123.00	0.00	0.50
31.52	11.44	0.25	2.23	123.00	0.00	0.50
31.58	10.98	0.26	2.38	123.00	0.00	0.50
31.64	10.61	0.26	2.45	123.00	0.00	0.50
31.70	10.61	0.26	2.41	123.00	0.00	0.50
31.77	10.61	0.25	2.38	123.00	0.00	0.50
31.83	10.61	0.24	2.30	123.00	0.00	0.50
31.90	10.61	0.22	2.10	123.00	0.00	0.50
31.96	10.61	0.22	2.11	123.00	0.00	0.50
32.03	10.89	0.22	2.06	123.00	0.00	0.50
32.10	10.98	0.23	2.10	123.00	0.00	0.50
32.16	10.98	0.25	2.24	123.00	0.00	0.50
32.23	10.71	0.25	2.32	123.00	0.00	0.50
32.30	10.71	0.26	2.41	123.00	0.00	0.50
32.36	10.52	0.28	2.70	123.00	0.00	0.50
32.43	10.52	0.31	2.97	123.00	0.00	0.50
32.49	10.89	0.34	3.08	123.00	0.00	0.50
32.56	10.89	0.34	3.15	123.00	0.00	0.50
32.62	10.98	0.34	3.09	123.00	0.00	0.50
32.69	11.35	0.35	3.08	123.00	0.00	0.50
32.75	11.44	0.37	3.25	123.00	0.00	0.50

32.82	11.44	0.39	3.42	123.00	0.00	0.50
32.88	11.44	0.40	3.50	123.00	0.00	0.50
32.95	11.54	0.40	3.42	123.00	0.00	0.50
33.02	11.54	0.40	3.44	123.00	0.00	0.50
33.08	11.35	0.40	3.53	123.00	0.00	0.50
33.14	11.35	0.40	3.53	123.00	0.00	0.50
33.20	10.89	0.40	3.68	123.00	0.00	0.50
33.27	10.71	0.40	3.73	123.00	0.00	0.50
33.33	10.98	0.39	3.52	123.00	0.00	0.50
33.40	11.54	0.31	2.69	123.00	0.00	0.50
33.46	12.28	0.23	1.85	123.00	0.00	0.50
33.53	13.11	0.19	1.46	123.00	0.00	0.50
33.62	13.57	0.29	2.16	123.00	0.00	0.50
33.69	13.38	0.48	3.61	123.00	0.00	0.50
33.76	13.48	0.67	4.93	123.00	0.00	0.50
33.79	14.21	0.75	5.31	123.00	0.00	0.50
33.85	17.72	0.90	5.09	123.00	0.00	0.50
33.95	27.60	1.10	3.97	123.00	0.00	0.50
34.00	39.41	1.17	2.96	123.00	0.00	0.50
34.07	44.86	1.17	2.61	123.00	0.00	0.50
34.13	50.30	1.13	2.25	123.00	0.00	0.50
34.20	58.33	1.04	1.78	123.00	0.00	0.50
34.26	66.82	0.90	1.34	123.00	0.00	0.50
34.33	74.76	0.74	0.99	123.00	0.00	0.50
34.39	79.65	0.64	0.80	123.00	0.00	0.50
34.46	81.77	0.59	0.73	123.00	0.00	0.50
34.52	82.14	0.59	0.72	123.00	0.00	0.50
34.59	81.04	0.64	0.79	123.00	0.00	0.50
34.65	80.99	0.70	0.86	123.00	0.00	0.50
34.72	80.94	0.72	0.89	123.00	0.00	0.50
34.78	84.08	0.71	0.85	123.00	0.00	0.50
34.85	89.07	0.67	0.75	123.00	0.00	0.50
34.91	94.42	0.59	0.63	123.00	0.00	0.50
34.98	101.60	0.51	0.51	123.00	0.00	0.50
35.05	109.40	0.52	0.47	123.20	0.00	0.50
35.12	118.20	0.55	0.46	123.20	0.00	0.50
35.18	126.50	0.62	0.49	123.20	0.00	0.50
35.25	135.50	0.71	0.52	123.20	0.00	0.50
35.31	143.80	0.78	0.54	123.20	0.00	0.50
35.38	150.90	0.84	0.56	123.20	0.00	0.50
35.44	155.70	0.89	0.57	123.20	0.00	0.50
35.50	158.40	0.95	0.60	123.20	0.00	0.50
35.57	160.10	1.04	0.65	123.20	0.00	0.50
35.64	160.90	1.13	0.70	123.20	0.00	0.50
35.71	160.90	1.22	0.76	123.20	0.00	0.50
35.77	160.50	1.30	0.81	123.20	0.00	0.50
35.84	159.20	1.38	0.87	123.20	0.00	0.50
35.90	157.40	1.47	0.94	123.20	0.00	0.50
35.97	154.90	1.57	1.01	123.20	0.00	0.50
36.04	152.00	1.65	1.09	123.20	0.00	0.50

36.10	147.40	1.75	1.19	123.20	0.00	0.50
36.16	141.00	1.89	1.34	123.20	0.00	0.50
36.23	133.00	1.95	1.46	123.20	0.00	0.50
36.29	125.10	1.93	1.54	123.20	0.00	0.50
36.36	119.80	2.10	1.75	123.20	0.00	0.50
36.42	120.70	2.09	1.73	123.20	0.00	0.50
36.49	128.60	1.93	1.50	123.20	0.00	0.50
36.55	132.90	1.76	1.33	123.20	0.00	0.50
36.64	135.60	1.54	1.13	123.20	0.00	0.50
36.71	141.40	1.36	0.96	123.20	0.00	0.50
36.77	150.70	1.26	0.83	123.20	0.00	0.50
36.84	157.70	1.26	0.80	123.20	0.00	0.50
36.90	161.70	1.30	0.80	123.20	0.00	0.50
36.97	161.40	1.37	0.85	123.20	0.00	0.50
37.03	160.00	1.45	0.91	123.20	0.00	0.50
37.10	159.00	1.53	0.96	123.20	0.00	0.50
37.16	158.10	1.57	1.00	123.20	0.00	0.50
37.23	156.10	1.62	1.04	123.20	0.00	0.50
37.29	154.00	1.65	1.07	123.20	0.00	0.50
37.36	151.00	1.71	1.13	123.20	0.00	0.50
37.42	147.80	1.74	1.18	123.20	0.00	0.50
37.49	146.90	1.73	1.18	123.20	0.00	0.50
37.55	152.20	1.68	1.11	123.20	0.00	0.50
37.62	165.20	1.61	0.98	123.20	0.00	0.50
37.68	178.40	1.53	0.86	123.20	0.00	0.50
37.75	193.30	1.42	0.74	123.20	0.00	0.50
37.81	201.20	1.33	0.66	123.20	0.00	0.50
37.88	202.90	1.28	0.63	123.20	0.00	0.50
37.95	203.20	1.28	0.63	123.20	0.00	0.50
38.01	203.40	1.30	0.64	123.20	0.00	0.50
38.08	203.50	1.37	0.67	123.20	0.00	0.50
38.14	203.40	1.47	0.72	123.20	0.00	0.50
38.21	204.70	1.60	0.78	123.20	0.00	0.50
38.27	208.50	1.72	0.82	123.20	0.00	0.50
38.34	213.20	1.87	0.88	123.20	0.00	0.50
38.40	218.20	2.03	0.93	123.20	0.00	0.50
38.47	222.20	2.19	0.99	123.20	0.00	0.50
38.54	223.70	2.35	1.05	123.20	0.00	0.50
38.60	222.80	2.50	1.12	123.20	0.00	0.50
38.67	221.90	2.63	1.19	123.20	0.00	0.50
38.74	219.90	2.74	1.25	123.20	0.00	0.50
38.80	218.80	2.83	1.29	123.20	0.00	0.50
38.87	218.10	2.88	1.32	123.20	0.00	0.50
38.94	217.70	2.91	1.34	123.20	0.00	0.50
39.00	217.90	2.93	1.34	123.20	0.00	0.50
39.06	216.30	2.97	1.37	123.20	0.00	0.50
39.13	214.30	3.01	1.40	123.20	0.00	0.50
39.19	211.70	3.07	1.45	123.20	0.00	0.50
39.25	209.60	2.68	1.28	123.20	0.00	0.50
39.32	207.00	1.77	0.86	123.20	0.00	0.50

39.39	204.90	1.85	0.90	123.20	0.00	0.50
39.46	204.50	1.93	0.95	123.20	0.00	0.50
39.52	204.20	2.03	0.99	123.20	0.00	0.50
39.58	197.10	2.10	1.06	123.20	0.00	0.50
39.66	190.60	2.18	1.14	123.20	0.00	0.50
39.72	199.70	2.26	1.13	123.20	0.00	0.50
39.79	200.60	2.43	1.21	123.20	0.00	0.50
39.85	200.90	2.58	1.29	123.20	0.00	0.50
39.92	200.10	2.67	1.34	123.20	0.00	0.50
39.98	198.90	2.72	1.37	123.20	0.00	0.50
40.05	197.50	2.77	1.40	123.20	0.00	0.50
40.09	197.00	2.79	1.41	123.20	0.00	0.50
40.15	196.50	2.81	1.43	123.20	0.00	0.50
40.22	196.10	2.83	1.44	123.20	0.00	0.50
40.29	196.80	2.86	1.45	123.20	0.00	0.50
40.38	198.70	2.87	1.45	123.20	0.00	0.50
40.45	201.20	2.89	1.44	123.20	0.00	0.50
40.48	201.70	2.91	1.44	123.20	0.00	0.50
40.55	202.10	2.91	1.44	123.20	0.00	0.50
40.64	200.60	2.92	1.46	123.20	0.00	0.50
40.70	197.90	2.91	1.47	123.20	0.00	0.50
40.77	193.30	2.88	1.49	123.20	0.00	0.50
40.83	189.20	2.85	1.50	123.20	0.00	0.50
40.90	186.10	2.80	1.50	123.20	0.00	0.50
40.97	184.50	2.75	1.49	123.20	0.00	0.50
41.03	182.80	2.72	1.49	123.20	0.00	0.50
41.09	180.70	2.68	1.48	123.20	0.00	0.50
41.16	178.80	2.63	1.47	123.20	0.00	0.50
41.22	175.20	2.58	1.47	123.20	0.00	0.50
41.29	175.50	2.52	1.43	123.20	0.00	0.50
41.35	175.50	2.42	1.38	123.20	0.00	0.50
41.42	175.90	2.19	1.25	123.20	0.00	0.50
41.48	187.60	1.95	1.04	123.20	0.00	0.50
41.55	198.60	1.68	0.85	123.20	0.00	0.50
41.61	206.80	1.43	0.69	123.20	0.00	0.50
41.68	207.50	1.54	0.74	123.20	0.00	0.50
41.74	203.80	1.59	0.78	123.20	0.00	0.50
41.81	197.70	1.63	0.83	123.20	0.00	0.50
41.88	190.20	1.69	0.89	123.20	0.00	0.50
41.95	157.70	1.74	1.10	123.20	0.00	0.50
42.01	172.70	1.73	1.00	123.20	0.00	0.50
42.08	167.30	1.72	1.03	123.20	0.00	0.50
42.14	164.10	1.79	1.09	123.20	0.00	0.50
42.21	164.60	1.94	1.18	123.20	0.00	0.50
42.27	170.10	2.03	1.19	123.20	0.00	0.50
42.34	178.30	1.93	1.08	123.20	0.00	0.50
42.40	184.50	1.70	0.92	123.20	0.00	0.50
42.46	183.00	1.52	0.83	123.20	0.00	0.50
42.53	174.90	1.48	0.84	123.20	0.00	0.50
42.59	166.20	1.44	0.87	123.20	0.00	0.50

42.66	157.60	1.55	0.98	123.20	0.00	0.50
42.72	147.30	1.74	1.18	123.20	0.00	0.50
42.79	133.00	1.91	1.44	123.20	0.00	0.50
42.86	116.00	2.02	1.74	123.20	0.00	0.50
42.93	101.50	2.08	2.05	123.20	0.00	0.50
42.99	93.40	2.10	2.24	123.20	0.00	0.50
43.06	89.25	2.10	2.35	123.20	0.00	0.50
43.13	87.68	2.11	2.40	123.20	0.00	0.50
43.19	88.79	2.13	2.39	123.20	0.00	0.50
43.26	91.28	2.15	2.36	123.20	0.00	0.50
43.32	97.56	2.17	2.23	123.20	0.00	0.50
43.38	104.80	2.16	2.06	123.20	0.00	0.50
43.45	111.90	2.07	1.85	123.20	0.00	0.50
43.51	118.90	1.98	1.67	123.20	0.00	0.50
43.57	125.60	1.98	1.58	123.20	0.00	0.50
43.64	133.30	2.00	1.50	123.20	0.00	0.50
43.71	139.30	2.04	1.47	123.20	0.00	0.50
43.77	143.80	2.08	1.45	123.20	0.00	0.50
43.84	145.00	2.10	1.45	123.20	0.00	0.50
43.91	145.80	2.11	1.44	123.20	0.00	0.50
43.97	146.10	2.09	1.43	123.20	0.00	0.50
44.04	146.00	2.06	1.41	123.20	0.00	0.50
44.10	147.20	2.04	1.38	123.20	0.00	0.50
44.17	147.70	2.02	1.37	123.20	0.00	0.50
44.23	146.40	2.05	1.40	123.20	0.00	0.50
44.30	142.60	2.11	1.48	123.20	0.00	0.50
44.37	135.00	2.13	1.58	123.20	0.00	0.50
44.43	128.00	2.10	1.64	123.20	0.00	0.50
44.50	121.50	2.11	1.74	123.20	0.00	0.50
44.56	116.60	2.18	1.87	123.20	0.00	0.50
44.63	109.90	2.30	2.10	123.20	0.00	0.50
44.70	101.40	2.35	2.32	123.20	0.00	0.50
44.77	97.93	2.30	2.35	123.20	0.00	0.50
44.84	95.34	2.24	2.35	123.20	0.00	0.50
44.90	98.76	2.12	2.14	123.20	0.00	0.50
44.97	104.10	1.92	1.85	123.20	0.00	0.50
45.03	105.50	1.74	1.65	124.10	0.00	0.50
45.10	104.10	1.61	1.54	124.10	0.00	0.50
45.17	99.49	1.53	1.54	124.10	0.00	0.50
45.23	92.11	1.50	1.63	124.10	0.00	0.50
45.30	84.27	1.50	1.78	124.10	0.00	0.50
45.36	73.47	1.50	2.05	124.10	0.00	0.50
45.42	61.10	1.51	2.47	124.10	0.00	0.50
45.49	48.82	1.51	3.09	124.10	0.00	0.50
45.55	40.89	1.50	3.68	124.10	0.00	0.50
45.61	33.60	1.50	4.46	124.10	0.00	0.50
45.68	27.97	1.46	5.21	124.10	0.00	0.50
45.75	26.21	1.33	5.09	124.10	0.00	0.50
45.81	25.10	1.14	4.53	124.10	0.00	0.50
45.88	23.17	0.92	3.98	124.10	0.00	0.50

45.94	21.69	0.79	3.65	124.10	0.00	0.50
46.01	20.30	0.76	3.72	124.10	0.00	0.50
46.07	20.40	0.72	3.52	124.10	0.00	0.50
46.13	20.49	0.68	3.34	124.10	0.00	0.50
46.20	21.14	0.69	3.28	124.10	0.00	0.50
46.26	22.43	0.75	3.34	124.10	0.00	0.50
46.33	24.27	0.84	3.47	124.10	0.00	0.50
46.39	26.67	0.96	3.60	124.10	0.00	0.50
46.46	28.98	1.09	3.77	124.10	0.00	0.50
46.52	30.46	1.21	3.97	124.10	0.00	0.50
46.59	31.84	1.32	4.13	124.10	0.00	0.50
46.65	32.40	1.42	4.39	124.10	0.00	0.50
46.72	32.58	1.52	4.67	124.10	0.00	0.50
46.79	32.49	1.58	4.87	124.10	0.00	0.50
46.86	33.32	1.64	4.93	124.10	0.00	0.50
46.92	35.07	1.77	5.06	124.10	0.00	0.50
46.99	37.47	1.91	5.10	124.10	0.00	0.50
47.05	40.70	1.94	4.76	124.10	0.00	0.50
47.12	41.63	1.92	4.60	124.10	0.00	0.50
47.18	38.95	1.94	4.98	124.10	0.00	0.50
47.25	36.00	2.00	5.56	124.10	0.00	0.50
47.31	36.09	1.95	5.41	124.10	0.00	0.50
47.38	36.18	1.83	5.07	124.10	0.00	0.50
47.44	42.27	2.29	5.41	124.10	0.00	0.50
47.51	48.73	2.64	5.43	124.10	0.00	0.50
47.58	54.18	3.01	5.55	124.10	0.00	0.50
47.64	57.13	3.34	5.85	124.10	0.00	0.50
47.72	65.71	3.60	5.48	124.10	0.00	0.50
47.79	67.19	3.66	5.44	124.10	0.00	0.50
47.85	69.22	3.60	5.20	124.10	0.00	0.50
47.92	80.11	3.48	4.34	124.10	0.00	0.50
47.98	99.86	3.30	3.30	124.10	0.00	0.50
48.05	121.40	3.12	2.57	124.10	0.00	0.50
48.11	138.80	3.01	2.17	124.10	0.00	0.50
48.17	149.10	2.91	1.95	124.10	0.00	0.50
48.24	154.10	2.88	1.87	124.10	0.00	0.50
48.31	155.60	2.90	1.86	124.10	0.00	0.50
48.38	155.10	2.91	1.88	124.10	0.00	0.50
48.44	150.70	2.95	1.96	124.10	0.00	0.50
48.51	144.40	3.00	2.08	124.10	0.00	0.50
48.57	137.40	3.03	2.21	124.10	0.00	0.50
48.63	130.20	3.08	2.36	124.10	0.00	0.50
48.70	120.50	3.05	2.53	124.10	0.00	0.50
48.76	113.20	2.89	2.55	124.10	0.00	0.50
48.83	108.90	2.69	2.47	124.10	0.00	0.50
48.89	108.80	2.50	2.30	124.10	0.00	0.50
48.96	110.70	2.31	2.09	124.10	0.00	0.50
49.02	108.30	2.21	2.04	124.10	0.00	0.50
49.09	99.40	2.20	2.22	124.10	0.00	0.50
49.15	82.70	2.21	2.67	124.10	0.00	0.50

49.21	65.62	2.20	3.36	124.10	0.00	0.50
49.28	52.42	2.13	4.06	124.10	0.00	0.50
49.34	45.22	2.02	4.46	124.10	0.00	0.50
49.41	39.23	1.91	4.87	124.10	0.00	0.50
49.50	31.38	1.74	5.53	124.10	0.00	0.50
49.57	27.87	1.61	5.78	124.10	0.00	0.50
49.63	27.13	1.43	5.28	124.10	0.00	0.50
49.70	27.69	1.33	4.82	124.10	0.00	0.50
49.77	28.61	1.27	4.45	124.10	0.00	0.50
49.80	29.07	1.27	4.38	124.10	0.00	0.50
49.87	30.27	1.34	4.41	124.10	0.00	0.50
49.93	31.20	1.38	4.41	124.10	0.00	0.50
50.02	30.00	0.00	0.00	123.10	0.00	0.50
50.07	33.13	0.00	0.00	123.10	0.00	0.50
50.14	33.50	0.00	0.00	123.10	0.00	0.50
50.20	34.15	0.00	0.00	123.10	0.00	0.50
50.26	37.38	0.00	0.00	123.10	0.00	0.50
50.33	41.07	0.00	0.00	123.10	0.00	0.50

Modify Robertson method generates Fines from qc/fs. Inputted Fines are not relevant.

Output Results:

Settlement of Saturated Sands=4.62 in.
Settlement of Unsaturated Sands=0.64 in.
Total Settlement of Saturated and Unsaturated Sands=5.27 in.
Differential Settlement=2.633 to 3.475 in.

Depth ft	CRRm	CSRfs	F.S.	S_sat. in.	S_dry in.	S_all in.
0.00	2.00	0.63	5.00	4.62	0.64	5.27
0.05	2.08	0.63	5.00	4.62	0.64	5.27
0.10	2.08	0.63	5.00	4.62	0.64	5.27
0.15	2.08	0.63	5.00	4.62	0.64	5.27
0.20	2.08	0.63	5.00	4.62	0.64	5.27
0.25	2.08	0.63	5.00	4.62	0.64	5.27
0.30	2.08	0.63	5.00	4.62	0.64	5.27
0.35	2.08	0.63	5.00	4.62	0.64	5.27
0.40	2.08	0.63	5.00	4.62	0.64	5.27
0.45	1.58	0.63	5.00	4.62	0.64	5.27
0.50	1.04	0.63	5.00	4.62	0.64	5.27
0.55	0.70	0.63	5.00	4.62	0.64	5.27
0.60	0.49	0.63	5.00	4.62	0.64	5.27
0.65	0.35	0.63	5.00	4.62	0.64	5.26
0.70	0.29	0.63	5.00	4.62	0.64	5.26
0.75	0.24	0.63	5.00	4.62	0.64	5.26
0.80	0.21	0.63	5.00	4.62	0.64	5.26
0.85	0.18	0.63	5.00	4.62	0.64	5.26
0.90	0.16	0.63	5.00	4.62	0.64	5.26

0.95	0.14	0.63	5.00	4.62	0.64	5.26
1.00	0.13	0.63	5.00	4.62	0.64	5.26
1.05	0.12	0.63	5.00	4.62	0.64	5.26
1.10	0.12	0.63	5.00	4.62	0.64	5.26
1.15	0.11	0.63	5.00	4.62	0.64	5.26
1.20	0.11	0.63	5.00	4.62	0.64	5.26
1.25	0.10	0.63	5.00	4.62	0.63	5.26
1.30	0.10	0.63	5.00	4.62	0.63	5.26
1.35	0.10	0.63	5.00	4.62	0.63	5.26
1.40	0.09	0.63	5.00	4.62	0.63	5.25
1.45	0.09	0.63	5.00	4.62	0.62	5.25
1.50	0.09	0.63	5.00	4.62	0.62	5.24
1.55	0.09	0.63	5.00	4.62	0.61	5.23
1.60	0.10	0.63	5.00	4.62	0.60	5.22
1.65	0.10	0.63	5.00	4.62	0.59	5.21
1.70	0.10	0.63	5.00	4.62	0.58	5.20
1.75	0.10	0.63	5.00	4.62	0.57	5.20
1.80	0.11	0.63	5.00	4.62	0.56	5.19
1.85	0.11	0.63	5.00	4.62	0.55	5.18
1.90	0.11	0.63	5.00	4.62	0.54	5.17
1.95	0.12	0.63	5.00	4.62	0.53	5.15
2.00	0.14	0.63	5.00	4.62	0.52	5.15
2.05	0.16	0.63	5.00	4.62	0.52	5.14
2.10	0.17	0.63	5.00	4.62	0.51	5.14
2.15	0.18	0.63	5.00	4.62	0.51	5.14
2.20	0.19	0.63	5.00	4.62	0.51	5.13
2.25	0.21	0.63	5.00	4.62	0.50	5.13
2.30	0.22	0.63	5.00	4.62	0.50	5.13
2.35	0.22	0.63	5.00	4.62	0.50	5.12
2.40	0.22	0.63	5.00	4.62	0.49	5.12
2.45	0.22	0.63	5.00	4.62	0.49	5.11
2.50	0.22	0.63	5.00	4.62	0.48	5.11
2.55	0.21	0.63	5.00	4.62	0.47	5.10
2.60	0.20	0.63	5.00	4.62	0.46	5.08
2.65	0.19	0.63	5.00	4.62	0.45	5.07
2.70	0.19	0.63	5.00	4.62	0.44	5.06
2.75	0.18	0.63	5.00	4.62	0.42	5.05
2.80	0.17	0.63	5.00	4.62	0.41	5.03
2.85	0.16	0.63	5.00	4.62	0.40	5.02
2.90	0.15	0.63	5.00	4.62	0.38	5.01
2.95	0.15	0.63	5.00	4.62	0.37	4.99
3.00	0.15	0.63	5.00	4.62	0.35	4.98
3.05	0.15	0.63	5.00	4.62	0.34	4.96
3.10	0.14	0.63	5.00	4.62	0.32	4.95
3.15	0.14	0.63	5.00	4.62	0.31	4.93
3.20	0.15	0.63	5.00	4.62	0.30	4.92
3.25	0.15	0.63	5.00	4.62	0.28	4.91
3.30	0.15	0.63	5.00	4.62	0.27	4.89
3.35	0.15	0.63	5.00	4.62	0.25	4.88
3.40	0.15	0.63	5.00	4.62	0.24	4.87

3.45	0.16	0.63	5.00	4.62	0.23	4.85
3.50	0.16	0.63	5.00	4.62	0.22	4.84
3.55	0.16	0.63	5.00	4.62	0.20	4.83
3.60	0.17	0.63	5.00	4.62	0.19	4.82
3.65	0.17	0.63	5.00	4.62	0.18	4.81
3.70	0.17	0.63	5.00	4.62	0.17	4.79
3.75	0.17	0.63	5.00	4.62	0.16	4.78
3.80	0.17	0.63	5.00	4.62	0.15	4.77
3.85	0.16	0.63	5.00	4.62	0.14	4.76
3.90	0.17	0.63	5.00	4.62	0.13	4.75
3.95	0.17	0.63	5.00	4.62	0.12	4.74
4.00	0.17	0.63	5.00	4.62	0.11	4.73
4.05	0.17	0.63	5.00	4.62	0.10	4.72
4.10	0.16	0.63	5.00	4.62	0.09	4.71
4.15	0.16	0.63	5.00	4.62	0.08	4.71
4.20	0.17	0.63	5.00	4.62	0.08	4.70
4.25	0.17	0.62	5.00	4.62	0.07	4.70
4.30	0.18	0.62	5.00	4.62	0.07	4.69
4.35	0.18	0.62	5.00	4.62	0.06	4.69
4.40	0.18	0.62	5.00	4.62	0.06	4.68
4.45	0.18	0.62	5.00	4.62	0.06	4.68
4.50	0.19	0.62	5.00	4.62	0.05	4.67
4.55	0.19	0.62	5.00	4.62	0.05	4.67
4.60	0.19	0.62	5.00	4.62	0.04	4.66
4.65	0.20	0.62	5.00	4.62	0.03	4.66
4.70	0.20	0.62	5.00	4.62	0.03	4.65
4.75	0.21	0.62	5.00	4.62	0.02	4.65
4.80	0.22	0.62	5.00	4.62	0.02	4.64
4.85	0.25	0.62	5.00	4.62	0.01	4.64
4.90	0.26	0.62	5.00	4.62	0.01	4.63
4.95	0.27	0.62	5.00	4.62	0.00	4.63
5.00	0.29	0.62	0.46*	4.62	0.00	4.62
5.05	0.33	0.63	0.53*	4.61	0.00	4.61
5.10	0.39	0.63	0.62*	4.61	0.00	4.61
5.15	0.43	0.63	0.68*	4.60	0.00	4.60
5.20	0.45	0.64	0.71*	4.59	0.00	4.59
5.25	0.47	0.64	0.74*	4.59	0.00	4.59
5.30	0.48	0.64	0.75*	4.58	0.00	4.58
5.35	0.48	0.65	0.74*	4.58	0.00	4.58
5.40	0.47	0.65	0.72*	4.57	0.00	4.57
5.45	0.45	0.65	0.70*	4.57	0.00	4.57
5.50	0.45	0.65	0.69*	4.56	0.00	4.56
5.55	0.45	0.66	0.68*	4.55	0.00	4.55
5.60	0.44	0.66	0.67*	4.55	0.00	4.55
5.65	0.44	0.66	0.67*	4.54	0.00	4.54
5.70	0.44	0.67	0.66*	4.53	0.00	4.53
5.75	0.44	0.67	0.65*	4.53	0.00	4.53
5.80	0.43	0.67	0.64*	4.52	0.00	4.52
5.85	0.43	0.67	0.63*	4.51	0.00	4.51
5.90	0.42	0.68	0.62*	4.51	0.00	4.51

5.95	0.41	0.68	0.61*	4.50	0.00	4.50
6.00	0.40	0.68	0.59*	4.49	0.00	4.49
6.05	0.39	0.68	0.57*	4.49	0.00	4.49
6.10	0.38	0.69	0.55*	4.48	0.00	4.48
6.15	0.36	0.69	0.53*	4.47	0.00	4.47
6.20	0.35	0.69	0.50*	4.46	0.00	4.46
6.25	0.33	0.69	0.47*	4.45	0.00	4.45
6.30	0.31	0.70	0.45*	4.44	0.00	4.44
6.35	0.30	0.70	0.42*	4.43	0.00	4.43
6.40	0.27	0.70	0.39*	4.42	0.00	4.42
6.45	0.24	0.70	0.35*	4.41	0.00	4.41
6.50	0.22	0.71	0.31*	4.40	0.00	4.40
6.55	0.20	0.71	0.28*	4.39	0.00	4.39
6.60	0.18	0.71	0.25*	4.38	0.00	4.38
6.65	0.17	0.71	0.23*	4.36	0.00	4.36
6.70	0.16	0.72	0.22*	4.35	0.00	4.35
6.75	0.15	0.72	0.20*	4.34	0.00	4.34
6.80	0.14	0.72	0.19*	4.32	0.00	4.32
6.85	0.13	0.72	0.18*	4.31	0.00	4.31
6.90	0.13	0.73	0.18*	4.29	0.00	4.29
6.95	0.13	0.73	0.18*	4.28	0.00	4.28
7.00	0.13	0.73	0.17*	4.27	0.00	4.27
7.05	0.13	0.73	0.17*	4.25	0.00	4.25
7.10	0.13	0.73	0.17*	4.24	0.00	4.24
7.15	0.13	0.74	0.17*	4.22	0.00	4.22
7.20	0.12	0.74	0.17*	4.21	0.00	4.21
7.25	0.12	0.74	0.17*	4.19	0.00	4.19
7.30	0.12	0.74	0.17*	4.18	0.00	4.18
7.35	0.12	0.74	0.17*	4.16	0.00	4.16
7.40	0.13	0.75	0.17*	4.15	0.00	4.15
7.45	0.13	0.75	0.17*	4.13	0.00	4.13
7.50	0.13	0.75	0.17*	4.12	0.00	4.12
7.55	0.13	0.75	0.17*	4.10	0.00	4.10
7.60	0.13	0.75	0.17*	4.09	0.00	4.09
7.65	0.13	0.76	0.17*	4.08	0.00	4.08
7.70	0.13	0.76	0.16*	4.06	0.00	4.06
7.75	0.12	0.76	0.16*	4.05	0.00	4.05
7.80	0.12	0.76	0.16*	4.03	0.00	4.03
7.85	0.12	0.76	0.16*	4.02	0.00	4.02
7.90	0.12	0.77	0.16*	4.00	0.00	4.00
7.95	0.12	0.77	0.16*	3.98	0.00	3.98
8.00	0.12	0.77	0.16*	3.97	0.00	3.97
8.05	0.12	0.77	0.15*	3.95	0.00	3.95
8.10	0.12	0.77	0.15*	3.94	0.00	3.94
8.15	0.12	0.78	0.15*	3.92	0.00	3.92
8.20	0.12	0.78	0.16*	3.91	0.00	3.91
8.25	0.13	0.78	0.17*	3.89	0.00	3.89
8.30	0.14	0.78	0.17*	3.88	0.00	3.88
8.35	0.14	0.78	0.18*	3.87	0.00	3.87
8.40	0.14	0.78	0.18*	3.85	0.00	3.85

8.45	0.14	0.79	0.18*	3.84	0.00	3.84
8.50	0.14	0.79	0.18*	3.83	0.00	3.83
8.55	0.13	0.79	0.17*	3.82	0.00	3.82
8.60	0.14	0.79	0.17*	3.80	0.00	3.80
8.65	0.14	0.79	0.18*	3.79	0.00	3.79
8.70	0.15	0.79	0.19*	3.77	0.00	3.77
8.75	0.16	0.80	0.21*	3.76	0.00	3.76
8.80	0.17	0.80	0.22*	3.75	0.00	3.75
8.85	0.17	0.80	0.22*	3.73	0.00	3.73
8.90	0.17	0.80	0.21*	3.72	0.00	3.72
8.95	0.17	0.80	0.21*	3.71	0.00	3.71
9.00	0.18	0.80	0.22*	3.69	0.00	3.69
9.05	0.18	0.81	0.22*	3.68	0.00	3.68
9.10	0.18	0.81	0.23*	3.67	0.00	3.67
9.15	0.19	0.81	0.23*	3.65	0.00	3.65
9.20	0.19	0.81	0.24*	3.64	0.00	3.64
9.25	0.19	0.81	0.24*	3.63	0.00	3.63
9.30	0.19	0.81	0.24*	3.61	0.00	3.61
9.35	0.19	0.82	0.23*	3.60	0.00	3.60
9.40	0.18	0.82	0.23*	3.59	0.00	3.59
9.45	0.18	0.82	0.22*	3.58	0.00	3.58
9.50	0.17	0.82	0.21*	3.56	0.00	3.56
9.55	0.17	0.82	0.21*	3.55	0.00	3.55
9.60	0.16	0.82	0.20*	3.54	0.00	3.54
9.65	0.16	0.82	0.20*	3.53	0.00	3.53
9.70	0.16	0.83	0.19*	3.51	0.00	3.51
9.75	0.16	0.83	0.19*	3.50	0.00	3.50
9.80	0.15	0.83	0.19*	3.49	0.00	3.49
9.85	0.15	0.83	0.18*	3.48	0.00	3.48
9.90	0.15	0.83	0.17*	3.46	0.00	3.46
9.95	0.14	0.83	0.17*	3.45	0.00	3.45
10.00	0.13	0.83	0.16*	3.44	0.00	3.44
10.05	0.12	0.84	0.15*	3.42	0.00	3.42
10.10	0.12	0.84	0.14*	3.41	0.00	3.41
10.15	0.12	0.84	0.14*	3.39	0.00	3.39
10.20	0.11	0.84	0.14*	3.38	0.00	3.38
10.25	0.11	0.84	0.13*	3.36	0.00	3.36
10.30	0.11	0.84	0.13*	3.35	0.00	3.35
10.35	0.11	0.84	0.13*	3.33	0.00	3.33
10.40	0.10	0.85	0.12*	3.32	0.00	3.32
10.45	0.10	0.85	0.12*	3.30	0.00	3.30
10.50	0.10	0.85	0.11*	3.28	0.00	3.28
10.55	0.10	0.85	0.11*	3.26	0.00	3.26
10.60	0.10	0.85	0.12*	3.25	0.00	3.25
10.65	0.10	0.85	0.12*	3.23	0.00	3.23
10.70	0.10	0.85	0.12*	3.21	0.00	3.21
10.75	0.10	0.85	0.12*	3.19	0.00	3.19
10.80	0.10	0.86	0.12*	3.17	0.00	3.17
10.85	0.11	0.86	0.13*	3.16	0.00	3.16
10.90	0.11	0.86	0.13*	3.14	0.00	3.14

10.95	0.12	0.86	0.14*	3.13	0.00	3.13
11.00	0.12	0.86	0.14*	3.11	0.00	3.11
11.05	0.12	0.86	0.13*	3.10	0.00	3.10
11.10	0.11	0.86	0.13*	3.08	0.00	3.08
11.15	0.11	0.86	0.13*	3.07	0.00	3.07
11.20	0.11	0.86	0.12*	3.05	0.00	3.05
11.25	0.11	0.87	0.12*	3.04	0.00	3.04
11.30	0.11	0.87	0.12*	3.02	0.00	3.02
11.35	0.11	0.87	0.12*	3.00	0.00	3.00
11.40	0.11	0.87	0.12*	2.99	0.00	2.99
11.45	0.10	0.87	0.12*	2.97	0.00	2.97
11.50	0.10	0.87	0.12*	2.96	0.00	2.96
11.55	0.10	0.87	0.12*	2.94	0.00	2.94
11.60	0.10	0.87	0.11*	2.92	0.00	2.92
11.65	0.10	0.87	0.11*	2.91	0.00	2.91
11.70	0.10	0.88	0.11*	2.89	0.00	2.89
11.75	0.10	0.88	0.11*	2.87	0.00	2.87
11.80	0.10	0.88	0.11*	2.85	0.00	2.85
11.85	0.10	0.88	0.11*	2.83	0.00	2.83
11.90	0.10	0.88	0.11*	2.81	0.00	2.81
11.95	0.10	0.88	0.11*	2.79	0.00	2.79
12.00	0.10	0.88	0.11*	2.78	0.00	2.78
12.05	0.10	0.88	0.11*	2.76	0.00	2.76
12.10	0.10	0.88	0.12*	2.74	0.00	2.74
12.15	0.11	0.89	0.12*	2.72	0.00	2.72
12.20	0.11	0.89	0.12*	2.71	0.00	2.71
12.25	0.12	0.89	0.13*	2.69	0.00	2.69
12.30	0.13	0.89	0.14*	2.68	0.00	2.68
12.35	0.14	0.89	0.16*	2.66	0.00	2.66
12.40	0.16	0.89	0.17*	2.65	0.00	2.65
12.45	0.17	0.89	0.20*	2.64	0.00	2.64
12.50	0.21	0.89	0.23*	2.63	0.00	2.63
12.55	0.25	0.89	0.28*	2.62	0.00	2.62
12.60	0.32	0.89	0.36*	2.62	0.00	2.62
12.65	2.00	0.90	5.00	2.62	0.00	2.62
12.70	2.00	0.90	5.00	2.62	0.00	2.62
12.75	2.00	0.90	5.00	2.62	0.00	2.62
12.80	2.00	0.90	5.00	2.62	0.00	2.62
12.85	2.00	0.90	5.00	2.62	0.00	2.62
12.90	2.00	0.90	5.00	2.62	0.00	2.62
12.95	0.49	0.90	0.54*	2.62	0.00	2.62
13.00	0.25	0.90	0.27*	2.62	0.00	2.62
13.05	0.22	0.90	0.24*	2.61	0.00	2.61
13.10	0.23	0.90	0.25*	2.61	0.00	2.61
13.15	0.29	0.90	0.32*	2.60	0.00	2.60
13.20	0.37	0.91	0.41*	2.60	0.00	2.60
13.25	0.37	0.91	0.40*	2.60	0.00	2.60
13.30	2.00	0.91	5.00	2.60	0.00	2.60
13.35	2.00	0.91	5.00	2.60	0.00	2.60
13.40	2.00	0.91	5.00	2.60	0.00	2.60

13.45	2.00	0.91	5.00	2.60	0.00	2.60
13.50	2.00	0.91	5.00	2.60	0.00	2.60
13.55	2.00	0.91	5.00	2.60	0.00	2.60
13.60	2.00	0.91	5.00	2.60	0.00	2.60
13.65	2.00	0.91	5.00	2.60	0.00	2.60
13.70	2.00	0.91	5.00	2.60	0.00	2.60
13.75	2.00	0.92	5.00	2.60	0.00	2.60
13.80	2.00	0.92	5.00	2.60	0.00	2.60
13.85	2.00	0.92	5.00	2.60	0.00	2.60
13.90	2.00	0.92	5.00	2.60	0.00	2.60
13.95	2.00	0.92	5.00	2.60	0.00	2.60
14.00	2.00	0.92	5.00	2.60	0.00	2.60
14.05	2.00	0.92	5.00	2.60	0.00	2.60
14.10	2.00	0.92	5.00	2.60	0.00	2.60
14.15	2.00	0.92	5.00	2.60	0.00	2.60
14.20	2.00	0.92	5.00	2.60	0.00	2.60
14.25	2.00	0.92	5.00	2.60	0.00	2.60
14.30	2.00	0.92	5.00	2.60	0.00	2.60
14.35	2.00	0.92	5.00	2.60	0.00	2.60
14.40	2.00	0.93	5.00	2.60	0.00	2.60
14.45	2.00	0.93	5.00	2.60	0.00	2.60
14.50	2.00	0.93	5.00	2.60	0.00	2.60
14.55	2.00	0.93	5.00	2.60	0.00	2.60
14.60	2.00	0.93	5.00	2.60	0.00	2.60
14.65	2.00	0.93	5.00	2.60	0.00	2.60
14.70	2.00	0.93	5.00	2.60	0.00	2.60
14.75	2.00	0.93	5.00	2.60	0.00	2.60
14.80	2.00	0.93	5.00	2.60	0.00	2.60
14.85	2.00	0.93	5.00	2.60	0.00	2.60
14.90	2.00	0.93	5.00	2.60	0.00	2.60
14.95	2.00	0.93	5.00	2.60	0.00	2.60
15.00	2.00	0.93	5.00	2.60	0.00	2.60
15.05	2.00	0.94	5.00	2.60	0.00	2.60
15.10	2.00	0.94	5.00	2.60	0.00	2.60
15.15	2.00	0.94	5.00	2.60	0.00	2.60
15.20	2.00	0.94	5.00	2.60	0.00	2.60
15.25	2.00	0.94	5.00	2.60	0.00	2.60
15.30	2.00	0.94	5.00	2.60	0.00	2.60
15.35	2.00	0.94	5.00	2.60	0.00	2.60
15.40	2.00	0.94	5.00	2.60	0.00	2.60
15.45	2.00	0.94	5.00	2.60	0.00	2.60
15.50	2.00	0.94	5.00	2.60	0.00	2.60
15.55	2.00	0.94	5.00	2.60	0.00	2.60
15.60	2.00	0.94	5.00	2.60	0.00	2.60
15.65	2.00	0.94	5.00	2.60	0.00	2.60
15.70	2.00	0.94	5.00	2.60	0.00	2.60
15.75	2.00	0.94	5.00	2.60	0.00	2.60
15.80	2.00	0.94	5.00	2.60	0.00	2.60
15.85	2.00	0.95	5.00	2.60	0.00	2.60
15.90	2.00	0.95	5.00	2.60	0.00	2.60

15.95	2.00	0.95	5.00	2.60	0.00	2.60
16.00	2.00	0.95	5.00	2.60	0.00	2.60
16.05	2.00	0.95	5.00	2.60	0.00	2.60
16.10	2.00	0.95	5.00	2.60	0.00	2.60
16.15	2.00	0.95	5.00	2.60	0.00	2.60
16.20	2.00	0.95	5.00	2.60	0.00	2.60
16.25	2.00	0.95	5.00	2.60	0.00	2.60
16.30	0.42	0.95	0.44*	2.60	0.00	2.60
16.35	0.42	0.95	0.44*	2.60	0.00	2.60
16.40	0.44	0.95	0.46*	2.60	0.00	2.60
16.45	0.42	0.95	0.44*	2.60	0.00	2.60
16.50	0.49	0.95	0.51*	2.60	0.00	2.60
16.55	0.55	0.95	0.58*	2.60	0.00	2.60
16.60	0.55	0.95	0.58*	2.60	0.00	2.60
16.65	0.32	0.95	0.34*	2.60	0.00	2.60
16.70	0.14	0.96	0.15*	2.60	0.00	2.60
16.75	0.10	0.96	0.11*	2.59	0.00	2.59
16.80	0.11	0.96	0.11*	2.57	0.00	2.57
16.85	0.11	0.96	0.11*	2.55	0.00	2.55
16.90	0.11	0.96	0.11*	2.53	0.00	2.53
16.95	0.11	0.96	0.11*	2.52	0.00	2.52
17.00	0.11	0.96	0.11*	2.50	0.00	2.50
17.05	0.11	0.96	0.11*	2.48	0.00	2.48
17.10	0.11	0.96	0.11*	2.46	0.00	2.46
17.15	0.11	0.96	0.12*	2.45	0.00	2.45
17.20	0.12	0.96	0.13*	2.43	0.00	2.43
17.25	0.14	0.96	0.15*	2.42	0.00	2.42
17.30	0.22	0.96	0.23*	2.41	0.00	2.41
17.35	0.43	0.96	0.45*	2.40	0.00	2.40
17.40	2.00	0.96	5.00	2.40	0.00	2.40
17.45	2.00	0.96	5.00	2.40	0.00	2.40
17.50	2.00	0.96	5.00	2.40	0.00	2.40
17.55	2.00	0.96	5.00	2.40	0.00	2.40
17.60	2.00	0.96	5.00	2.40	0.00	2.40
17.65	2.00	0.97	5.00	2.40	0.00	2.40
17.70	2.00	0.97	5.00	2.40	0.00	2.40
17.75	2.00	0.97	5.00	2.40	0.00	2.40
17.80	2.00	0.97	5.00	2.40	0.00	2.40
17.85	2.00	0.97	5.00	2.40	0.00	2.40
17.90	2.00	0.97	5.00	2.40	0.00	2.40
17.95	2.00	0.97	5.00	2.40	0.00	2.40
18.00	2.00	0.97	5.00	2.40	0.00	2.40
18.05	2.00	0.97	5.00	2.40	0.00	2.40
18.10	2.00	0.97	5.00	2.40	0.00	2.40
18.15	2.00	0.97	5.00	2.40	0.00	2.40
18.20	2.00	0.97	5.00	2.40	0.00	2.40
18.25	2.00	0.97	5.00	2.40	0.00	2.40
18.30	2.00	0.97	5.00	2.40	0.00	2.40
18.35	2.00	0.97	5.00	2.40	0.00	2.40
18.40	2.00	0.97	5.00	2.40	0.00	2.40

18.45	2.00	0.97	5.00	2.40	0.00	2.40
18.50	2.00	0.97	5.00	2.40	0.00	2.40
18.55	2.00	0.97	5.00	2.40	0.00	2.40
18.60	2.00	0.97	5.00	2.40	0.00	2.40
18.65	2.00	0.97	5.00	2.40	0.00	2.40
18.70	2.00	0.98	5.00	2.40	0.00	2.40
18.75	2.00	0.98	5.00	2.40	0.00	2.40
18.80	2.00	0.98	5.00	2.40	0.00	2.40
18.85	2.00	0.98	5.00	2.40	0.00	2.40
18.90	2.00	0.98	5.00	2.40	0.00	2.40
18.95	2.00	0.98	5.00	2.40	0.00	2.40
19.00	2.00	0.98	5.00	2.40	0.00	2.40
19.05	2.00	0.98	5.00	2.40	0.00	2.40
19.10	2.00	0.98	5.00	2.40	0.00	2.40
19.15	2.00	0.98	5.00	2.40	0.00	2.40
19.20	2.00	0.98	5.00	2.40	0.00	2.40
19.25	2.00	0.98	5.00	2.40	0.00	2.40
19.30	2.00	0.98	5.00	2.40	0.00	2.40
19.35	1.12	0.98	1.14	2.40	0.00	2.40
19.40	0.83	0.98	0.84*	2.40	0.00	2.40
19.45	0.57	0.98	0.58*	2.40	0.00	2.40
19.50	0.45	0.98	0.46*	2.40	0.00	2.40
19.55	0.38	0.98	0.38*	2.40	0.00	2.40
19.60	0.32	0.98	0.33*	2.40	0.00	2.40
19.65	0.26	0.98	0.26*	2.40	0.00	2.40
19.70	0.19	0.98	0.19*	2.39	0.00	2.39
19.75	0.14	0.98	0.15*	2.38	0.00	2.38
19.80	0.15	0.98	0.15*	2.36	0.00	2.36
19.85	0.16	0.98	0.16*	2.35	0.00	2.35
19.90	0.17	0.98	0.17*	2.34	0.00	2.34
19.95	0.17	0.99	0.17*	2.33	0.00	2.33
20.00	0.17	0.99	0.18*	2.31	0.00	2.31
20.05	0.17	0.99	0.18*	2.30	0.00	2.30
20.10	0.17	0.99	0.17*	2.29	0.00	2.29
20.15	0.17	0.99	0.18*	2.28	0.00	2.28
20.20	0.18	0.99	0.18*	2.26	0.00	2.26
20.25	0.18	0.99	0.18*	2.25	0.00	2.25
20.30	0.18	0.99	0.18*	2.24	0.00	2.24
20.35	0.18	0.99	0.19*	2.23	0.00	2.23
20.40	0.18	0.99	0.18*	2.22	0.00	2.22
20.45	0.18	0.99	0.18*	2.20	0.00	2.20
20.50	0.18	0.99	0.18*	2.19	0.00	2.19
20.55	0.18	0.99	0.18*	2.18	0.00	2.18
20.60	0.18	0.99	0.18*	2.17	0.00	2.17
20.65	0.18	0.99	0.18*	2.15	0.00	2.15
20.70	0.18	0.99	0.18*	2.14	0.00	2.14
20.75	0.18	0.99	0.18*	2.13	0.00	2.13
20.80	0.19	0.99	0.19*	2.12	0.00	2.12
20.85	0.20	0.99	0.20*	2.11	0.00	2.11
20.90	0.20	0.99	0.21*	2.09	0.00	2.09

20.95	0.21	0.99	0.21*	2.08	0.00	2.08
21.00	0.22	0.99	0.22*	2.07	0.00	2.07
21.05	0.22	0.99	0.23*	2.06	0.00	2.06
21.10	0.22	0.99	0.22*	2.05	0.00	2.05
21.15	0.21	0.99	0.21*	2.04	0.00	2.04
21.20	0.20	0.99	0.20*	2.03	0.00	2.03
21.25	0.19	0.99	0.19*	2.02	0.00	2.02
21.30	0.19	0.99	0.19*	2.01	0.00	2.01
21.35	0.18	0.99	0.18*	1.99	0.00	1.99
21.40	0.18	0.99	0.19*	1.98	0.00	1.98
21.45	0.19	0.99	0.19*	1.97	0.00	1.97
21.50	0.19	1.00	0.19*	1.96	0.00	1.96
21.55	0.19	1.00	0.19*	1.95	0.00	1.95
21.60	0.18	1.00	0.19*	1.93	0.00	1.93
21.65	0.19	1.00	0.19*	1.92	0.00	1.92
21.70	0.19	1.00	0.19*	1.91	0.00	1.91
21.75	0.19	1.00	0.19*	1.90	0.00	1.90
21.80	0.20	1.00	0.20*	1.89	0.00	1.89
21.85	0.21	1.00	0.22*	1.88	0.00	1.88
21.90	0.23	1.00	0.23*	1.87	0.00	1.87
21.95	0.25	1.00	0.25*	1.86	0.00	1.86
22.00	0.26	1.00	0.27*	1.85	0.00	1.85
22.05	0.28	1.00	0.28*	1.84	0.00	1.84
22.10	0.28	1.00	0.28*	1.84	0.00	1.84
22.15	0.28	1.00	0.28*	1.83	0.00	1.83
22.20	0.27	1.00	0.27*	1.83	0.00	1.83
22.25	0.26	1.00	0.26*	1.82	0.00	1.82
22.30	0.25	1.00	0.25*	1.82	0.00	1.82
22.35	0.23	1.00	0.23*	1.81	0.00	1.81
22.40	0.22	1.00	0.22*	1.80	0.00	1.80
22.45	0.21	1.00	0.21*	1.79	0.00	1.79
22.50	0.20	1.00	0.19*	1.78	0.00	1.78
22.55	0.18	1.00	0.18*	1.77	0.00	1.77
22.60	0.16	1.00	0.16*	1.76	0.00	1.76
22.65	0.14	1.00	0.14*	1.74	0.00	1.74
22.70	0.14	1.00	0.14*	1.73	0.00	1.73
22.75	0.14	1.00	0.14*	1.72	0.00	1.72
22.80	0.14	1.00	0.14*	1.70	0.00	1.70
22.85	0.15	1.00	0.15*	1.69	0.00	1.69
22.90	0.16	1.00	0.16*	1.68	0.00	1.68
22.95	0.22	1.00	0.22*	1.66	0.00	1.66
23.00	2.00	1.00	5.00	1.66	0.00	1.66
23.05	2.00	1.00	5.00	1.66	0.00	1.66
23.10	2.00	1.00	5.00	1.66	0.00	1.66
23.15	2.00	1.00	5.00	1.66	0.00	1.66
23.20	2.00	1.00	5.00	1.66	0.00	1.66
23.25	2.00	1.00	5.00	1.66	0.00	1.66
23.30	2.00	1.00	5.00	1.66	0.00	1.66
23.35	2.00	1.00	5.00	1.66	0.00	1.66
23.40	2.00	1.01	5.00	1.66	0.00	1.66

23.45	2.00	1.01	5.00	1.66	0.00	1.66
23.50	2.00	1.01	5.00	1.66	0.00	1.66
23.55	2.00	1.01	5.00	1.66	0.00	1.66
23.60	2.00	1.01	5.00	1.66	0.00	1.66
23.65	2.00	1.01	5.00	1.66	0.00	1.66
23.70	2.00	1.01	5.00	1.66	0.00	1.66
23.75	2.00	1.01	5.00	1.66	0.00	1.66
23.80	2.00	1.01	5.00	1.66	0.00	1.66
23.85	2.00	1.01	5.00	1.66	0.00	1.66
23.90	2.00	1.01	5.00	1.66	0.00	1.66
23.95	2.00	1.01	5.00	1.66	0.00	1.66
24.00	2.00	1.01	5.00	1.66	0.00	1.66
24.05	2.00	1.01	5.00	1.66	0.00	1.66
24.10	2.00	1.01	5.00	1.66	0.00	1.66
24.15	2.00	1.01	5.00	1.66	0.00	1.66
24.20	2.00	1.01	5.00	1.66	0.00	1.66
24.25	2.00	1.01	5.00	1.66	0.00	1.66
24.30	2.00	1.01	5.00	1.66	0.00	1.66
24.35	2.00	1.01	5.00	1.66	0.00	1.66
24.40	2.00	1.01	5.00	1.66	0.00	1.66
24.45	2.00	1.01	5.00	1.66	0.00	1.66
24.50	2.00	1.01	5.00	1.66	0.00	1.66
24.55	2.00	1.01	5.00	1.66	0.00	1.66
24.60	2.00	1.01	5.00	1.66	0.00	1.66
24.65	2.00	1.01	5.00	1.66	0.00	1.66
24.70	2.00	1.01	5.00	1.66	0.00	1.66
24.75	2.00	1.01	5.00	1.66	0.00	1.66
24.80	2.00	1.01	5.00	1.66	0.00	1.66
24.85	2.00	1.01	5.00	1.66	0.00	1.66
24.90	2.00	1.01	5.00	1.66	0.00	1.66
24.95	2.00	1.01	5.00	1.66	0.00	1.66
25.00	2.00	1.01	5.00	1.66	0.00	1.66
25.05	0.27	1.01	0.26*	1.66	0.00	1.66
25.10	0.18	1.01	0.18*	1.66	0.00	1.66
25.15	0.16	1.01	0.16*	1.65	0.00	1.65
25.20	0.16	1.01	0.16*	1.63	0.00	1.63
25.25	0.17	1.01	0.16*	1.62	0.00	1.62
25.30	0.17	1.01	0.16*	1.61	0.00	1.61
25.35	0.16	1.01	0.16*	1.60	0.00	1.60
25.40	0.16	1.01	0.15*	1.59	0.00	1.59
25.45	0.15	1.01	0.15*	1.58	0.00	1.58
25.50	0.15	1.01	0.14*	1.57	0.00	1.57
25.55	0.14	1.01	0.14*	1.56	0.00	1.56
25.60	0.14	1.01	0.14*	1.54	0.00	1.54
25.65	0.12	1.02	0.12*	1.53	0.00	1.53
25.70	0.11	1.02	0.11*	1.52	0.00	1.52
25.75	0.11	1.02	0.11*	1.50	0.00	1.50
25.80	0.12	1.02	0.12*	1.48	0.00	1.48
25.85	0.12	1.02	0.12*	1.47	0.00	1.47
25.90	0.12	1.02	0.12*	1.46	0.00	1.46

25.95	0.13	1.02	0.12*	1.44	0.00	1.44
26.00	0.13	1.02	0.13*	1.43	0.00	1.43
26.05	0.14	1.02	0.14*	1.41	0.00	1.41
26.10	0.15	1.02	0.14*	1.40	0.00	1.40
26.15	0.16	1.02	0.16*	1.39	0.00	1.39
26.20	0.18	1.02	0.18*	1.38	0.00	1.38
26.25	0.22	1.02	0.21*	1.37	0.00	1.37
26.30	0.28	1.02	0.27*	1.36	0.00	1.36
26.35	0.41	1.02	0.41*	1.36	0.00	1.36
26.40	2.00	1.02	5.00	1.36	0.00	1.36
26.45	2.00	1.02	5.00	1.36	0.00	1.36
26.50	2.00	1.02	5.00	1.36	0.00	1.36
26.55	2.00	1.02	5.00	1.36	0.00	1.36
26.60	2.00	1.02	5.00	1.36	0.00	1.36
26.65	2.00	1.02	5.00	1.36	0.00	1.36
26.70	2.00	1.02	5.00	1.36	0.00	1.36
26.75	2.00	1.02	5.00	1.36	0.00	1.36
26.80	2.00	1.02	5.00	1.36	0.00	1.36
26.85	2.00	1.02	5.00	1.36	0.00	1.36
26.90	2.00	1.02	5.00	1.36	0.00	1.36
26.95	2.00	1.02	5.00	1.36	0.00	1.36
27.00	2.00	1.02	5.00	1.36	0.00	1.36
27.05	2.00	1.02	5.00	1.36	0.00	1.36
27.10	2.00	1.02	5.00	1.36	0.00	1.36
27.15	2.00	1.02	5.00	1.36	0.00	1.36
27.20	2.00	1.02	5.00	1.36	0.00	1.36
27.25	2.00	1.02	5.00	1.36	0.00	1.36
27.30	2.00	1.02	5.00	1.36	0.00	1.36
27.35	2.00	1.02	5.00	1.36	0.00	1.36
27.40	2.00	1.02	5.00	1.36	0.00	1.36
27.45	2.00	1.02	5.00	1.36	0.00	1.36
27.50	2.00	1.02	5.00	1.36	0.00	1.36
27.55	2.00	1.02	5.00	1.36	0.00	1.36
27.60	2.00	1.02	5.00	1.36	0.00	1.36
27.65	2.00	1.02	5.00	1.36	0.00	1.36
27.70	2.00	1.02	5.00	1.36	0.00	1.36
27.75	2.00	1.02	5.00	1.36	0.00	1.36
27.80	2.00	1.02	5.00	1.36	0.00	1.36
27.85	2.00	1.02	5.00	1.36	0.00	1.36
27.90	2.00	1.02	5.00	1.36	0.00	1.36
27.95	2.00	1.02	5.00	1.36	0.00	1.36
28.00	2.00	1.02	5.00	1.36	0.00	1.36
28.05	2.00	1.02	5.00	1.36	0.00	1.36
28.10	2.00	1.02	5.00	1.36	0.00	1.36
28.15	2.00	1.03	5.00	1.36	0.00	1.36
28.20	2.00	1.03	5.00	1.36	0.00	1.36
28.25	2.00	1.03	5.00	1.36	0.00	1.36
28.30	2.00	1.03	5.00	1.36	0.00	1.36
28.35	2.00	1.03	5.00	1.36	0.00	1.36
28.40	2.00	1.03	5.00	1.36	0.00	1.36

28.45	2.00	1.03	5.00	1.36	0.00	1.36
28.50	2.00	1.03	5.00	1.36	0.00	1.36
28.55	2.00	1.03	5.00	1.36	0.00	1.36
28.60	2.00	1.03	5.00	1.36	0.00	1.36
28.65	2.00	1.03	5.00	1.36	0.00	1.36
28.70	2.00	1.03	5.00	1.36	0.00	1.36
28.75	2.00	1.03	5.00	1.36	0.00	1.36
28.80	2.00	1.03	5.00	1.36	0.00	1.36
28.85	2.00	1.03	5.00	1.36	0.00	1.36
28.90	2.00	1.03	5.00	1.36	0.00	1.36
28.95	2.00	1.03	5.00	1.36	0.00	1.36
29.00	2.00	1.03	5.00	1.36	0.00	1.36
29.05	2.00	1.03	5.00	1.36	0.00	1.36
29.10	2.00	1.03	5.00	1.36	0.00	1.36
29.15	2.00	1.03	5.00	1.36	0.00	1.36
29.20	2.00	1.03	5.00	1.36	0.00	1.36
29.25	2.00	1.03	5.00	1.36	0.00	1.36
29.30	2.00	1.03	5.00	1.36	0.00	1.36
29.35	2.00	1.03	5.00	1.36	0.00	1.36
29.40	2.00	1.03	5.00	1.36	0.00	1.36
29.45	2.00	1.03	5.00	1.36	0.00	1.36
29.50	2.00	1.03	5.00	1.36	0.00	1.36
29.55	2.00	1.03	5.00	1.36	0.00	1.36
29.60	2.00	1.03	5.00	1.36	0.00	1.36
29.65	2.00	1.03	5.00	1.36	0.00	1.36
29.70	2.00	1.03	5.00	1.36	0.00	1.36
29.75	2.00	1.03	5.00	1.36	0.00	1.36
29.80	2.00	1.03	5.00	1.36	0.00	1.36
29.85	2.00	1.03	5.00	1.36	0.00	1.36
29.90	2.00	1.03	5.00	1.36	0.00	1.36
29.95	2.00	1.03	5.00	1.36	0.00	1.36
30.00	2.00	1.03	5.00	1.36	0.00	1.36
30.05	2.00	1.03	5.00	1.36	0.00	1.36
30.10	2.00	1.03	5.00	1.36	0.00	1.36
30.15	2.00	1.03	5.00	1.36	0.00	1.36
30.20	2.00	1.03	5.00	1.36	0.00	1.36
30.25	2.00	1.03	5.00	1.36	0.00	1.36
30.30	2.00	1.03	5.00	1.36	0.00	1.36
30.35	2.00	1.03	5.00	1.36	0.00	1.36
30.40	2.00	1.03	5.00	1.36	0.00	1.36
30.45	2.00	1.03	5.00	1.36	0.00	1.36
30.50	2.00	1.03	5.00	1.36	0.00	1.36
30.55	2.00	1.03	5.00	1.36	0.00	1.36
30.60	2.00	1.03	5.00	1.36	0.00	1.36
30.65	2.00	1.03	5.00	1.36	0.00	1.36
30.70	2.00	1.03	5.00	1.36	0.00	1.36
30.75	2.00	1.03	5.00	1.36	0.00	1.36
30.80	2.00	1.03	5.00	1.36	0.00	1.36
30.85	2.00	1.03	5.00	1.36	0.00	1.36
30.90	2.00	1.03	5.00	1.36	0.00	1.36

30.95	2.00	1.03	5.00	1.36	0.00	1.36
31.00	2.00	1.03	5.00	1.36	0.00	1.36
31.05	2.00	1.03	5.00	1.36	0.00	1.36
31.10	2.00	1.03	5.00	1.36	0.00	1.36
31.15	2.00	1.03	5.00	1.36	0.00	1.36
31.20	2.00	1.03	5.00	1.36	0.00	1.36
31.25	2.00	1.03	5.00	1.36	0.00	1.36
31.30	2.00	1.02	5.00	1.36	0.00	1.36
31.35	2.00	1.02	5.00	1.36	0.00	1.36
31.40	2.00	1.02	5.00	1.36	0.00	1.36
31.45	2.00	1.02	5.00	1.36	0.00	1.36
31.50	2.00	1.02	5.00	1.36	0.00	1.36
31.55	2.00	1.02	5.00	1.36	0.00	1.36
31.60	2.00	1.02	5.00	1.36	0.00	1.36
31.65	2.00	1.02	5.00	1.36	0.00	1.36
31.70	2.00	1.02	5.00	1.36	0.00	1.36
31.75	2.00	1.02	5.00	1.36	0.00	1.36
31.80	2.00	1.02	5.00	1.36	0.00	1.36
31.85	2.00	1.02	5.00	1.36	0.00	1.36
31.90	2.00	1.02	5.00	1.36	0.00	1.36
31.95	2.00	1.02	5.00	1.36	0.00	1.36
32.00	2.00	1.02	5.00	1.36	0.00	1.36
32.05	2.00	1.02	5.00	1.36	0.00	1.36
32.10	2.00	1.02	5.00	1.36	0.00	1.36
32.15	2.00	1.02	5.00	1.36	0.00	1.36
32.20	2.00	1.02	5.00	1.36	0.00	1.36
32.25	2.00	1.02	5.00	1.36	0.00	1.36
32.30	2.00	1.02	5.00	1.36	0.00	1.36
32.35	2.00	1.02	5.00	1.36	0.00	1.36
32.40	2.00	1.02	5.00	1.36	0.00	1.36
32.45	2.00	1.02	5.00	1.36	0.00	1.36
32.50	2.00	1.02	5.00	1.36	0.00	1.36
32.55	2.00	1.02	5.00	1.36	0.00	1.36
32.60	2.00	1.02	5.00	1.36	0.00	1.36
32.65	2.00	1.02	5.00	1.36	0.00	1.36
32.70	2.00	1.02	5.00	1.36	0.00	1.36
32.75	2.00	1.02	5.00	1.36	0.00	1.36
32.80	2.00	1.02	5.00	1.36	0.00	1.36
32.85	2.00	1.02	5.00	1.36	0.00	1.36
32.90	2.00	1.02	5.00	1.36	0.00	1.36
32.95	2.00	1.02	5.00	1.36	0.00	1.36
33.00	2.00	1.02	5.00	1.36	0.00	1.36
33.05	2.00	1.02	5.00	1.36	0.00	1.36
33.10	2.00	1.02	5.00	1.36	0.00	1.36
33.15	2.00	1.02	5.00	1.36	0.00	1.36
33.20	2.00	1.02	5.00	1.36	0.00	1.36
33.25	2.00	1.01	5.00	1.36	0.00	1.36
33.30	2.00	1.01	5.00	1.36	0.00	1.36
33.35	2.00	1.01	5.00	1.36	0.00	1.36
33.40	2.00	1.01	5.00	1.36	0.00	1.36

33.45	2.00	1.01	5.00	1.36	0.00	1.36
33.50	2.00	1.01	5.00	1.36	0.00	1.36
33.55	2.00	1.01	5.00	1.36	0.00	1.36
33.60	2.00	1.01	5.00	1.36	0.00	1.36
33.65	2.00	1.01	5.00	1.36	0.00	1.36
33.70	2.00	1.01	5.00	1.36	0.00	1.36
33.75	2.00	1.01	5.00	1.36	0.00	1.36
33.80	2.00	1.01	5.00	1.36	0.00	1.36
33.85	2.00	1.01	5.00	1.36	0.00	1.36
33.90	2.00	1.01	5.00	1.36	0.00	1.36
33.95	2.00	1.01	5.00	1.36	0.00	1.36
34.00	2.00	1.01	5.00	1.36	0.00	1.36
34.05	0.29	1.01	0.28*	1.36	0.00	1.36
34.10	0.22	1.01	0.22*	1.36	0.00	1.36
34.15	0.19	1.01	0.19*	1.35	0.00	1.35
34.20	0.17	1.01	0.17*	1.34	0.00	1.34
34.25	0.16	1.01	0.16*	1.33	0.00	1.33
34.30	0.15	1.01	0.15*	1.32	0.00	1.32
34.35	0.15	1.01	0.15*	1.30	0.00	1.30
34.40	0.15	1.01	0.15*	1.29	0.00	1.29
34.45	0.15	1.01	0.15*	1.28	0.00	1.28
34.50	0.15	1.01	0.15*	1.26	0.00	1.26
34.55	0.15	1.01	0.15*	1.25	0.00	1.25
34.60	0.15	1.01	0.15*	1.24	0.00	1.24
34.65	0.15	1.01	0.15*	1.22	0.00	1.22
34.70	0.16	1.01	0.16*	1.21	0.00	1.21
34.75	0.16	1.01	0.16*	1.19	0.00	1.19
34.80	0.16	1.01	0.16*	1.18	0.00	1.18
34.85	0.16	1.01	0.16*	1.17	0.00	1.17
34.90	0.17	1.01	0.17*	1.15	0.00	1.15
34.95	0.17	1.01	0.17*	1.14	0.00	1.14
35.00	0.18	1.01	0.18*	1.13	0.00	1.13
35.05	0.19	1.00	0.19*	1.11	0.00	1.11
35.10	0.20	1.00	0.20*	1.10	0.00	1.10
35.15	0.22	1.00	0.22*	1.09	0.00	1.09
35.20	0.24	1.00	0.24*	1.08	0.00	1.08
35.25	0.27	1.00	0.27*	1.06	0.00	1.06
35.30	0.29	1.00	0.29*	1.05	0.00	1.05
35.35	0.32	1.00	0.31*	1.04	0.00	1.04
35.40	0.34	1.00	0.34*	1.03	0.00	1.03
35.45	0.35	1.00	0.35*	1.02	0.00	1.02
35.50	0.37	1.00	0.37*	1.01	0.00	1.01
35.55	0.38	1.00	0.38*	1.00	0.00	1.00
35.60	0.39	1.00	0.39*	0.99	0.00	0.99
35.65	0.40	1.00	0.40*	0.98	0.00	0.98
35.70	0.41	1.00	0.41*	0.97	0.00	0.97
35.75	0.41	1.00	0.41*	0.96	0.00	0.96
35.80	0.42	1.00	0.42*	0.96	0.00	0.96
35.85	0.42	1.00	0.42*	0.95	0.00	0.95
35.90	0.42	1.00	0.42*	0.94	0.00	0.94

35.95	0.42	1.00	0.42*	0.93	0.00	0.93
36.00	0.42	1.00	0.42*	0.92	0.00	0.92
36.05	0.42	1.00	0.42*	0.92	0.00	0.92
36.10	0.41	1.00	0.41*	0.91	0.00	0.91
36.15	0.41	1.00	0.41*	0.90	0.00	0.90
36.20	0.39	1.00	0.40*	0.89	0.00	0.89
36.25	0.38	1.00	0.38*	0.89	0.00	0.89
36.30	0.36	1.00	0.36*	0.88	0.00	0.88
36.35	0.36	1.00	0.37*	0.87	0.00	0.87
36.40	0.37	1.00	0.37*	0.87	0.00	0.87
36.45	0.37	1.00	0.37*	0.86	0.00	0.86
36.50	0.37	1.00	0.37*	0.85	0.00	0.85
36.55	0.36	1.00	0.36*	0.84	0.00	0.84
36.60	0.35	1.00	0.35*	0.84	0.00	0.84
36.65	0.34	1.00	0.34*	0.83	0.00	0.83
36.70	0.34	1.00	0.34*	0.82	0.00	0.82
36.75	0.36	0.99	0.36*	0.81	0.00	0.81
36.80	0.37	0.99	0.38*	0.80	0.00	0.80
36.85	0.39	0.99	0.39*	0.79	0.00	0.79
36.90	0.41	0.99	0.41*	0.78	0.00	0.78
36.95	0.41	0.99	0.42*	0.77	0.00	0.77
37.00	0.42	0.99	0.42*	0.77	0.00	0.77
37.05	0.42	0.99	0.42*	0.76	0.00	0.76
37.10	0.42	0.99	0.43*	0.75	0.00	0.75
37.15	0.42	0.99	0.43*	0.74	0.00	0.74
37.20	0.42	0.99	0.43*	0.73	0.00	0.73
37.25	0.42	0.99	0.42*	0.73	0.00	0.73
37.30	0.42	0.99	0.42*	0.72	0.00	0.72
37.35	0.41	0.99	0.42*	0.71	0.00	0.71
37.40	0.41	0.99	0.41*	0.70	0.00	0.70
37.45	0.40	0.99	0.40*	0.69	0.00	0.69
37.50	0.40	0.99	0.40*	0.69	0.00	0.69
37.55	0.41	0.99	0.42*	0.68	0.00	0.68
37.60	0.44	0.99	0.45*	0.67	0.00	0.67
37.65	0.48	0.99	0.48*	0.66	0.00	0.66
37.70	0.52	0.99	0.53*	0.66	0.00	0.66
37.75	0.56	0.99	0.57*	0.65	0.00	0.65
37.80	0.61	0.99	0.61*	0.65	0.00	0.65
37.85	0.62	0.99	0.63*	0.64	0.00	0.64
37.90	0.63	0.99	0.64*	0.64	0.00	0.64
37.95	0.63	0.99	0.64*	0.64	0.00	0.64
38.00	0.63	0.99	0.64*	0.64	0.00	0.64
38.05	0.63	0.99	0.64*	0.63	0.00	0.63
38.10	0.63	0.99	0.64*	0.63	0.00	0.63
38.15	0.63	0.99	0.64*	0.63	0.00	0.63
38.20	0.64	0.99	0.65*	0.63	0.00	0.63
38.25	0.67	0.99	0.68*	0.63	0.00	0.63
38.30	0.71	0.98	0.72*	0.63	0.00	0.63
38.35	0.75	0.98	0.76*	0.63	0.00	0.63
38.40	0.79	0.98	0.81*	0.63	0.00	0.63

38.45	0.83	0.98	0.84*	0.63	0.00	0.63
38.50	0.86	0.98	0.88*	0.63	0.00	0.63
38.55	0.89	0.98	0.90*	0.63	0.00	0.63
38.60	0.90	0.98	0.92*	0.63	0.00	0.63
38.65	0.91	0.98	0.93*	0.63	0.00	0.63
38.70	0.92	0.98	0.93*	0.63	0.00	0.63
38.75	0.92	0.98	0.94*	0.63	0.00	0.63
38.80	0.92	0.98	0.94*	0.63	0.00	0.63
38.85	0.93	0.98	0.94*	0.63	0.00	0.63
38.90	0.93	0.98	0.94*	0.63	0.00	0.63
38.95	0.93	0.98	0.95*	0.63	0.00	0.63
39.00	0.93	0.98	0.95*	0.63	0.00	0.63
39.05	0.93	0.98	0.94*	0.63	0.00	0.63
39.10	0.92	0.98	0.94*	0.63	0.00	0.63
39.15	0.91	0.98	0.93*	0.63	0.00	0.63
39.20	0.89	0.98	0.91*	0.63	0.00	0.63
39.25	0.83	0.98	0.84*	0.63	0.00	0.63
39.30	0.71	0.98	0.73*	0.63	0.00	0.63
39.35	0.66	0.98	0.68*	0.63	0.00	0.63
39.40	0.67	0.98	0.68*	0.63	0.00	0.63
39.45	0.67	0.98	0.69*	0.63	0.00	0.63
39.50	0.68	0.98	0.70*	0.63	0.00	0.63
39.55	0.67	0.98	0.68*	0.63	0.00	0.63
39.60	0.65	0.98	0.66*	0.63	0.00	0.63
39.65	0.63	0.98	0.65*	0.63	0.00	0.63
39.70	0.67	0.98	0.68*	0.63	0.00	0.63
39.75	0.70	0.98	0.72*	0.63	0.00	0.63
39.80	0.72	0.97	0.74*	0.63	0.00	0.63
39.85	0.74	0.97	0.76*	0.63	0.00	0.63
39.90	0.75	0.97	0.77*	0.63	0.00	0.63
39.95	0.75	0.97	0.77*	0.63	0.00	0.63
40.00	0.75	0.97	0.77*	0.63	0.00	0.63
40.05	0.75	0.97	0.77*	0.63	0.00	0.63
40.10	0.75	0.97	0.77*	0.63	0.00	0.63
40.15	0.75	0.97	0.77*	0.63	0.00	0.63
40.20	0.75	0.97	0.77*	0.63	0.00	0.63
40.25	0.75	0.97	0.77*	0.63	0.00	0.63
40.30	0.76	0.97	0.78*	0.63	0.00	0.63
40.35	0.76	0.97	0.79*	0.63	0.00	0.63
40.40	0.77	0.97	0.79*	0.63	0.00	0.63
40.45	0.78	0.97	0.81*	0.63	0.00	0.63
40.50	0.79	0.97	0.81*	0.63	0.00	0.63
40.55	0.79	0.97	0.82*	0.63	0.00	0.63
40.60	0.79	0.97	0.81*	0.63	0.00	0.63
40.65	0.78	0.97	0.80*	0.63	0.00	0.63
40.70	0.76	0.97	0.79*	0.63	0.00	0.63
40.75	0.74	0.97	0.76*	0.63	0.00	0.63
40.80	0.72	0.97	0.74*	0.63	0.00	0.63
40.85	0.69	0.97	0.72*	0.63	0.00	0.63
40.90	0.68	0.97	0.70*	0.63	0.00	0.63

40.95	0.66	0.97	0.69*	0.63	0.00	0.63
41.00	0.65	0.97	0.68*	0.63	0.00	0.63
41.05	0.64	0.97	0.66*	0.63	0.00	0.63
41.10	0.63	0.97	0.65*	0.63	0.00	0.63
41.15	0.61	0.97	0.64*	0.63	0.00	0.63
41.20	0.59	0.97	0.62*	0.63	0.00	0.63
41.25	0.58	0.96	0.60*	0.63	0.00	0.63
41.30	0.58	0.96	0.60*	0.63	0.00	0.63
41.35	0.56	0.96	0.58*	0.63	0.00	0.63
41.40	0.54	0.96	0.56*	0.63	0.00	0.63
41.45	0.54	0.96	0.57*	0.63	0.00	0.63
41.50	0.56	0.96	0.58*	0.62	0.00	0.62
41.55	0.57	0.96	0.60*	0.62	0.00	0.62
41.60	0.58	0.96	0.61*	0.62	0.00	0.62
41.65	0.60	0.96	0.62*	0.62	0.00	0.62
41.70	0.60	0.96	0.62*	0.61	0.00	0.61
41.75	0.58	0.96	0.61*	0.61	0.00	0.61
41.80	0.56	0.96	0.59*	0.61	0.00	0.61
41.85	0.54	0.96	0.57*	0.60	0.00	0.60
41.90	0.49	0.96	0.51*	0.60	0.00	0.60
41.95	0.40	0.96	0.42*	0.60	0.00	0.60
42.00	0.45	0.96	0.46*	0.59	0.00	0.59
42.05	0.44	0.96	0.46*	0.58	0.00	0.58
42.10	0.43	0.96	0.45*	0.57	0.00	0.57
42.15	0.43	0.96	0.45*	0.57	0.00	0.57
42.20	0.44	0.96	0.46*	0.56	0.00	0.56
42.25	0.47	0.96	0.49*	0.55	0.00	0.55
42.30	0.49	0.96	0.51*	0.55	0.00	0.55
42.35	0.50	0.96	0.52*	0.54	0.00	0.54
42.40	0.50	0.96	0.52*	0.54	0.00	0.54
42.45	0.47	0.96	0.50*	0.53	0.00	0.53
42.50	0.45	0.96	0.47*	0.53	0.00	0.53
42.55	0.42	0.96	0.44*	0.52	0.00	0.52
42.60	0.39	0.96	0.41*	0.51	0.00	0.51
42.65	0.38	0.96	0.39*	0.50	0.00	0.50
42.70	0.37	0.95	0.38*	0.49	0.00	0.49
42.75	0.35	0.95	0.37*	0.49	0.00	0.49
42.80	0.33	0.95	0.35*	0.48	0.00	0.48
42.85	0.31	0.95	0.33*	0.47	0.00	0.47
42.90	0.30	0.95	0.32*	0.46	0.00	0.46
42.95	0.29	0.95	0.31*	0.45	0.00	0.45
43.00	0.29	0.95	0.31*	0.44	0.00	0.44
43.05	0.29	0.95	0.31*	0.44	0.00	0.44
43.10	0.29	0.95	0.31*	0.43	0.00	0.43
43.15	0.30	0.95	0.31*	0.42	0.00	0.42
43.20	0.30	0.95	0.31*	0.42	0.00	0.42
43.25	0.30	0.95	0.32*	0.41	0.00	0.41
43.30	0.30	0.95	0.32*	0.40	0.00	0.40
43.35	0.31	0.95	0.32*	0.40	0.00	0.40
43.40	0.31	0.95	0.32*	0.39	0.00	0.39

43.45	0.31	0.95	0.32*	0.38	0.00	0.38
43.50	0.31	0.95	0.33*	0.37	0.00	0.37
43.55	0.32	0.95	0.34*	0.36	0.00	0.36
43.60	0.33	0.95	0.35*	0.36	0.00	0.36
43.65	0.35	0.95	0.37*	0.35	0.00	0.35
43.70	0.36	0.95	0.38*	0.34	0.00	0.34
43.75	0.38	0.95	0.40*	0.33	0.00	0.33
43.80	0.38	0.95	0.40*	0.32	0.00	0.32
43.85	0.39	0.95	0.41*	0.32	0.00	0.32
43.90	0.39	0.95	0.41*	0.31	0.00	0.31
43.95	0.39	0.95	0.41*	0.30	0.00	0.30
44.00	0.39	0.95	0.41*	0.30	0.00	0.30
44.05	0.38	0.94	0.41*	0.29	0.00	0.29
44.10	0.38	0.94	0.41*	0.28	0.00	0.28
44.15	0.38	0.94	0.41*	0.27	0.00	0.27
44.20	0.38	0.94	0.41*	0.27	0.00	0.27
44.25	0.38	0.94	0.40*	0.26	0.00	0.26
44.30	0.38	0.94	0.40*	0.25	0.00	0.25
44.35	0.36	0.94	0.39*	0.24	0.00	0.24
44.40	0.35	0.94	0.37*	0.24	0.00	0.24
44.45	0.33	0.94	0.35*	0.23	0.00	0.23
44.50	0.32	0.94	0.34*	0.22	0.00	0.22
44.55	0.32	0.94	0.34*	0.21	0.00	0.21
44.60	0.33	0.94	0.35*	0.20	0.00	0.20
44.65	0.33	0.94	0.35*	0.20	0.00	0.20
44.70	0.33	0.94	0.35*	0.19	0.00	0.19
44.75	0.32	0.94	0.34*	0.19	0.00	0.19
44.80	0.31	0.94	0.33*	0.18	0.00	0.18
44.85	0.31	0.94	0.33*	0.17	0.00	0.17
44.90	0.29	0.94	0.31*	0.17	0.00	0.17
44.95	0.28	0.94	0.30*	0.16	0.00	0.16
45.00	0.26	0.94	0.28*	0.15	0.00	0.15
45.05	0.25	0.94	0.27*	0.14	0.00	0.14
45.10	0.24	0.94	0.26*	0.13	0.00	0.13
45.15	0.23	0.94	0.25*	0.12	0.00	0.12
45.20	0.22	0.94	0.23*	0.11	0.00	0.11
45.25	0.21	0.94	0.23*	0.10	0.00	0.10
45.30	0.21	0.94	0.22*	0.09	0.00	0.09
45.35	0.21	0.94	0.22*	0.08	0.00	0.08
45.40	0.22	0.93	0.24*	0.07	0.00	0.07
45.45	0.28	0.93	0.29*	0.06	0.00	0.06
45.50	2.00	0.93	5.00	0.06	0.00	0.06
45.55	2.00	0.93	5.00	0.06	0.00	0.06
45.60	2.00	0.93	5.00	0.06	0.00	0.06
45.65	2.00	0.93	5.00	0.06	0.00	0.06
45.70	2.00	0.93	5.00	0.06	0.00	0.06
45.75	2.00	0.93	5.00	0.06	0.00	0.06
45.80	2.00	0.93	5.00	0.06	0.00	0.06
45.85	2.00	0.93	5.00	0.06	0.00	0.06
45.90	2.00	0.93	5.00	0.06	0.00	0.06

45.95	2.00	0.93	5.00	0.06	0.00	0.06
46.00	2.00	0.93	5.00	0.06	0.00	0.06
46.05	2.00	0.93	5.00	0.06	0.00	0.06
46.10	2.00	0.93	5.00	0.06	0.00	0.06
46.15	2.00	0.93	5.00	0.06	0.00	0.06
46.20	2.00	0.93	5.00	0.06	0.00	0.06
46.25	2.00	0.93	5.00	0.06	0.00	0.06
46.30	2.00	0.93	5.00	0.06	0.00	0.06
46.35	2.00	0.93	5.00	0.06	0.00	0.06
46.40	2.00	0.93	5.00	0.06	0.00	0.06
46.45	2.00	0.93	5.00	0.06	0.00	0.06
46.50	2.00	0.93	5.00	0.06	0.00	0.06
46.55	2.00	0.93	5.00	0.06	0.00	0.06
46.60	2.00	0.93	5.00	0.06	0.00	0.06
46.65	2.00	0.93	5.00	0.06	0.00	0.06
46.70	2.00	0.92	5.00	0.06	0.00	0.06
46.75	2.00	0.92	5.00	0.06	0.00	0.06
46.80	2.00	0.92	5.00	0.06	0.00	0.06
46.85	2.00	0.92	5.00	0.06	0.00	0.06
46.90	2.00	0.92	5.00	0.06	0.00	0.06
46.95	2.00	0.92	5.00	0.06	0.00	0.06
47.00	2.00	0.92	5.00	0.06	0.00	0.06
47.05	2.00	0.92	5.00	0.06	0.00	0.06
47.10	2.00	0.92	5.00	0.06	0.00	0.06
47.15	2.00	0.92	5.00	0.06	0.00	0.06
47.20	2.00	0.92	5.00	0.06	0.00	0.06
47.25	2.00	0.92	5.00	0.06	0.00	0.06
47.30	2.00	0.92	5.00	0.06	0.00	0.06
47.35	2.00	0.92	5.00	0.06	0.00	0.06
47.40	2.00	0.92	5.00	0.06	0.00	0.06
47.45	2.00	0.92	5.00	0.06	0.00	0.06
47.50	2.00	0.92	5.00	0.06	0.00	0.06
47.55	2.00	0.92	5.00	0.06	0.00	0.06
47.60	2.00	0.92	5.00	0.06	0.00	0.06
47.65	2.00	0.92	5.00	0.06	0.00	0.06
47.70	2.00	0.92	5.00	0.06	0.00	0.06
47.75	2.00	0.92	5.00	0.06	0.00	0.06
47.80	2.00	0.92	5.00	0.06	0.00	0.06
47.85	2.00	0.92	5.00	0.06	0.00	0.06
47.90	2.00	0.92	5.00	0.06	0.00	0.06
47.95	0.62	0.91	0.68*	0.06	0.00	0.06
48.00	0.48	0.91	0.52*	0.06	0.00	0.06
48.05	0.45	0.91	0.49*	0.06	0.00	0.06
48.10	0.45	0.91	0.50*	0.06	0.00	0.06
48.15	0.46	0.91	0.51*	0.06	0.00	0.06
48.20	0.47	0.91	0.52*	0.06	0.00	0.06
48.25	0.48	0.91	0.53*	0.06	0.00	0.06
48.30	0.48	0.91	0.53*	0.06	0.00	0.06
48.35	0.49	0.91	0.53*	0.06	0.00	0.06
48.40	0.48	0.91	0.53*	0.06	0.00	0.06

48.45	0.48	0.91	0.52*	0.06	0.00	0.06
48.50	0.47	0.91	0.51*	0.06	0.00	0.06
48.55	0.46	0.91	0.50*	0.06	0.00	0.06
48.60	0.45	0.91	0.49*	0.06	0.00	0.06
48.65	0.44	0.91	0.49*	0.06	0.00	0.06
48.70	0.43	0.91	0.47*	0.06	0.00	0.06
48.75	0.40	0.91	0.45*	0.06	0.00	0.06
48.80	0.38	0.91	0.42*	0.06	0.00	0.06
48.85	0.36	0.91	0.39*	0.06	0.00	0.06
48.90	0.33	0.91	0.37*	0.05	0.00	0.05
48.95	0.32	0.91	0.35*	0.05	0.00	0.05
49.00	0.30	0.91	0.33*	0.04	0.00	0.04
49.05	0.29	0.91	0.33*	0.03	0.00	0.03
49.10	0.29	0.91	0.32*	0.03	0.00	0.03
49.15	0.31	0.91	0.34*	0.02	0.00	0.02
49.20	0.40	0.90	0.44*	0.02	0.00	0.02
49.25	2.00	0.90	5.00	0.02	0.00	0.02
49.30	2.00	0.90	5.00	0.02	0.00	0.02
49.35	2.00	0.90	5.00	0.02	0.00	0.02
49.40	2.00	0.90	5.00	0.02	0.00	0.02
49.45	2.00	0.90	5.00	0.02	0.00	0.02
49.50	2.00	0.90	5.00	0.02	0.00	0.02
49.55	2.00	0.90	5.00	0.02	0.00	0.02
49.60	2.00	0.90	5.00	0.02	0.00	0.02
49.65	2.00	0.90	5.00	0.02	0.00	0.02
49.70	2.00	0.90	5.00	0.02	0.00	0.02
49.75	2.00	0.90	5.00	0.02	0.00	0.02
49.80	2.00	0.90	5.00	0.02	0.00	0.02
49.85	2.00	0.90	5.00	0.02	0.00	0.02
49.90	2.00	0.90	5.00	0.02	0.00	0.02
49.95	2.00	0.90	5.00	0.02	0.00	0.02
50.00	0.10	0.90	0.12*	0.02	0.00	0.02
50.05	2.00	0.90	5.00	0.00	0.00	0.00
50.10	2.00	0.90	5.00	0.00	0.00	0.00
50.15	2.00	0.90	5.00	0.00	0.00	0.00
50.20	2.00	0.90	5.00	0.00	0.00	0.00
50.25	2.00	0.90	5.00	0.00	0.00	0.00
50.30	2.00	0.90	5.00	0.00	0.00	0.00
50.35	2.00	0.90	5.00	0.00	0.00	0.00
50.40	2.00	0.90	5.00	0.00	0.00	0.00
50.45	2.00	0.89	5.00	0.00	0.00	0.00
50.50	2.00	0.89	5.00	0.00	0.00	0.00
50.55	2.00	0.89	5.00	0.00	0.00	0.00
50.60	2.00	0.89	5.00	0.00	0.00	0.00
50.65	2.00	0.89	5.00	0.00	0.00	0.00
50.70	2.00	0.89	5.00	0.00	0.00	0.00
50.75	2.00	0.89	5.00	0.00	0.00	0.00
50.80	2.00	0.89	5.00	0.00	0.00	0.00
50.85	2.00	0.89	5.00	0.00	0.00	0.00
50.90	2.00	0.89	5.00	0.00	0.00	0.00

50.95	2.00	0.89	5.00	0.00	0.00	0.00
51.00	2.00	0.89	5.00	0.00	0.00	0.00

* F.S.<1, Liquefaction Potential Zone
(F.S. is limited to 5, CRR is limited to 2, CSR is limited to 2)

Units: Unit: qc, fs, Stress or Pressure = atm (1.0581tsf); Unit Weight = pcf; Depth = ft; Settlement = in.

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1 atm (atmosphere) = 1 tsf (ton/ft2)
CRRm Cyclic resistance ratio from soils
CSRsf Cyclic stress ratio induced by a given earthquake (with user request factor of safety)
F.S. Factor of Safety against liquefaction, F.S.=CRRm/CSRsf
S_sat Settlement from saturated sands
S_dry Settlement from Unsaturated Sands
S_all Total Settlement from Saturated and Unsaturated Sands
NoLiq No-Liquefy Soils

Attachment C . ..... Worksheet "B" - DCV Calculations

Worksheet B: Simple Design Capture Volume Sizing Method AREA A

Step 1: Determine the design capture storm depth used for calculating volume				
1	Enter design capture storm depth from Figure III.1, *d* (inches)	d=	0.85	inches
2	Enter the effect of provided HSCs, d_{HSC} (inches) (Worksheet A)	d_{HSC}=	0	inches
3	Calculate the remainder of the design capture storm depth, $d_{remainder}$ (inches) (Line 1 – Line 2)	$d_{remainder}$=	0.85	inches
Step 2: Calculate the DCV				
1	Enter Project area tributary to BMP (s), *A* (acres)	A=	8.45	acres
2	Enter Project Imperviousness, *imp* (unitless)	imp=	0.92	
3	Calculate runoff coefficient, *C= (0.75 x imp) + 0.15*	C=	0.84	
4	Calculate runoff volume, V_{design}= *(C x* $d_{remainder}$ *x A x 43560 x (1/12))*	V_{design}=	25,766	cu-ft
Step 3: Design BMPs to ensure full retention of the DCV				
Step 3a: Determine design infiltration rate				
1	Enter measured infiltration rate, $K_{observed}$[1] (in/hr) (**Appendix VII**)	$K_{observed}$=	xxx	In/hr
2	Enter combined safety factor from Worksheet H, S_{total} (unitless)	S_{total}=	xxx	
3	Calculate design infiltration rate, $K_{design} = K_{observed} / S_{total}$	K_{design}=	xxx	In/hr
Step 3b: Determine minimum BMP footprint				
4	Enter drawdown time, *T* (max 48 hours)	T=	48	Hours
5	Calculate max retention depth that can be drawn down within the drawdown time (feet), $D_{max} = K_{design} x T x (1/12)$	D_{max}=	xxx	feet
6	Calculate minimum area required for BMP (sq-ft), $A_{min} = V_{design} / d_{max}$	A_{min}=	xxx	sq-ft

[1] $K_{observed}$ is the vertical infiltration measured in the field, before applying a factor of safety. If field testing measures a rate that is different than the vertical infiltration rate (for example, three-dimensional borehole percolation rate), then this rate must be adjusted by an acceptable method (for example, Porchet method) to yield the field estimate of vertical infiltration rate, $K_{observed}$. See Appendix VII.

Attachment D . ..... Worksheet "I" – Groundwater Feasibility

Worksheet I: Summary of Groundwater-related Feasibility Criteria

1	Is project large or small? (as defined by **Table VIII.2**) circle one	Large	Small	
2	What is the tributary area to the BMP?	A	8.45	acres
3	What type of BMP is proposed?	Modular Bio-Filtration		
4	What is the infiltrating surface area of the proposed BMP?	A_{BMP}	N/A	sq-ft
5	What land use activities are present in the tributary area (list all) Industrial			
6	What land use-based risk category is applicable?	(L)	M	H
7	If M or H, what pretreatment and source isolation BMPs have been considered and are proposed (describe all): Inlet filters and hydrodynamic separator			
8	What minimum separation to mounded seasonally high groundwater applies to the proposed BMP? See Section **VIII.2** (circle one)	(5 ft)	10 ft	
9	Provide rationale for selection of applicable minimum separation to seasonally high mounded groundwater: Soils Report indicates that the historic high groundwater level for the site is approximately 6-9 feet below the ground surface.			
10	What is separation from the infiltrating surface to seasonally high groundwater?	SHGWT	2'	ft
11	What is separation from the infiltrating surface to mounded seasonally high groundwater?	Mounded SHGWT	N/A	ft
12	Describe assumptions and methods used for mounding analysis: N/A			
13	Is the site within a plume protection boundary (See **Figure**	Y	(N)	N/A

Worksheet I: Summary of Groundwater-related Feasibility Criteria

	VIII.2)?	
14	Is the site within a selenium source area or other natural plume area (See Figure VIII.2)?	Y (N) N/A
15	Is the site within 250 feet of a contaminated site?	Y (N) N/A
16	If site-specific study has been prepared, provide citation and briefly summarize relevant findings: No	
17	Is the site within 100 feet of a water supply well, spring, septic system?	Y (N) N/A
18	Is infiltration feasible on the site relative to groundwater-related criteria?	Y (N)
Provide rationale for feasibility determination: Due to high groundwater elevations relative to the surface elevations make traditional infiltration BMPs infeasible considering OCTGD groundwater separation minimums.		

Note: if a single criterion or group of criteria would render infiltration infeasible, it is not necessary to evaluate every question in this worksheet.

Attachment E.. .....Storage System Drawdown Calculation

Attachment F.. ..... Maintenance Covenant & Operations and Maintenance Plan

Operations and Maintenance (O&M) Plan
Maintenance Covenant and Agreement

Preliminary
Water Quality Management Plan for

GCC CYPRESS BUILDING 3

5665 Plaza Drive

APN: 241-101-25

PCL 2 LLA 2000-03

Prepared For:

GLC CYPRESS LLC

949-407-0118

Blair.Dahl@goodman.com

Prepared On:

9/20/23

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Site Plan 12
Maintenance Materials 27

Attachments

Attachment A .... Record of BMP Implementation, Maintenance, and Inspection
Attachment B .... Notice of Transfer of Responsibility
Attachment C .... Owners Manuals

Recording Requested by:
City of Cypress
Engineering Division

When Recorded Mail to:
CITY OF CYPRESS
ATTN: ENGINEERING DIVISION
PO BOX 609
CYPRESS, CA 90630

THIS SPACE IS FOR RECORDER'S USE

The undersigned grantor declares that this transaction is exempt for the payment of a documentary transfer tax pursuant to Revenue and Taxation Code section 11922.

This document is being recorded for the benefit of the City of Cypress and is exempt from payment of a recordation fee pursuant to Government Code Section 27383.

COVENANT AND AGREEMENT REGARDING OPERATIONS AND MAINTENANCE PLAN TO FUND AND MAINTAIN WATER QUALITY BMPS, CONSENT TO INSPECT, AND INDEMNIFICATION

This Agreement Regarding Operations and Maintenance Plan to Fund and Maintain Water Quality BMPs, Consent to Inspect and Indemnification and Covenant Running With the Land ("Agreement") is made on this ___ day of _____, 202_, by and between The City of Cypress, a California municipal corporation ("Covenantee" or "City") and the undersigned property owner(s) ("Covenanter").

RECITALS

A. Covenanter is the owner of the following real property ("Property") at **5757 Plaza Drive, Cypress CA, Parcel 3 of Lot Line Adjustment 2000-03, APN: 241-101-26.**

B. The City is the owner of interests in that certain real property within the city of Cypress, County of Orange, State of California, containing storm drains, pipelines, and related appurtenances constituting the City's municipal separate storm sewer system (the City's "Storm Drain System").

C. Covenanter intends to develop, improve, and/or use the Property in such a way that approval of the City for such development, improvement, and/or use is required pursuant to applicable laws.

D. As a condition for said approval by the City, City required Covenanter, and Covenanter desires to, restrict the use of property according to the conditions, covenants, equitable servitudes, and restrictions contained herein for the express benefit of the City's Storm Drain System.

NOW, THEREFORE, incorporating the foregoing Recitals and in consideration thereof, in consideration of the covenants and conditions contained herein, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and expressly for the benefit of, and to bind, their successors in interest, the parties hereto agree as follows:

AGREEMENT

1. Operations and Maintenance ("O&M") Plan for Best Management Practices ("BMPs")

Covenanter, and each successive owner of an interest in all or any part of the Property ("Owner(s)") shall, throughout the period of their respective ownership, implement, and fund implementation of, the O&M Plan for the Property, which was approved by the City as part of the Water Quality Management Plan ("WQMP") required for development of the Property, and shall operate and maintain the BMPs described in the O&M Plan for the Property, which includes:

a. Description of all post-construction BMPs (non-structural and structural),
b. Description of the Property owner's(s') responsibilities and required training of persons performing BMP implementation, operation and maintenance,
c. Implementation frequency and operating schedule,
d. Inspection/Maintenance frequency and schedule,
e. Specific maintenance activities,
f. Required permits from resource agencies, if any,
g. Forms to be used in documenting implementation, operation and maintenance activities,
h. Recordkeeping requirements.

A copy of the approved O&M Plan is described in the current WQMP for the project, as it may be amended from time to time according to its terms, which is on file with the City of Cypress Engineering department, and is incorporated herein by reference.

2. Compliance with Cypress City Code and Consent to Inspect

Owners shall use and maintain the property in full compliance with the provisions of the O&M Plan and the Cypress City Code section 13.21 et seq., as it may be amended from time to time. Owners hereby consent to inspection of the Property by an inspector authorized by the City Manager, or his or her designee, for the purpose for verifying compliance with the provisions of this Agreement.

3. Indemnification

Owners agree to indemnify, defend, and hold harmless the City, its elected officers, employees, agents, and contractors from and against any and all liability, expense, including costs and legal fees, and claims of damage of any nature whatsoever including, but not limited to, death, bodily injury, personal injury, or property damage arising from or connected with the City inspection of the Property expect where such liability, expense, or claim for damage results from the sole negligence or willful misconduct of the City.

4. Rights and Obligations Run with the Land

Unless terminated in accordance with paragraph 5 below, or by law, the rights and obligations of the parties hereunder shall constitute covenants, benefits, burdens, conditions, equitable servitudes, and restrictions which run with the land in perpetuity and which shall be binding upon, and inure to the benefit of, each Owner during its respective period of ownership of all or any part of the Property. No Owner shall be bound by, or entitled to the benefit of, said rights and obligations, upon transfer by the Owner of its entire interest in the Property, in fee, to a successor in interest to the Property.

5. Termination of Agreement Upon Termination of WQMP

This Agreement and the conditions, covenants, equitable servitudes, and restrictions set forth herein shall terminate upon termination of the WQMP applicable to the Property in accordance with its terms. Upon termination of the WQMP applicable to the Property, the Owner may request that the City execute a recordable document approved by the City approving and acknowledging termination of this agreement. A recorded document duly executed and acknowledged by the Public Works Director, or

his or her Designee, approving termination of this Agreement shall be conclusive evidence of such termination.

6. Enforcement

The City may, but shall not be obligated to, enforce this Agreement by a proceeding at law or in equity against any person or persons violating or attempting to violate any condition, covenant, equitable servitude, or restriction provided for herein, either to restrain such violation or to recover damages.

7. Entire Agreement

This Agreement constitutes the entire agreement and understanding between the parties with respect of the subject matter of this Agreement and supersedes all prior or contemporaneous agreements and understandings with respect to the subject matter hereof, whether oral or written.

8. Severability

If any part of this Agreement is declared by a final decision of a court of competent jurisdiction to be invalid for any reason, such shall not affect the validity of the rest of the Agreement. The other parts of this Agreement shall remain in effect as if this agreement had been executed without the invalid party. The partied declare that they intend and desire that the remaining parts of tis Agreement continue to be effective without any part or parts that have been declared invalid.

9. Counterparts

This Agreement may be executed in counterparts, each of which so executed shall, irrespective of the date of tits execution and delivery, be deemed an original, and all such counterparts together shall constitute one and the same instrument.

10. Attorneys' Fees

If any party files an action or brings any proceeding against the other arising from this Agreement, the prevailing party shall be entitled to recover as an element of its costs of suit, and not as damages, reasonable attorneys' fees and costs to be fixed by the court. A party not entitled to recover its costs shall not recover attorneys' fees. No sum for attorneys' fees shall be included in calculating the amount of a judgment for purposes of deciding whether a part is entitled to its costs or attorneys' fees.

11. Amendment

No modification, amendment, addition to, alteration of the terms of this Agreement whether written or verbal, shall be valid unless made in writing, formally approved and executed by the City and the current Owner(s) of the Property, and duly recorded.

12. Authority of Signatories to Agreement

Each person executing this Agreement represents and warrants that he or she is duly authorized and has legal capacity to execute and deliver this Agreement on behalf of the parties for which execution is made. Each party represents and warrants to the other that the execution of this Agreement and the performance of such party's obligations hereunder have been duly authorized and that the agreement is valid and legal agreement binding on such party and enforceable in accordance with its terms.

[SIGNATURES OF FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the date set forth above.

"CITY"/"COVENANTEE"
CITY OF CYPRESS

_____
Douglas C. Dancs, P.E.
Public Works Director

ATTEST:

_____
Alisha Farnell
City Clerk

APPROVED AS TO FORM:

_____
Anthony Taylor
City Attorney

"COVENANTER"

_____
Name of Covenanter

_____
Signature

_____
Title

_____
Signature

_____
Title

[signatures must be notarized]

BMP Applicable? Yes/No	BMP Name and BMP Implementation, Maintenance and Inspection Procedures	Implementation, Maintenance, and Inspection Frequency and Schedule	Person or Entity with Operation & Maintenance Responsibility
Non-Structural Source Control BMPs			
Yes	**N1. Education for Property Owners, Tenants and Occupants** For developments with no Property Owners Association (POA) or with POAs of less than fifty (50) dwelling units, practical information materials will be provided to the first occupants/tenants on general housekeeping practices that contribute to the protection of stormwater quality. These materials will be initially developed and provided to first occupants/tenants by the developer. Thereafter such materials will be available through the Permittees' education program. Different materials for residential, office commercial, retail commercial, vehicle-related commercial and industrial uses will be developed..	Educational materials will be provided to tenants, including brochures and restrictions to reduce pollutants from reaching the storm drain system. Examples include tips for pet care, household tips, and proper household hazardous waste disposal. Tenants will be provided with these materials by the property management prior to occupancy, and periodically thereafter. Refer to Section VII for a list of materials available and attached to this WQMP. Additional materials are available through the County of Orange Stormwater Program website (http://ocwatersheds.com/PublicEd/) and the California Stormwater Quality Association's (CASQA) BMP Handbooks (http://www.casqa.org/resources/bmphandbooks).	GLC CYPRESS LLC
Yes	**N2. Activity Restrictions** If a POA is formed, conditions, covenants and restrictions (CCRs) must be prepared by the developer for the purpose of surface water quality protection. An example would be not allowing car washing outside of established community car wash areas in multi-unit complexes. Alternatively, use restrictions may be developed by a building operator through lease terms, etc. These restrictions must be included in the Project WQMP.	The Owner/HOA shall develop ongoing activity restrictions that include those that have the potential to create adverse impacts on water quality. Activities include, but are not limited to: handling and disposal of contaminants, fertilizer and pesticide application restrictions, litter control and pick-up, and vehicle or equipment repair and maintenance in non-designated areas, as well as any other activities that may potentially contribute to water pollution.	GLC CYPRESS LLC
Yes	**N3. Common Area Landscape Management** Identify on-going landscape maintenance requirements that are consistent with those in the County Water Conservation Resolution (or city equivalent) that include fertilizer and/or pesticide usage consistent with Management Guidelines for Use of Fertilizers (DAMP	Management programs will be designed and implemented by the Owner to maintain all the common areas within the project site. These programs will cover how to reduce the potential pollutant sources of fertilizer and pesticide uses, utilization of water-efficient landscaping practices and proper disposal of landscape wastes by the owner and/or contractors.	GLC CYPRESS LLC

	Section 5.5). Statements regarding the specific applicable guidelines must be included in the Project WQMP.		
Yes	**N4. BMP Maintenance** The Project WQMP shall identify responsibility for implementation of each non-structural BMP and scheduled cleaning and/or maintenance of all structural BMP facilities.	The Owner will be responsible for the implementation and maintenance of each applicable nonstructural BMP, as well as scheduling inspections and maintenance of all applicable structural BMP facilities through its staff, landscape contractor, and/or any other necessary maintenance contractors.	GLC CYPRESS LLC
No	**N5. Title 22 CCR Compliance**		
No	**N6. Local Water Quality Permit Compliance**		
No	**N7. Spill Contingency Plan**		
No	**N8. Underground Storage Tank Compliance**		
No	**N9. Hazardous Materials Disclosure Compliance**		
No	**N10. Uniform Fire Code Implementation**		
Yes	**N11. Common Area Litter Control** For industrial/commercial developments the owner should be required to implement trash management and litter control procedures in the common areas aimed at reducing pollution of drainage water. The owner may contract with their landscape maintenance firms to provide this service during regularly scheduled maintenance, which should consist of litter patrol, emptying of trash receptacles in common areas, and noting trash disposal violations by tenants or businesses and reporting the violations to the owner for investigation.	The Owner will be responsible for performing trash pickup and sweeping of littered common areas on a weekly basis or whenever necessary. Responsibilities will also include noting improper disposal materials by the public and reporting such violations for investigation.	GLC CYPRESS LLC

Yes	**N12. Employee Training** Education program (see N1) as it would apply to future employees of individual businesses. Developer either prepares manual(s) for initial purchasers of business site or for development that is constructed for an unspecified use makes commitment on behalf of POA or future business owner to prepare. An example would be raining on the proper storage and use of fertilizers and pesticides, or training on the implementation of hazardous spill contingency plans.	All employees and any contractors will require training to ensure that employees are aware of maintenance activities that may result in pollutants reaching the storm drain. Training will include, but not be limited to, spill cleanup procedures, proper waste disposal, housekeeping practices, etc.	GLC CYPRESS LLC

BMP Applicable? Yes/No	BMP Name and BMP Implementation, Maintenance and Inspection Procedures	Implementation, Maintenance, and Inspection Frequency and Schedule	Person or Entity with Operation & Maintenance Responsibility
Yes	**N13. Housekeeping of Loading Docks** Loading docks typically found at large retail and warehouse-type commercial and industrial facilities should be kept in a clean and orderly condition through a regular program of sweeping and litter control and immediate cleanup of spills and broken containers. Cleanup procedures should minimize or eliminate the use of water if plumed to the storm sewer. If wash water is used, it must be disposed of in an approved manner and not discharged to the storm drain system. If there are no other alternatives, discharge of non-stormwater flow to the sanitary sewer must be at an acceptable discharge point such as a cleanout, oil/water separator, grease interceptor, or industrial sewer connection. All sewer discharges shall be in accordance with the Orange County Sanitation District's Wastewater Discharge Regulations and/or Washwater Disposal Guidelines.	Inspect loading dock for litter, spills, broken containers, and broken containers. Remove litter and debris and sweep docking area. Check that loading dock is covered and isolated with no run-on or run-off to other areas or the storm drain system. Repair, redesign, regrade, etc. to correct deficiencies. If spills of hazardous materials occur, clean up spill, but prevent wash water from entering storm drain system.	GLC CYPRESS LLC

Yes	**N14. Common Area Catch Basin Inspection** For industrial/commercial developments and for developments with privately maintained drainage systems, the owner is required to have at least 80 percent of drainage facilities inspected, cleaned and maintained on an annual basis with 100 percent of the facilities included in a two-year period. Cleaning should take place in the late summer/early fall prior to the start of the rainy season. Drainage facilities include catch basins (storm drain inlets) detention basins, retention basins, sediment basins, open drainage channels and lift stations. Records should be kept to document the annual maintenance.	All on-site catch basin inlets and drainage facilities shall be inspected and maintained by the Owner at least once a year, prior to the rainy season, no later than October 1st of each year.	GLC CYPRESS LLC
Yes	**N15. Street Sweeping Private Streets and Parking Lots** Streets and parking lots are required to be swept prior to the storm season, in late summer or early fall, prior to the start of the rainy season or equivalent as required by the governing jurisdiction.	The Owner shall be responsible for sweeping all on-site streets, drive aisles, and parking areas within the project on a quarterly basis.	GLC CYPRESS LLC
Structural Source Control BMPs			
Yes	**S1. Provide Storm Drain System Stenciling and Signage** Storm drain stencils are highly visible source control messages, typically placed directly adjacent to storm drain inlets. The stencils contain a brief statement that prohibits the dumping of improper materials into the municipal storm drain system. Graphical icons, either illustrating anti-dumping symbols or images of receiving water fauna, are effective supplements to the antidumping message. Stencils and signs alert the public to the destination of pollutants discharged into stormwater. The following requirements should be included in the project design and shown on the project plans: Provide stenciling or labeling of all storm drain inlets and catch basins, constructed or modified, within the project area with prohibitive language (such as: “NO DUMPINGDRAINS	The phrase “NO DUMPING! DRAINS TO OCEAN”, or an equally effective phrase approved by the City, will be stenciled on all major storm drain inlets within the project site to alert the public to the destination of pollutants discharged into storm water. Stencils shall be in place prior to release of certificate of occupancy. Stencils shall be inspected for legibility on an annual basis and re-stenciled as necessary.	GLC CYPRESS LLC

	TO OCEAN") and/or graphical icons to discourage illegal dumping. 2. Post signs and prohibitive language and/or graphical icons, which prohibit illegal dumping at public access points along channels and creeks within the project area. 3. Maintain legibility of stencils and signs. See CASQA Stormwater Handbook BMP Fact Sheet SD-13 for additional information.		
No	**S2. Design Outdoor Hazardous Material Storage Areas to Reduce Pollutant Introduction**		
Yes	**S3. Design Trash Enclosures to Reduce Pollutant Introduction** Design trash storage areas to reduce pollutant introduction. All trash container areas shall meet the following requirements (limited exclusion: detached residential homes): 1. Paved with an impervious surface, designed not to allow run-on from adjoining areas, designed to divert drainage from adjoining roofs and pavements diverted around the area, screened or walled to prevent off-site transport of trash; and 2. Provide solid roof or awning to prevent direct precipitation. Connection of trash area drains to the municipal storm drain system is prohibited. Potential conflicts with fire code and garbage hauling activities should be considered in implementing this source control. See CASQA Stormwater Handbook Section 3.2.9 and BMP Fact Sheet SD-32 for additional information.	All trash and waste shall be stored in containers that have lids or tarps to minimize direct precipitation into the containers. Number and location(s) of any trash enclosures will be identified in the Final WQMP. The trash storage areas will be designed to City standards, and will be walled, roofed, have gates and proper drainage per City standards.	GLC CYPRESS LLC
Yes	**S4. Use Efficient Irrigation Systems and Landscape Design** Projects shall design the timing and application methods of irrigation water to minimize the runoff of excess irrigation water into the municipal storm drain system. (Limited exclusion:	The Owner will be responsible for the installation and maintenance of all common landscape areas utilizing similar planting materials with similar water requirements to reduce excess irrigation runoff. The Owner will be responsible for implementing all efficient irrigation systems for common area landscaping including, but not limited to, provisions for water	GLC CYPRESS LLC

	detached residential homes.) The following methods to reduce excessive irrigation runoff shall be considered, and incorporated on common areas of development and other areas where determined applicable and feasible by the Permittee: 1. Employing rain shutoff devices to prevent irrigation after precipitation. 2. Designing irrigation systems to each landscape area's specific water requirements. 3. Using flow reducers or shutoff valves triggered by a pressure drop to control water loss in the event of broken sprinkler heads or lines. 4. Implementing landscape plan consistent with County Water Conservation Resolution or city equivalent, which may include provision of water sensors, programmable irrigation times (for short cycles), etc. 5. The timing and application methods of irrigation water shall be designed to minimize the runoff of excess irrigation water into the municipal storm drain system. 6. Employing other comparable, equally effective, methods to reduce irrigation water runoff. 7. Group plants with similar water requirements in order to reduce excess irrigation runoff and promote surface filtration. Choose plants with low irrigation requirements (for example, native or drought tolerant species). Consider other design features, such as: • Use mulches (such as wood chips or shredded wood products) in planter areas without ground cover to minimize sediment in runoff. • Install appropriate plant materials for the location, in accordance with amount of sunlight and climate, and use native plant material where possible and/or as recommended by the landscape architect.	sensors and programmable irrigation cycles. This includes smart timers, rain sensors, and moisture shut-off valves. The irrigation systems shall be in conformance with water efficiency guidelines. Systems shall be tested twice per year, and water used during testing/flushing shall not be discharged to the storm drain system.	

	• Leave a vegetative barrier along the property boundary and interior watercourses, to act as a pollutant filter, where appropriate and feasible. • Choose plants that minimize or eliminate the use of fertilizer or pesticides to sustain growth. Irrigation practices shall comply with local and statewide ordinances related to irrigation efficiency.		
No	**S5. Protect Slopes and Channels**		
Yes	**S6. Loading Dock Areas** Loading /unloading dock areas shall include the following: 1. Cover loading dock areas, or design drainage to preclude run-on and runoff, unless the material loaded and unloaded at the docks does not have potential to contribute to stormwater pollution, and this use is ensured for the life of the facility. 2. Direct connections to the municipal storm drain system from below grade loading docks (truck wells) or similar structures are prohibited. Stormwater can be discharged through a permitted connection to the storm drain system with a treatment control BMP applicable to the use. 3. Other comparable and equally effective features that prevent unpermitted discharges to the municipal storm drain system. 4. Housekeeping of loading docks shall be consistent with N13. See CASQA Stormwater Handbook Section 3.2.8 for additional information.	Inspect loading dock for litter, spills, broken containers, and broken containers. Remove litter and debris and sweep docking area. Check that loading dock is covered and isolated with no run-on or run-off to other areas or the storm drain system. Repair, redesign, regrade, etc. to correct deficiencies. If spills of hazardous materials occur, clean up spill, but prevent wash water from entering storm drain system.	GLC CYPRESS LLC
No	**S7. Maintenance Bays and Docks**		
No	**S8. Vehicle Wash Areas**		

BMP Applicable? Yes/No	BMP Name and BMP Implementation, Maintenance and Inspection Procedures	Implementation, Maintenance, and Inspection Frequency and Schedule	Person or Entity with Operation & Maintenance Responsibility
No	**S9. Outdoor Processing Areas**		
No	**S10. Equipment Wash Areas**		
No	**S11. Fueling Areas**		
Yes	**S12. Site Design and Landscape Planning** Hillside areas that are disturbed by project development shall be landscaped with deep-rooted, drought tolerant plant species selected for erosion control, satisfactory to the local permitting authority.	Management programs will be designed and implemented by the Owner to maintain all the common areas within the project site. These programs will cover how to reduce the potential pollutant sources of fertilizer and pesticide uses, utilization of water-efficient landscaping practices and proper disposal of landscape wastes by the owner and/or contractors.	GLC CYPRESS LLC
No	**S13. Wash Water Controls for Food Preparation Areas**		
No	**S14. Community Car Wash Racks**		

BMP Name and BMP Implementation, Maintenance and Inspection Procedures	Implementation, Maintenance, and Inspection Frequency and Schedule	Person or Entity with Operation & Maintenance Responsibility
Low Impact Development BMPs		
Hydrologic Source Control BMPs	N/A	
Infiltration BMPs	N/A	
Harvest and use BMPs	N/A	

BMP Name and BMP implementation, Maintenance and Inspection Procedures	Implementation, Maintenance, and Inspection Frequency and Schedule	Person or Entity with Operation & Maintenance Responsibility
Biotreatment BMP - Modular Wetlands Model MWS-L-8-24-V – 2 Ea	See Modular Wetlands maintenance procedures in the Appendix. Inspect system via the maintenance port for infiltration of collected runoff after major rain events and at least semi-annually, once prior to the beginning of the rainy season (October 1 of each year) and once after the rainy season.	GLC CYPRESS LLC
Underground Storage System – StormTrap or Equal	Inspect system via the maintenance port for infiltration of collected runoff after major rain events and at least semi-annually, once prior to the beginning of the rainy season (October 1 of each year) and once after the rainy season. Ensure that facility drains within 48-72 hours. Should drawdown times get significantly reduced due to sediment buildup, flush system by injecting high pressure water via the maintenance port and remove sediment laden water via sump pump. 2x per year Inspections Cleanout Annually (min.)	GLC CYPRESS LLC

Treatment Control BMPs		
Treatment Control BMP – Hydrodynamic separator **ADS Barracuda Max Model S4 – 2 Ea**	Typical maintenance includes inspecting the system at a minimum of once every six months and once prior to the beginning of the rainy season (October 1 of each year). The cleaning and debris removal maintenance from the settling chamber a minimum of once year and replacement of hydrocarbon booms once a year. The procedure is usually done with the use of any standard vacuum truck. Media shall be replaced when it has become 75% clogged, typically once per year at a minimum.	GLC CYPRESS LLC
Storm Drain Ejector Pump System – **Primary & Secondary** **Model PSI-PBL111422**	Inspection and operation of the pump and sump manhole shall be once prior to the beginning of the rainy season (October 1 of each year). Proper operation and inspection would include the following: 1) Automatic operation of the system by float activation. One pump starting at lead on levels, second pump starting at high level conditions; manual operation by use of the selector switches. 2) Inspect floats for proper elevation and for proper movement. Correct any obstructions. 3) Check incoming power for proper voltage. Check voltage at motor connections. 4) Check amperage of each motor. 5) Hose down lift station to clean the walls of the wet well, pumps and floats.	GLC CYPRESS LLC
Inlet Filters **AbTech Ultra-Urban Filter - Models CO & DI – 18 ea**	Typical maintenance includes inspecting the filter at a minimum of once every six months and once prior to the beginning of the rainy season (October 1 of each year). The filter cleaning and debris removal maintenance from the filter and basket should occur a minimum of once year and replacement of hydrocarbon booms once a year. The procedure is usually done with the use of any standard vacuum truck.	GLC CYPRESS LLC
Trench Drains – 2 ea **Zurn Products Model Z874-12-HDG (or equal)**	Typical maintenance includes inspecting the grates and trough at a minimum of once every six months and once prior to the beginning of the rainy season (October 1 of each year). The grates and trough should be cleaned of silt and debris to ensure a free flow condition. Any damaged grating or trough should be repaired or replaced as needed.	GLC CYPRESS LLC

Required Permits

This section must list any permits required for the implementation, operation, and maintenance of the BMPs. Possible examples are:

- Permits for connection to sanitary sewer
- Permits from California Department of Fish and Game
- Encroachment permits

If no permits are required, a statement to that effect should be made.

Forms to Record BMP Implementation, Maintenance, and Inspection

The form that will be used to record implementation, maintenance, and inspection of BMPs is attached.

Recordkeeping

All records must be maintained for at least five (5) years and must be made available for review upon request.

ATTACHMENT A - Record of BMP Implementation, Maintenance, and Inspection

Today's Date: _____

Name of Person Performing Activity (Printed): _____

Signature: _____

BMP Name (As Shown in O&M Plan)	Brief Description of Implementation, Maintenance, and Inspection Activity Performed

ATTACHMENT B – Notice of Transfer of Responsibility

Exhibit D

Water Quality Management Plan
Notice of Transfer of Responsibility

Tracking No. Assigned by the City of Cypress: _ WQMP-23-1

Submission of this Notice of Transfer of Responsibility constitutes notice to the City of Anaheim that responsibility for the Water Quality Management Plan ("WQMP") for the subject property identified below, and implementation of that plan, is being transferred from the Previous Owner (and his/her agent) of the site (or a portion thereof) to the New Owner, as further described below.

I. Previous Owner/Previous Responsible Party Information

Company/Individual Name		Contact Person	
Street Address		Title	
City	State	ZIP	Phone

II. Information about Site Transferred

Name of Project (if applicable) GCC Cypress Building 3	
Title of WQMP Applicable to site: Final WQMP - GCC Cypress Building 3	
Street Address of Site (if applicable) 5665 Plaza Drive	
Planning Area (PA) and/or Tract Number(s) for Site	Lot Numbers (if Site is a portion of a tract)
Date WQMP Prepared (and revised if applicable)	

III. New Owner/New Responsible Party Information

Company/Individual Name GLC Cypress, LLC		Contact Person Blair Dahl	
Street Address 3333 Michelson Dr, #1050		Title VP	
City Irvine	State CA	ZIP 92620	Phone 949-407-0118

IV. Ownership Transfer Information

General Description of Site Transferred to New Owner	General Description of Portion of Project/Parcel Subject to WQMP Retained by Owner (if any)
Lot/Tract Numbers of SiteTransferred to New Owner	
Remaining Lot/Tract Numbers Subject to WQMP Still Held by Owner (if any)	
Date of Ownership Transfer	

Note: When the Previous Owner is transferring a Site that is a portion of a larger project/parcel addressed by the WQMP, as opposed to the entire project/parcel addressed by the WQMP, the General Description of the Site transferred and the remainder of the project/parcel not transferred shall be set forth as maps attached to this notice. These maps shall show those

portions of a project/parcel addressed by the WQMP that are transferred to the New Owner (the Transferred Site), those portions retained by the Previous Owner, and those portions previously transferred by Previous Owner. Those portions retained by Previous Owner shall be labeled "Previous Owner," and those portions previously transferred by Previous Owner shall be labeled as "Previously Transferred."

V. Purpose of Notice of Transfer

The purposes of this Notice of Transfer of Responsibility are: 1) to track transfer of responsibility for implementation and amendment of the WQMP when property to which the WQMP is transferred from the Previous Owner to the New Owner, and 2) to facilitate notification to a transferee of property subject to a WQMP that such New Owner is now the Responsible Party of record for the WQMP for those portions of the site that it owns.

VI. Certifications

A. Previous Owner

I certify under penalty of law that I am no longer the owner of the Transferred Site as described in Section II above. I have provided the New Owner with a copy of the WQMP applicable to the Transferred Site that the New Owner is acquiring from the Previous Owner.

Printed Name of Previous Owner Representative	Title
Signature of Previous Owner Representative	Date

B. New Owner

I certify under penalty of law that I am the owner of the Transferred Site, as described in Section II above, that I have been provided a copy of the WQMP, and that I have informed myself and understand the New Owner's responsibilities related to the WQMP, its implementation, and Best Management Practices associated with it. I understand that by signing this notice, the New Owner is accepting all ongoing responsibilities for implementation and amendment of the WQMP for the Transferred Site, which the New Owner has acquired from the Previous Owner.

Printed Name of New Owner Representative	Title
Signature	Date

ATTACHMENT C – Owners Manuals

Attachment G . ..... Worksheet "J" – Harvest and Reuse Feasibility

minimum incremental benefit required to mandate its use (See discussion of threshold incremental benefit in **Appendix XIII**). This level of performance is termed the "minimum partial capture." A harvest and use system would be considered to achieve less than "minimum partial capture" if:

- Based on a system sized for the full DCV from the tributary area, and
- Based on the combined project demand for harvested water,
- The system draws down in greater than 30 days (720 hours), therefore captures less than 40 percent of average annual runoff (See Figure III.2).

Harvest and use systems with demand lower than required to achieve minimum partial capture are not required to be considered to demonstrate retention of stormwater to the MEP. If this is the case, other LID BMPs must be evaluated for retention and/or biotreatment of the Project DCV.

X.3.2. Demand Thresholds for Minimum Partial Capture

Table X.6 provides the minimum combined project demand to meet the minimum partial capture for the range of precipitation zones found in Orange County. Projects with a total demand below this value not required to prepare a project specific evaluation of harvest and use feasibility.

Table X.6: Harvested Water Demand Thresholds for Minimum Partial Capture

Design Capture Storm Depth[1], inches	Wet Season Demand Required for Minimum Partial Capture[2], gpd per impervious acre
0.60	490
0.65	530
0.70	570
0.75	610
0.80	650
0.85	690
0.90	730
0.95	770
1.00	810

1 - Based on isopluvial map (See **XVI.1**)

2 –Minimum Partial Capture is a performance standard whereby system performance exceeds 40 percent capture (See **Appendix** XIII) , such that the system must be considered for use even if it cannot achieve the full DCV.

X.3.3. TUTIA Ratio Thresholds for Minimum Partial Capture

Table X.7 provides thresholds for TUTIA (Toilet Users to Impervious Area) ratio required to achieve minimum partial capture of the stormwater DCV (i.e. at least 40 percent average annual capture efficiency with a system sized for the DCV). Projects with TUTIA ratios below this value and without other significant demands for harvested water are not required to prepare a project specific evaluation of harvest and use feasibility. The values in Table X.7 reflect the minimum TUTIA ratio required to achieve at least 40 percent average annual capture efficiency with a system sized for the DCV.

Table X.7: Minimum TUTIA for Minimum Partial Capture

Project Type	**Residential**	**Retail and Office Commercial**	**Industrial**	**Schools[1]**
Basis of Toilet User Calculation	*Resident*	*Employee (non-visitor)*	*Employee (non-visitor)*	*Employee (non-student)*
Design Capture Storm Depth, inches	**Minimum TUTIA Ratio Required for Minimum Partial Capture (toilet users/impervious acre)**			
0.6	74	98	125	21
0.65	80	106	135	23
0.7	86	114	145	24
0.75	92	122	155	26
0.8	98	130	165	28
0.85	104	138	176	30
0.9	110	146	186	31
0.95	117	154	196	33
1	123	162	206	35

1 – based on employees only; assumes approximately 5 students per employee.

X.3.4. Irrigated Area Thresholds for Minimum Partial Capture

Table X.8 provides thresholds for irrigated area per impervious acre for minimum partial capture of the stormwater DCV. Projects with irrigation area below this value and without other sources of significant demand will generally not be required to prepare a project specific evaluation of harvest and use feasibility. The values in Table X.8 reflect the minimum irrigated area per impervious area required to achieve at least 40 percent average annual capture efficiency with a system sized for the DCV.

Table X.8: Minimum Irrigated Area for Potential Partial Capture Feasibility

General Landscape Type	Conservation Design: K_L = 0.35			Active Turf Areas: K_L = 0.7		
Closest ET Station	*Irvine*	*Santa Ana*	*Laguna*	*Irvine*	*Santa Ana*	*Laguna*
Design Capture Storm Depth, inches	**Minimum Required Irrigated Area per Tributary Impervious Acre for Potential Partial Capture, ac/ac**					
0.60	0.66	0.68	0.72	0.33	0.34	0.36
0.65	0.72	0.73	0.78	0.36	0.37	0.39
0.70	0.77	0.79	0.84	0.39	0.39	0.42
0.75	0.83	0.84	0.90	0.41	0.42	0.45
0.80	0.88	0.90	0.96	0.44	0.45	0.48
0.85	0.93	0.95	1.02	0.47	0.48	0.51
0.90	0.99	1.01	1.08	0.49	0.51	0.54
0.95	1.04	1.07	1.14	0.52	0.53	0.57
1.00	1.10	1.12	1.20	0.55	0.56	0.60

Worksheet J: Summary of Harvested Water Demand and Feasibility

1	What demands for harvested water exist in the tributary area (check all that apply):			
2	Toilet and urinal flushing		X	
3	Landscape irrigation		X	
4	Other:_____		□	
5	What is the design capture storm depth? (**Figure III.1**)	d	0.82	inches
6	What is the project size?	A	8.45	ac
7	What is the acreage of impervious area?	IA	7.77	ac
	For projects with multiple types of demand (toilet flushing, indoor demand, and/or other demand)			
8	What is the minimum use required for partial capture? (**Table X.6**)		665	gpd
9	What is the project estimated wet season total daily use?		200	gpd
10	Is partial capture potentially feasible? (Line 9 > Line 8?)		No	
	For projects with only toilet flushing demand			
11	What is the minimum TUTIA for partial capture? (**Table X.7**)		169	
12	What is the project estimated TUTIA?		100	

Worksheet J: Summary of Harvested Water Demand and Feasibility

13	Is partial capture potentially feasible? (Line 12 > Line 11?)	No	
	For projects with only irrigation demand		
14	What is the minimum irrigation area required based on conservation landscape design? (**Table X.8**)	7.14	ac
15	What is the proposed project irrigated area? (multiply conservation landscaping by 1; multiply active turf by 2)	0.68	ac
16	Is partial capture potentially feasible? (Line 15 > Line 14?)	No	

Provide supporting assumptions and citations for controlling demand calculation:

All landscaping will be drought tolerant no turf

Attachment H . ..... HCOC Exhibit & Calculations

HCOC MITIGATION

128-11 Goodman Commerce Center - Building 3 - Cypress, CA

2YR, 24HR DESIGN STORM

	Area	***Runoff Depth***	***Runoff Volume (V)***	***Time of Concentration (T_C)***
	(AC)	(IN)	(AC-FT)	(HOURS)
EXISTING	8.450	1.069	0.753	0.132
PROPOSED	8.450	1.069	0.753	0.100

is $\mathbf{V_{PROP}} / \mathbf{V_{EXIST}} \leq 1.05$?	TRUE
is $\mathbf{Tc_{PROP}} / \mathbf{Tc_{EXIST}} \leq 1.05$?	TRUE
Δ[2YR, 24HR] =	0

	Area	***Runoff Depth***	***Design Capture Volume (DCV)***
	(AC)	(IN)	(AC-FT)

WinTR-55 Current Data Description

--- Identification Data ---

User: PBLA Eng. Date: 8/29/2023
Project: Pr. Goodman Commerce Center Units: English
SubTitle: Existing Condition - GCC BLDG 3 - Cypress, CA
Areal Units: Acres
State: California
County: Orange
Filename: L:\128-11 Cypress Bldg 3\HYDRO\PRELIM\TR-55\128-11 - Existing.w55

--- Sub-Area Data ---

Name	Description	Reach	Area(ac)	RCN	Tc
A		Outlet	8.45	89	.132

Total area: 8.45 (ac)

--- Storm Data --

Rainfall Depth by Rainfall Return Period

2-Yr (in)	5-Yr (in)	10-Yr (in)	25-Yr (in)	50-Yr (in)	100-Yr (in)	-Yr (in)
2.16	2.88	3.47	4.3	4.95	5.62	.0

Storm Data Source: User-provided custom storm data
Rainfall Distribution Type: Type I
Dimensionless Unit Hydrograph: <standard>

Pr. Goodman Commerce Center
Existing Condition - GCC BLDG 3 - Cypress, CA
Orange County, California

Storm Data

Rainfall Depth by Rainfall Return Period

2-Yr (in)	5-Yr (in)	10-Yr (in)	25-Yr (in)	50-Yr (in)	100-Yr (in)	-Yr (in)
2.16	2.88	3.47	4.3	4.95	5.62	.0

Storm Data Source: User-provided custom storm data
Rainfall Distribution Type: Type I
Dimensionless Unit Hydrograph: <standard>

PBLA Eng.

Pr. Goodman Commerce Center
Existing Condition - GCC BLDG 3 - Cypress, CA
Orange County, California

Watershed Peak Table

Sub-Area or Reach Identifier	Peak Flow by Rainfall Return Period 2-Yr (cfs)
SUBAREAS	
A	7.11
REACHES	
OUTLET	7.11

PBLA Eng.

Pr. Goodman Commerce Center
Existing Condition - GCC BLDG 3 - Cypress, CA
Orange County, California

Hydrograph Peak/Peak Time Table

Sub-Area or Reach Identifier	Peak Flow and Peak Time (hr) by Rainfall Return Period 2-Yr (cfs) (hr)
SUBAREAS	
A	7.11 9.95
REACHES	
OUTLET	7.11

Pr. Goodman Commerce Center
Existing Condition - GCC BLDG 3 - Cypress, CA
Orange County, California

Sub-Area Summary Table

Sub-Area Identifier	Drainage Area (ac)	Time of Concentration (hr)	Curve Number	Receiving Reach	Sub-Area Description
A	8.45	0.132	89	Outlet	

Total Area: 8.45 (ac)

Pr. Goodman Commerce Center
Existing Condition - GCC BLDG 3 - Cypress, CA
Orange County, California

Sub-Area Time of Concentration Details

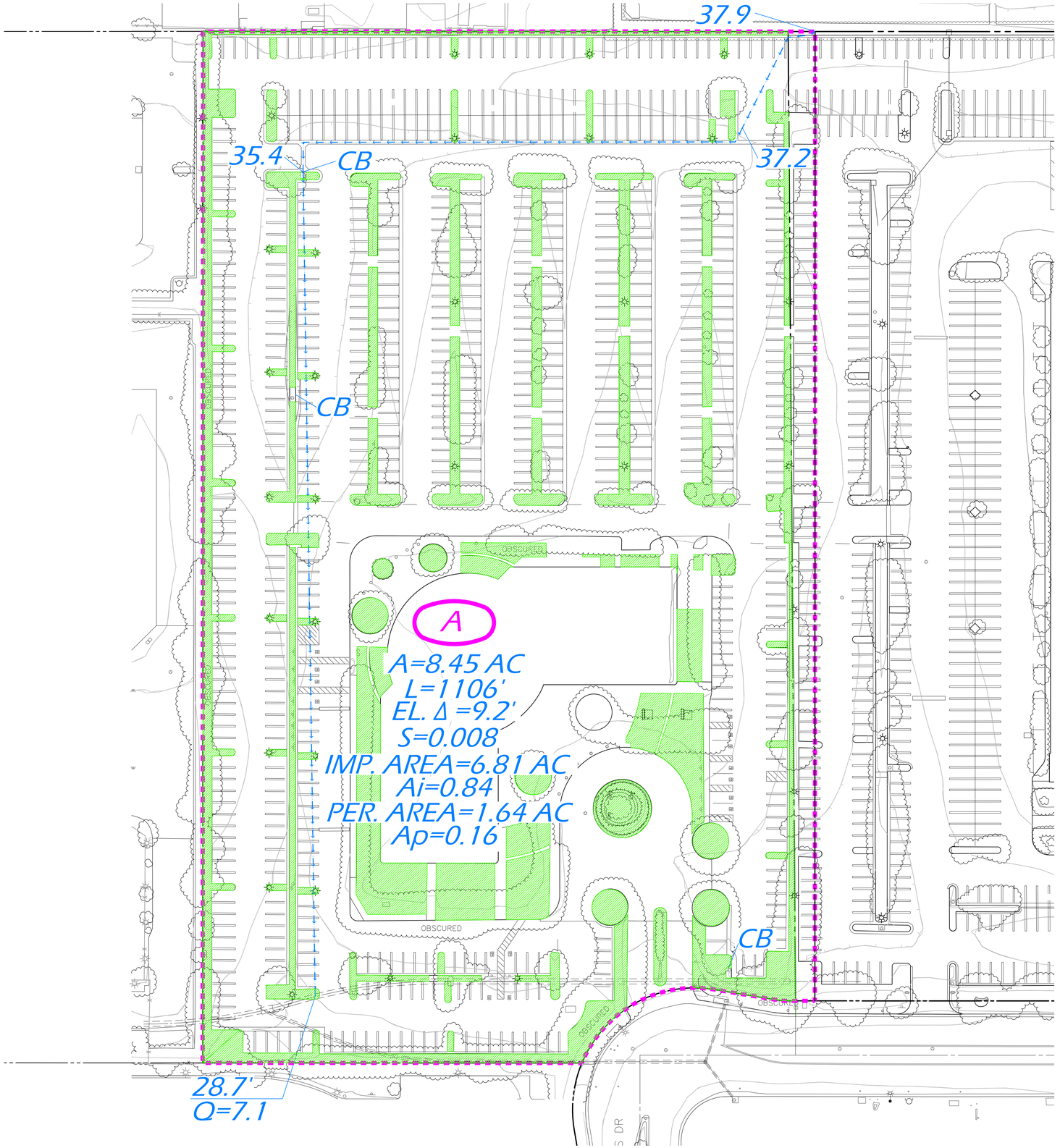
Sub-Area Identifier/	Flow Length (ft)	Slope (ft/ft)	Mannings's n	End Area (sq ft)	Wetted Perimeter (ft)	Velocity (ft/sec)	Travel Time (hr)
A							
SHEET	100	0.0070	0.011				0.037
SHALLOW	369	0.0048	0.025				0.073
CHANNEL	637	0.0058	0.009	3.14	6.28	8.043	0.022
					Time of Concentration		.132

PBLA Eng.

Pr. Goodman Commerce Center
Existing Condition - GCC BLDG 3 - Cypress, CA
Orange County, California

Sub-Area Land Use and Curve Number Details

Sub-Area Identifier	Land Use	Hydrologic Soil Group	Sub-Area Area (ac)	Curve Number
A	Commercial & business	A	8.45	89
	Total Area / Weighted Curve Number		8.45	89



LEGEND

- (A) — SUBAREA DESIGNATION
- SUBAREA BOUNDARY
- SD — SD — EXIST STORM DRAIN
- Q=7.1 — 24 HOUR, 2 YEAR DISCHARGE
- EXISTING LANDSCAPING

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

PREPARED BY:

PBLA ENGINEERING, INC.
Planning • Engineering • Surveying
1809 E. DYER ROAD, STE 301
SANTA ANA, CALIF. 92705
(888) 714-9642 • (714)389-9191 FAX

Aug 30 2023

TR-55 HYDROLOGY MAP

EXISTING CONDITION HYDROLOGY

GCC - CYPRESS-BLD 3

PLAZA DRIVE - CYPRESS, CA

WinTR-55 Current Data Description

--- Identification Data ---

User: PBLA Eng. Date: 8/29/2023
Project: Pr. Goodman Commerce Center Units: English
SubTitle: Proposed Condition - GCC BLDG 3 - Cypress, CA
Areal Units: Acres
State: California
County: Orange
Filename: L:\128-11 Cypress Bldg 3\HYDRO\PRELIM\TR-55\128-11 - Proposed.w55

--- Sub-Area Data ---

Name	Description	Reach	Area(ac)	RCN	Tc
A		Outlet	8.45	89	0.100

Total area: 8.45 (ac)

--- Storm Data --

Rainfall Depth by Rainfall Return Period

2-Yr (in)	5-Yr (in)	10-Yr (in)	25-Yr (in)	50-Yr (in)	100-Yr (in)	-Yr (in)
2.16	2.88	3.47	4.3	4.95	5.62	.0

Storm Data Source: User-provided custom storm data
Rainfall Distribution Type: Type I
Dimensionless Unit Hydrograph: <standard>

PBLA Eng.

Pr. Goodman Commerce Center
Proposed Condition - GCC BLDG 3 - Cypress, CA
Orange County, California

Storm Data

Rainfall Depth by Rainfall Return Period

2-Yr (in)	5-Yr (in)	10-Yr (in)	25-Yr (in)	50-Yr (in)	100-Yr (in)	-Yr (in)
2.16	2.88	3.47	4.3	4.95	5.62	.0

Storm Data Source: User-provided custom storm data
Rainfall Distribution Type: Type I
Dimensionless Unit Hydrograph: <standard>

PBLA Eng.

Pr. Goodman Commerce Center
Proposed Condition - GCC BLDG 3 - Cypress, CA
Orange County, California

Watershed Peak Table

Sub-Area or Reach Identifier	Peak Flow by Rainfall Return Period 2-Yr (cfs)
SUBAREAS	
A	7.50
REACHES	
OUTLET	7.50

PBLA Eng.

Pr. Goodman Commerce Center
Proposed Condition - GCC BLDG 3 - Cypress, CA
Orange County, California

Hydrograph Peak/Peak Time Table

Sub-Area or Reach Identifier	Peak Flow and Peak Time (hr) by Rainfall Return Period 2-Yr (cfs)	(hr)
SUBAREAS		
A	7.50	9.93
REACHES		
OUTLET	7.50	

Pr. Goodman Commerce Center
Proposed Condition - GCC BLDG 3 - Cypress, CA
Orange County, California

Sub-Area Summary Table

Sub-Area Identifier	Drainage Area (ac)	Time of Concentration (hr)	Curve Number	Receiving Reach	Sub-Area Description
A	8.45	0.100	89	Outlet	

Total Area: 8.45 (ac)

PBLA Eng.

Pr. Goodman Commerce Center
Proposed Condition - GCC BLDG 3 - Cypress, CA
Orange County, California

Sub-Area Time of Concentration Details

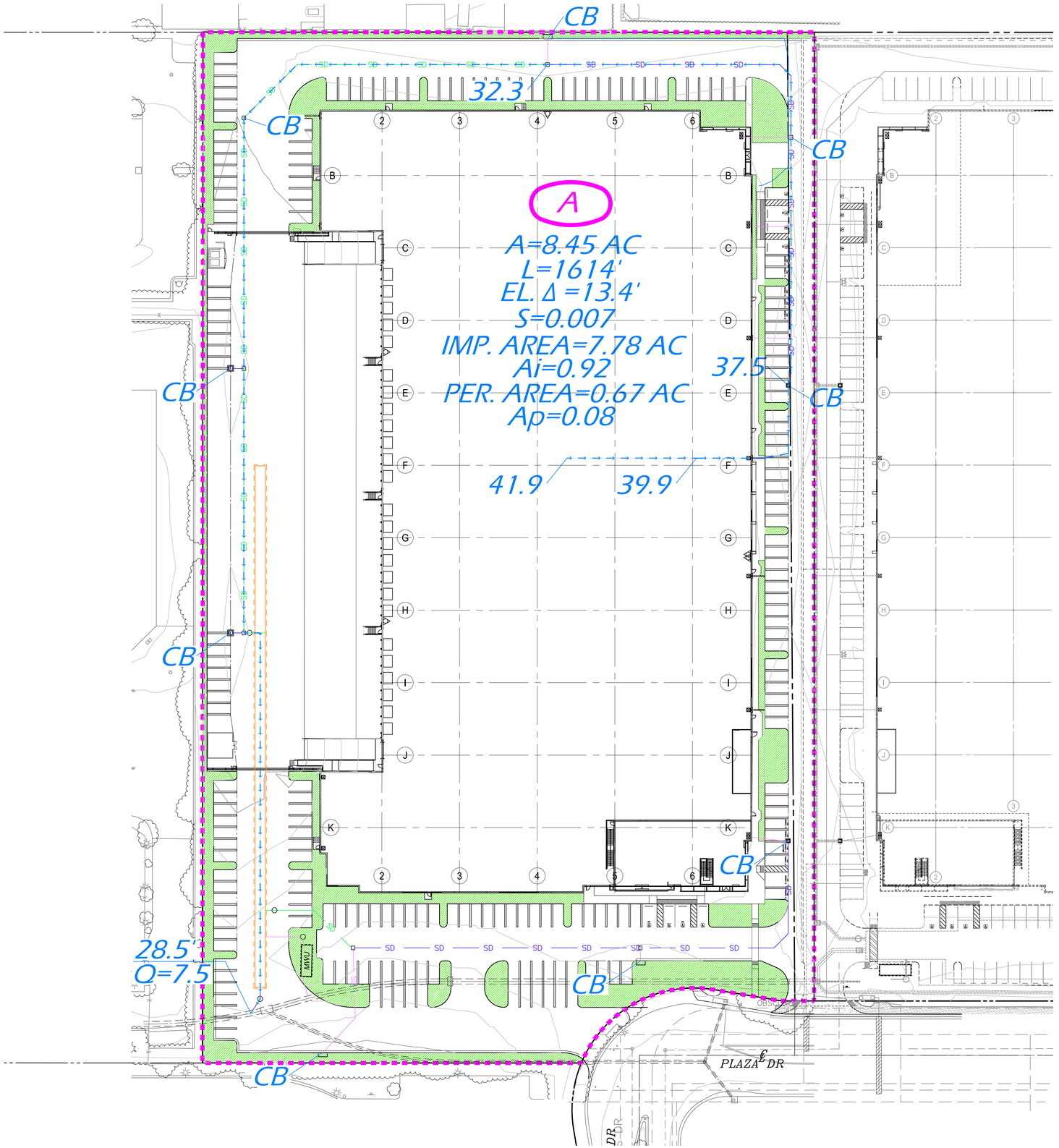
Sub-Area Identifier/	Flow Length (ft)	Slope (ft/ft)	Mannings's n	End Area (sq ft)	Wetted Perimeter (ft)	Velocity (ft/sec)	Travel Time (hr)
A							
SHEET	100	0.0200	0.011				0.025
SHALLOW	124	0.0194	0.025				0.012
CHANNEL	431	0.0050	0.009	1.77	4.71	5.986	0.020
CHANNEL	959	0.0040	0.009	3.14	6.28	6.660	0.040
					Time of Concentration		0.100

PBLA Eng.

Pr. Goodman Commerce Center
Proposed Condition - GCC BLDG 3 - Cypress, CA
Orange County, California

Sub-Area Land Use and Curve Number Details

Sub-Area Identifier	Land Use	Hydrologic Soil Group	Sub-Area Area (ac)	Curve Number
A	Commercial & business	A	8.45	89
	Total Area / Weighted Curve Number		8.45	89



LEGEND

- A — SUBAREA DESIGNATION
- SUBAREA BOUNDARY
- SD — EXIST STORM DRAIN
- Q=7.5 — 24 HOUR, 2 YEAR DISCHARGE
- EXISTING LANDSCAPING

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

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Aug 30 2023

TR-55 HYDROLOGY MAP
PROPOSED CONDITION HYDROLOGY

GCC - CYPRESS-BLD 3
PLAZA DRIVE - CYPRESS, CA

Attachment I .. ..Exhibits

Susceptibility

Potential Areas of Erosion, Habitat, & Physical Structure Susceptibility

Channel Type

Earth (Unstable)

Earth (Stabilized)

Stabilized

Tidel Influence

<= Mean High Water Line (4.28')

Water Body

Basin

Lake

Federal & Other Lands

Seal Beach National Wildlife Refuge

Airports/Military

PROJECT

San Gabriel-Coyote Creek

Los Alamitos Naval Air Station

Seal Beach Naval Weapons Station

Seal Beach National Wildlife Refuge

West Street Retarding Basin

Haster Retarding Basin

Newland Retarding Basin

Lake Huntington

Santa Ana River

Newport Bay

John Wayne Airport

Pacific Ocean

Anaheim

Garden Grove

Westminster

Midway City

Huntington Beach

Norwalk

Fullerton

Corona

Irvine

Costa Mesa

Laguna Beach

Laguna Niguel

0 6,500 13,000 Feet

TITLE: SUSCEPTIBILITY ANALYIS ANAHEIM BAY-HUNTINGTON HARBOR

JOB: ORANGE COUNTY WATERSHED MASTER PLANNING ORANGE CO. CA

SCALE	1" = 6500'
DESIGNED	TH
DRAWING	TH
CHECKED	BMP
DATE	04/22/10
JOB NO.	9526-E

PACE Advanced Water Engineering

FIGURE 2

P:\9526E\6-GIS\Mxds\Workspace\Susceptible Analysis_20100422\9526E_AnaheimBay_20100331.mxd

SUBJECT TO FURTHER REVISION

LEGEND

- Orange County Precipitation Stations
- 24 Hour, 85th Percentile Rainfall (Inches)
- 24 Hour, 85th Percentile Rainfall (Inches) - Extrapolated
- City Boundaries

Rainfall Zones

Design Capture Storm Depth (inches)

- 0.65"
- 0.7
- 0.75
- 0.80
- 0.85
- 0.90
- 0.95
- 1.00
- 1.10"

Note: Events defined as 24-hour periods (calendar days) with greater than 0.1 inches of rainfall.
For areas outside of available data coverage, professional judgment shall be applied.

PROJECT SITE
0.85

0.65 0.7 0.75 0.8 0.85 0.9 0.95 1 1.05

LOS ANGELES COUNTY
ORANGE COUNTY
SAN BERNARDINO COUNTY
RIVERSIDE COUNTY

0 3 6 12 Kilometers
0 1.8 3.6 7.2 Miles

TITLE: RAINFALL ZONES

JOB: ORANGE COUNTY TECHNICAL GUIDANCE DOCUMENT — ORANGE CO. CA

SCALE	1" = 1.8 miles
DESIGNED	TH
DRAWING	TH
CHECKED	BMP
DATE	04/22/10
JOB NO.	9526-E

PACE Advanced Water Engineering

FIGURE
XVI-1

P:\9526E\6-GIS\Mxds\Reports\Infiltration\Feasability_20110215\9526E_Figure XVI-1_Rainfall Zones_20110215.mxd

SUBJECT TO FURTHER REVISION

LEGEND

- City Boundaries
- OCWD Groundwater Basin Protection Boundary

Depth To Groundwater

- <= 5'
- 5-10'

Note: Data are not available for South Orange County at this time.

Source:
Sprotte, Fuller and Greenwood, 1980.
California Division of Mines and Geology;
California Geological Survey

LOS ANGELES COUNTY
ORANGE COUNTY

SAN BERNARDINO COUNTY
ORANGE COUNTY

RIVERSIDE COUNTY
ORANGE COUNTY

0 2 4 8 Kilometers

0 1.25 2.5 5 Miles

TITLE
NORTH ORANGE COUNTY
MAPPED SHALLOW GROUNDWATER

ORANGE COUNTY
INFILTRATION STUDY

CA

JOB
ORANGE CO.

SCALE	1" = 1.25 miles
DESIGNED	TH
DRAWING	TH
CHECKED	BMP
DATE	02/09/11
JOB NO.	9526-E

PACE
Advanced Water Engineering

FIGURE
XVI-2e

P:\9526E\6-GIS\Mxds\Reports\Infiltration\Feasability_20110215\9526E_FigureXVI-2e_DepthToGroundwater_11x17.mxd

SUBJECT TO FURTHER REVISION

PROJECT SOIL B

LOS ANGELES COUNTY
ORANGE COUNTY

SAN BERNARDINO COUNTY
ORANGE COUNTY

RIVERSIDE COUNTY
ORANGE COUNTY

LOS ANGELES COUNTY
ORANGE COUNTY

LEGEND

City Boundaries

Hydrologic Soil Groups

- A Soils
- B Soils
- C Soils
- D Soils

Source:
Soils: Natural Resources Conservation Service (NRCS)
Soil Survey - soil_ca678, Orange County & Western Riverside
Date of publication: 2006-02-08
http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm

0 2.5 5 10 Kilometers
0 1.8 3.6 7.2 Miles

TITLE
NRCS HYDROLOGIC SOILS GROUPS

JOB
ORANGE COUNTY INFILTRATION STUDY
ORANGE CO. CA

SCALE	1" = 1.8 miles
DESIGNED	TH
DRAWING	TH
CHECKED	BMP
DATE	02/09/11
JOB NO.	9526-E

PACE
Advanced Water Engineering

FIGURE
XVI-2a

P:\9526E\6-GIS\Mxds\Reports\Infiltration\Feasability_20110215\9526E_Figure XVI-2a_Hydro Soils_20110215.mxd

Attachment J.. .....BMP Fact Sheets

BIO-7: Proprietary Biotreatment

Proprietary biotreatment devices are devices that are manufactured to mimic natural systems such as bioretention areas by incorporating plants, soil, and microbes engineered to provide treatment at higher flow rates or volumes and with smaller footprints than their natural counterparts. Incoming flows are typically filtered through a planting media (mulch, compost, soil, plants, microbes, etc.) and either infiltrated or collected by an underdrain and delivered to the storm water conveyance system. Tree box filters are an increasingly common type of proprietary biotreatment device that are installed at curb level and filled with a bioretention type soil. For low to moderate flows they operate similarly to bioretention systems and are bypassed during high flows. Tree box filters are highly adaptable solutions that can be used in all types of development and in all types of soils but are especially applicable to dense urban parking lots, street, and roadways.

Also known as:

- *Catch basin planter box*
- *Bioretention vault*
- *Tree box filter*

Proprietary biotreatment
Source: http://www.americastusa.com /index.php/filterra/

Feasibility Screening Considerations

- Proprietary biotreatment devices that are unlined may cause incidental infiltration. Therefore, an evaluation of site conditions should be conducted to evaluate whether the BMP should include an impermeable liner to avoid infiltration into the subsurface.

Opportunity Criteria

- Drainage areas of 0.25 to 1.0 acres.
- Land use may include commercial, residential, mixed use, institutional, and subdivisions. Proprietary biotreatment facilities may also be applied in parking lot islands, traffic circles, road shoulders, and road medians.
- Must not adversely affect the level of flood protection provided by the drainage system.

OC-Specific Design Criteria and Considerations

☐ Frequent maintenance and the use of screens and grates to keep trash out may decrease the likelihood of clogging and prevent obstruction and bypass of incoming flows.

☐ Consult proprietors for specific criteria concerning the design and performance.

☐ Proprietary biotreatment may include specific media to address pollutants of concern. However, for proprietary device to be considered a biotreatment device the media must be capable of supporting rigorous growth of vegetation.

☐ Proprietary systems must be acceptable to the reviewing agency. Reviewing agencies shall have the discretion to request performance information. Reviewing agencies shall have the discretion to deny the use of a proprietary BMP on the grounds of performance, maintenance considerations, or other relevant factors.

☐ In right of way areas, plant selection should not impair traffic lines of site. Local jurisdictions may also limit plant selection in keeping with landscaping themes.

Computing Sizing Criteria for Proprietary Biotreatment Device

- Proprietary biotreatment devices can be volume based or flow-based BMPs.
- Volume-based proprietary devices should be sized using the Simple Design Capture Volume Sizing Method described in **Appendix III.3.1** or the Capture Efficiency Method for Volume-Based, Constant Drawdown BMPs described in **Appendix III.3.2**.
- The required design flowrate for flow-based proprietary devices should be computed using the Capture Efficiency Method for Flow-based BMPs described in **Appendix III.3.3)**.

In South Orange County, the provided ponding plus pore volume must be checked to demonstrate that it is greater than 0.75 of the remaining DCV that this BMP is designed to address. Many propretary biotreatment BMPs will not be able to meet the definition of "biofiltration" that applies in South Orange County. See Section III.7 and Worksheet SOC-1.

Additional References for Design Guidance

- Los Angeles Unified School District (LAUSD) Stormwater Technical Manual, Chapter 4: **http://www.laschools.org/employee/design/fs-studies-and-reports/download/white_paper_report_material/Storm_Water_Technical_Manual_2009-opt-red.pdf?version_id=76975850**
- Los Angeles County Stormwater BMP Design and Maintenance Manual, Chapter 9: **http://dpw.lacounty.gov/DES/design_manuals/StormwaterBMPDesignandMaintenance.pdf**
- Santa Barbara BMP Guidance Manual, Chapter 6: **http://www.santabarbaraca.gov/NR/rdonlyres/91D1FA75-C185-491E-A882-49EE17789DF8/0/Manual_071008_Final.pdf**

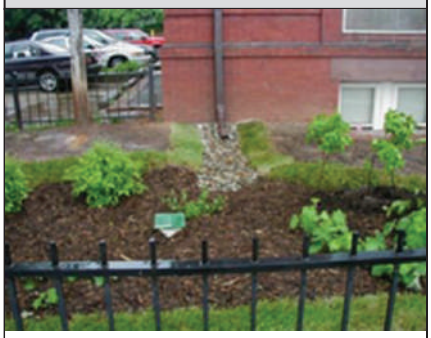
XIV.1. Hydrologic Source Control Fact Sheets (HSC)

HSC-1: Localized On-Lot Infiltration

'Localized on-lot infiltration' refers to the practice of collecting on-site runoff from small distributed areas within a catchment and diverting it to a dedicated on-site infiltration area. This technique can include disconnecting downspouts and draining sidewalks and patios into french drains, trenches, small rain gardens, or other surface depressions. For downspout disconnections and other impervious area disconnection involving dispersion over pervious surfaces, but without intentional ponding, see HSC-2: Impervious Area Dispersion.

Also known as:

- *Downspout infiltration*
- *Retention grading*
- *French drains*
- *On-lot rain gardens*



On-lot rain garden
Source: lowimpactdevelopment.org

Feasibility Screening Considerations

- 'Localized on-lot infiltration' shall meet infiltration infeasibility screening criteria to be considered for use.

Opportunity Criteria

- Runoff can be directed to and temporarily pond in pervious area depressions, rock trenches, or similar.
- Soils are adequate for infiltration or can be amended to provide an adequate infiltration rate.
- Shallow utilities are not present below infiltration areas.

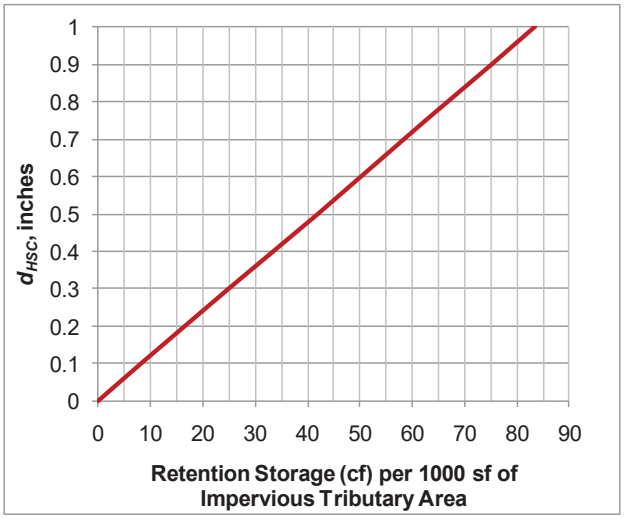
OC-Specific Design Criteria and Considerations

- ☐ A single on-lot infiltration area should not be sized to retain runoff from impervious areas greater than 4,000 sq. ft.; if the drainage area exceeds this criteria, sizing should be based on calculations for bioretention areas or infiltration trenches.
- ☐ Soils should be sufficiently permeable to eliminate ponded water within 24 hours following a 85th percentile, 24-hour storm event.
- ☐ Maximum ponding depth should be should be less than 3 inches and trench depth should be less than 1.5 feet.
- ☐ Infiltration should not be used when the depth to the mounded seasonally high table is within 5 feet of the bottom of infiltrating surface.
- ☐ Infiltration via depression storage, french drains, or rain gardens should be located greater than 8 feet from building foundations.
- ☐ Site slope should be less than 10%.
- ☐ Infiltration unit should not be located within 50 feet of slopes greater than 15 percent.
- ☐ Side slopes of rain garden or depression storage should not exceed 3H:1V.
- ☐ Effective energy dissipation and uniform flow spreading methods should be employed to prevent erosion resulting fromwater entering infiltration areas.

☐ Overflow should be located such that it does not cause erosion orand is conveyed away from structures toward the downstream conveyance and treatment system. .

Calculating HSC Retention Volume

- The retention volume provided by localized on-lot infiltration can be computed as the storage volume provided by surface ponding and the pore space within an amended soil layer or gravel trench.
- Estimate the average retention volume per 1000 square feet impervious tributary area provided by on-lot infiltration.
- Look up the storm retention depth, d_{HSC} from the chart to the right.
- The max d_{HSC} is equal to the design capture storm depth for the project site.



Configuration for Use in a Treatment Train

- Localized on-lot infiltration would typically serve as the first in a treatment train and should only be used where tributary areas do not generate significant sediment that would require pretreatment to mitigate clogging.
- The use of impervious area disconnection reduces the sizing requirement for downstream LID and/or conventional treatment control BMPs.

Additional References for Design Guidance

- LID Center – Rain Garden Design Template. http://www.lowimpactdevelopment.org/raingarden_design/
- University of Wisconsin Extension. Rain Gardens: A How-To Manual for Homeowners. http://learningstore.uwex.edu/assets/pdfs/GWQ037.pdf

XIV.4. Harvest and Use BMP Fact Sheets (HU)

HU-1: Above-Ground Cisterns

Cisterns are large rain barrels. While rain barrels are less than 100 gallons, cisterns range from 100 to more than 10,000 gallons in capacity. Cisterns collect and temporarily store runoff from rooftops for later use as irrigation and/or other non-potable uses. The following components are generally required for installing and utilizing a cistern: (1) pipes that divert rooftop runoff to the cistern, (2) an overflow for when the cistern is full, (3) a pump, and (4) a distribution system to supply the intended end uses.

Above-Ground Cisterns
Source: Sunset Publishing Corporation

Feasibility screening consideration, opportunity criteria, design criteria, etc. for this BMP are listed below under HU-2: Underground Detention.

HU-2: Underground Detention

Underground detention facilities are subsurface tanks, vaults, or oversized pipes that store stormwater runoff. Similar to cisterns, underground detention facilities can store water for later use as irrigation and/or other non-potable uses.

Underground detention tank
Source: www.webtecgeos.com

Feasibility Screening Considerations

- The primary feasibility considerations for harvest and use systems for stormwater management is the presence of consistent and reliable demand that is sufficient to drain the systems relatively quickly between storms. **Appendix X** provides guidance for calculating harvested water demand.
- Use of harvested water should not conflict with applicable plumbing and health codes at the time of project application.

Opportunity Criteria

- Cisterns may collect rooftop runoff, and if located underground, may collect ground-level runoff.
- Cisterns may be installed in any type of land use provided space is available and adequate water demand exists.
- Stored water may supply non-potable water use demands such as irrigation and toilet flushing.
- Cisterns and underground detention facilities may also be used for peak flow control if active storage volume and hydraulic controls are provided above the retained storage or systems are operated with advanced controllers.

OC-Specific Design Criteria and Considerations for Above-Ground Cisterns

☐ Cistern systems should include prescreening in the form of screens on gutters and downspouts to remove vegetative debris and sediment from the runoff prior to entering the cistern.

- ☐ Above-ground cisterns should be secured in place and comply with applicable building codes.
- ☐ Above-ground cisterns should not be located on uneven or sloped surfaces; if installed on a sloped surface, the base where the cistern will be installed should be leveled and designed for the weight of the filled cistern prior to installation.
- ☐ Child-resistant covers and mosquito screens should be placed on all water entry holes.
- ☐ A first flush diverter may be installed so that initial runoff bypasses the cistern.
- ☐ Above-ground cisterns should be installed in a location with easy access for maintenance or replacement.
- ☐ Plumbing systems should be installed in accordance with the current California Building and Plumbing Codes (CBC – part of California Code of Regulations, Title 24).
- ☐ When a potable water supply line is connected to a cistern system to provide dry-season make-up water, cross-contamination should be prevented by providing a backflow prevention system on the potable water supply line and/or an air gap.
- ☐ In cases where there is non-potable indoor use demand, proper pretreatment measures should be installed such as pre-filtration, cartridge filtration, and/or disinfection.

OC-Specific Design Criteria and Considerations for Underground Cisterns/Detention Systems

- ☐ Access entry covers (36” diameter minimum) should be locking and within 50 feet of all areas of the detention tank.
- ☐ In cases where the detention facility provides sediment containment, the facility should be laid flat and there should be at least ½ foot of dead storage within the tank or vault.
- ☐ Outlet structures should be designed using the 100-year storm as overflow and should be easily accessible for maintenance activities.
- ☐ For detention facilities beneath roads and parking areas, structural requirements should meet H-20 load requirements.
- ☐ In cases where shallow groundwater may cause flotation, buoyant forces should be counteracted with backfill, anchors, or other measures.
- ☐ Underground detention facilities should be installed on consolidated and stable native soil; if the facility is constructed in fill slopes, a geotechnical analysis should be performed to ensure stability.
- ☐ Plumbing systems should be installed in accordance with the current California Building and Plumbing Codes (CBC – part of California Code of Regulations, Title 24).
- ☐ When a potable water supply line is connected to a cistern system to provide dry-season make-up water, cross-contamination should be prevented by providing a backflow prevention system on the potable water supply line and/or an air gap.
- ☐ In cases where there is non-potable indoor reuse demand, proper pretreatment measures should be installed such as pre-filtration, cartridge filtration, and/or disinfection.

Types of Harvested Water Demands

Harvested rainwater can be used for irrigation and other non-potable uses (if local, State, and Federal ordinances allow). The use of captured stormwater allows a reduced demand on the potable water supply.

Irrigation Use

- Subsurface (or drip) irrigation should not require disinfection pretreatment prior to use; other irrigation types, such as spray irrigation, may require additional pretreatment prior to use
- Selecting native and/or drought tolerant plants for landscaped area will reduce irrigation demand, thereby reducing the needed size of the storage facility and the amount of tributary area that can be successfully managed with a harvest and use system.

Indoor Use

- Indoor uses generally require filtration and disinfection and should only be considered if permitted by local, State, or Federal codes and ordinances.
- Domestic uses (single-family uses) may include toilet flushing.
- Offices, commercial developments, and industrial facility indoor uses may use cisterns for toilet and urinal flushing. Demands for these specific land uses are include in **Appendix X**.
- Pretreatment requirements per local, State, or Federal codes and ordinances should be applied

Other Non-Potable Uses

- Other non-potable uses may include vehicle/equipment washing, evaporative cooling, industrial processes, and dilution water for recycled water systems (if local, State, and Federal ordinances allow)
- Pretreatment requirements per local, State, or Federal codes and ordinances should be applied

Harvested Water Demand Calculations and Feasibility Thresholds

Appendix X provides guidance for estimating harvesting water demand and determining whether demand is potentially sufficient to provide a significant benefit for stormwater management.

Simple Sizing Method for Cisterns

If the Simple Design Capture Volume Sizing Method described in **Appendix III.3.1** is used to size harvest and use systems, the user calculates the DCV and determines whether demand is sufficient to drain the tank in 48 hours following the end of rainfall. The sizing steps are as follows:

Step 1: Determine Cistern DCV

Calculate the DCV using the Simple Design Capture Volume Sizing Method described in **Appendix III.3.1**. This is the required cistern size.

Step 2: Determine the 48-hour Required Demand

Calculate the daily demand needed to draw down the DCV in 48 hours using the following equation:

$Demand_{48} = (DCV/2)*7.48$

Where:

$Demand_{48}$ = daily demand required (gal/day)

DCV = design capture volume, cu-ft

Use the guidance in **Appendix X** determine the non-potable uses needed to generate the required demand.

Designing Cisterns to Achieve the Maximum Feasible Retention Volume

It is rare that cisterns can be sized to capture the full DCV and use this volume in 48 hours. However, if the demand exceeds minimum harvested water demand thresholds, cisterns should be sized to achieve at least 40 percent capture of average annual runoff volume.

Step 1: Determine if the Project Meets the Minimum Harvested Water Demand Thresholds

Determine the Project's design capture storm depth, then use the TUTIA thresholds table (**Appendix X**) for indoor uses, or the Irrigated Area thresholds table (**Appendix X**) for outdoor uses, to determine whether the project meets the minimum harvested water demand thresholds. If the project does not meet the minimum harvested water demand thresholds, harvest and use does not meet the minimum incremental benefit required to such that its use must be evaluated. .

If the project meets or exceeds the minimum harvested water demand thresholds, continue to Step 2 **or** Step 3 (equally-allowable pathways).

Step 2: Iteratively Determine the Cistern Volume for 80 percent capture of average annual stormwater runoff volume

Cisterns can be sized using the Capture Efficiency Method for Volume-Based, Constant Drawdown BMPs (See **Appendix III.3.2**). This approach requires an iterative sizing process in which the user selects the initial cistern size and the project harvested water demand, then calculates the time required for the cistern to drain. Based on the drain time, the cistern size is increased or decreased and the calculations are done again until the initially assumed size and the required size are within 10 percent.

a. Calculate wet season harvested water demand using guidance contained in **Appendix X**.
b. Select cistern size in terms of the design rainfall depth.
c. Calculate the cistern volume using hydrologic method described in **Appendix III.1.1**.
d. Compute the drawdown time of the cistern as:

   Drawdown Time (hr) = [Volume (cu-ft) × 7.48 gal/cu-ft× 24hr/day]/[Demand (gpd)]

e. Based on design rainfall depth and drawdown time using guidance provided in **Appendix** III to calculate long term average capture efficiency.
f. If capture is between 75 and 85 percent, further iterations are not required.
g. If capture is less than 80 percent capture of average annual stormwater runoff volume, return to Step (b) and increase design rainfall depth.
h. If capture is greater than 80 percent, return to Step (b) and increase design rainfall depth.

Step 3: Determine Cistern Volume and Drawdown to Achieve Maximum Practicable Capture Efficiency

The applicant is not required to provide a cistern greater than the DCV to demonstrate that BMPs have been designed to achieve the maximum feasible retention. The following steps should be used to compute the maximum feasible fraction of stormwater than can be retained with harvest and use BMPs:

a. Calculate wet season harvested water demand using guiance contained in **Appendix X**, accounting for all applicable demands.
b. Calculate the DCV using hydrologic method described in **Appendix III.1.1** and size the cistern for this volume.

c. Compute the drawdown time of the cistern as:

   Drawdown Time (hr) = [Volume (cu-ft) × 7.48 gal/cu-ft× 24hr/day]/[Demand (gpd)]

d. Based on 1.0 × design capture storm depth and the drawdown time computed in Step I, calculate the long term average capture efficiency using the Capture Efficiency Method for Volume-Based, Constant Drawdown BMPs (See **Appendix III.3.2**).

e. If capture efficiency is less than 40 percent, harvest and use is not required to be considered for use on the project.

f. If capture efficiency is greater than 40 percent, provide a cistern sized for the DCV and provide volume or flowate to treat the remaining volume up to 80 percent total average annual capture using biotreatment BMP.

Configuration for Use in a Treatment Train

- Cisterns can be combined into a treatment train to provide enhanced water quality treatment and reductions in the runoff volume and rate. For example, if a green roof is placed upgradient of a cistern, the rate and volume of water flowing to the cistern can be reduced and the water quality enhanced.
- Cisterns can be incorporated into the landscape design of a site and can be aesthetically pleasing as well as functional for irrigation purposes.
- Treatment of the captured rainwater (i.e. disinfection) may be required depending on the end use of the water.
- Cisterns can be designed to overflow to biotreatment BMPs.

Additional References for Design Guidance

Santa Barbara BMP Guidance Manual, Chapter 6:
http://www.santabarbaraca.gov/NR/rdonlyres/91D1FA75-C185-491E-A882-49EE17789DF8/0/Manual_071008_Final.pdf

- County of Los Angeles Low Impact Development Standards Manual, Chapter 5:
  http://dpw.lacounty.gov/wmd/LA_County_LID_Manual.pdf
- SMC LID Manual (pp 114):
  http://www.lowimpactdevelopment.org/guest75/pub/All_Projects/SoCal_LID_Manual/SoCalLID_Manual_FINAL_040910.pdf

San Diego County LID Handbook Appendix 4 (Factsheet 26):
http://www.sdcounty.ca.gov/dplu/docs/LID-Appendices.pdf

XIV.7. Pretreatment/Gross Solids Removal BMP Fact Sheets (PRE)

PRE-1: Hydrodynamic Separation Device

Hydrodynamic separation devices are inline pretreatment units designed to remove trash, debris, and coarse sediment using screening, gravity settling, and centrifugal forces generated by forcing the influent into a circular motion. Several companies manufacture units with a variety of design components including separate chambers, baffles, sorbent media, screens, and flow control orifices. Therefore, additional constituents may be targeted depending on the design; however, the short residence time and potential for captured materials to be released during high flows limits the acceptable use of this BMP type as a standalone treatment control BMP.

Also known as:

- *Vortex Separators*
- *Swirl Concentrators*
- *Gross solids removal devices (GSRDs)*

Hydrodynamic Separation Device
Source: Contech Stormwater Solution, Inc.

Opportunity Criteria

- Hydrodynamic separation devices are effective for the removal of coarse sediment, trash, and debris, and are useful as pretreatment in combination with other BMP types that target smaller particle sizes. They are most effective in urban areas where coarse sediment, trash, and debris are pollutants of concern.
- Hydrodynamic devices represent a wide range of device types that have different unit processes and design elements (e.g., storage versus flow-through designs, inclusion of media filtration, etc.) that vary significantly within the category. These design features likely have significant effects on BMP performance; therefore, generalized performance data for hydrodynamic devices is not practical.

OC-Specific Design Criteria and Considerations

☐ Proprietary hydrodynamic device BMP vendors are constantly updating and expanding their product lines so refer to the latest design guidance from each of the vendors. General guidelines on the performance, operations and maintenance of proprietary devices are provided by the vendors.

☐ Operations and maintenance requirements include: clearing trash, debris, and sediment around insert grate and inside chamber, and repairing screens and media if damaged or severely clogged.

Computing Sizing Criteria for Hydrodynamic Devices

- Hydrodynamic separation devices should be adequately sized to pretreat the entire design volume or design flow rate of the downstream BMP.
- The required design flowrate should be calculated based on the Capture Efficiency Method for Flow-based BMPs (See **Appendix** III) to achieve 80 percent capture of the average annual stormwater runoff volume.

Proprietary Hydrodynamic Device Manufacturer Websites

- Table XIV.1 is a list of manufacturers that provide hydrodynamic separation devices. The inclusion of these manufacturers does not represent an endorse of their products. Other devices and manufacturers may be acceptable for pretreatment.

Table XIV.1: Proprietary Hydrodynamic Device Manufacturer Websites

Device	Manufacturer	Website
Rinker In-Line Stormceptor®	Rinker Materials™	www.rinkerstormceptor.com
FloGard® Dual-Vortex Hydrodynamic Separator	KriStar Enterprises Inc.	www.kristar.com
Contech® CDS[a]™	Contech® Construction Products Inc.	www.contech-cpi.com
Contech® Vortechs™	Contech® Construction Products Inc.	www.contech-cpi.com
Contech® Vorsentry™	Contech® Construction Products Inc.	www.contech-cpi.com
Contech® Vorsentry™ HS	Contech® Construction Products Inc.	www.contech-cpi.com
BaySaver BaySeparator	Baysaver Technologies Inc.	www.baysaver.com

Additional References for Design Guidance

- CASQA BMP Handbook for New and Redevelopment: http://www.cabmphandbooks.com/Documents/Development/MP-51.pdf
- Los Angeles County Stormwater BMP Design and Maintenance Manual, Chapter 9: http://dpw.lacounty.gov/DES/design_manuals/StormwaterBMPDesignandMaintenance.pdf

APPENDIX E

NOISE MEASUREMENTS AND MODELING RESULTS

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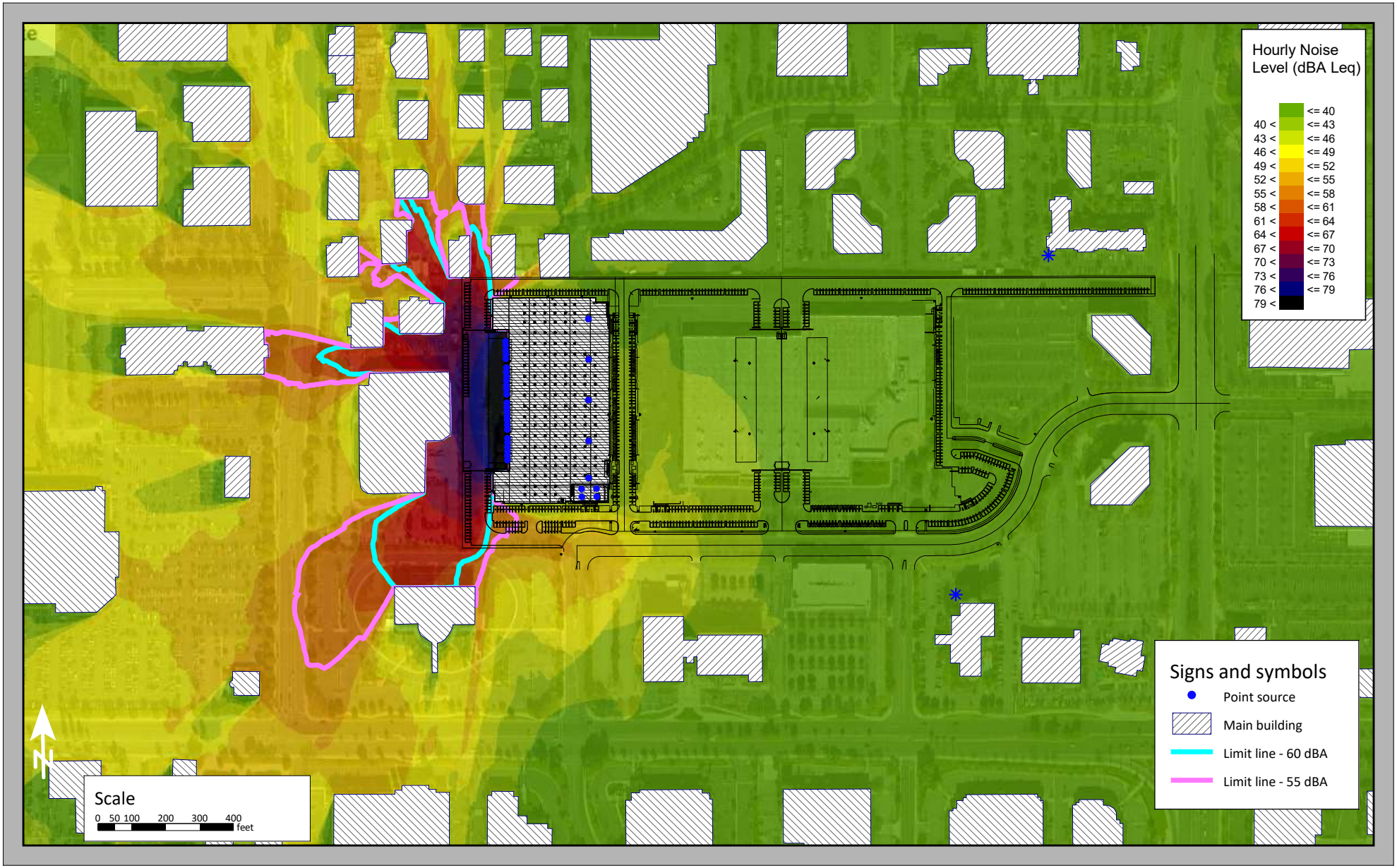
5665 Plaza Dr

Project No. CCP2201.04

Project Operational Noise Levels



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Noise Measurement Survey – 24 HR

Project Number: CCP2201.04
Project Name: 5665 Plaza Drive

Test Personnel: Kevin Nguyendo
Equipment: Spark 706RC (SN:905)

Site Number: LT-1 Date: 10/10/23

Time: From 1:00 p.m. To 1:00 p.m.

Site Location: 5865 Katella Avenue, Cypress, CA. Along the northern property line of the Marriott hotel on a utility pole.

Primary Noise Sources: Traffic on Plaza Drive, McDonnell Drive and Katella Avenue.

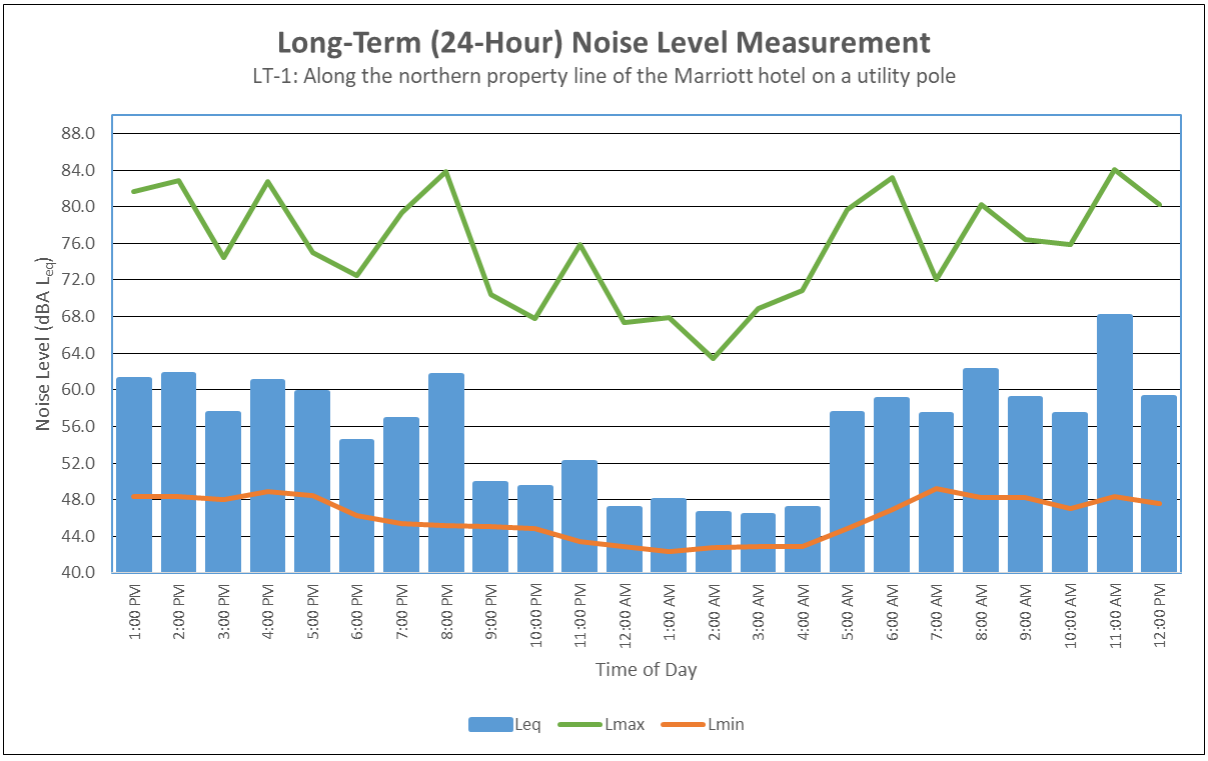
Comments:

Photo:

Long-Term (24-Hour) Noise Level Measurement Results at LT-1

Start Time	Date	Noise Level (dBA)		
		L_{eq}	L_{max}	L_{min}
1:00 PM	10/10/23	61.1	81.7	48.3
2:00 PM	10/10/23	61.7	82.9	48.3
3:00 PM	10/10/23	57.4	74.4	48.0
4:00 PM	10/10/23	60.9	82.8	48.9
5:00 PM	10/10/23	59.7	75.0	48.5
6:00 PM	10/10/23	54.3	72.5	46.3
7:00 PM	10/10/23	56.8	79.4	45.4
8:00 PM	10/10/23	61.6	83.8	45.2
9:00 PM	10/10/23	49.7	70.4	45.1
10:00 PM	10/10/23	49.3	67.8	44.9
11:00 PM	10/10/23	52.0	75.9	43.4
12:00 AM	10/11/23	47.0	67.4	42.9
1:00 AM	10/11/23	47.9	67.9	42.3
2:00 AM	10/11/23	46.5	63.4	42.8
3:00 AM	10/11/23	46.2	68.9	42.9
4:00 AM	10/11/23	47.1	70.8	42.9
5:00 AM	10/11/23	57.4	79.7	44.8
6:00 AM	10/11/23	59.0	83.2	46.9
7:00 AM	10/11/23	57.3	72.0	49.2
8:00 AM	10/11/23	62.1	80.2	48.2
9:00 AM	10/11/23	59.0	76.4	48.2
10:00 AM	10/11/23	57.3	75.9	47.0
11:00 AM	10/11/23	68.0	84.1	48.4
12:00 PM	10/11/23	59.2	80.2	47.6

Source: Compiled by LSA Associates, Inc. (2023).
dBA = A-weighted decibel
L_{eq} = equivalent continuous sound level
L_{max} = maximum instantaneous noise level
L_{min} = minimum measured sound level



Noise Measurement Survey – 24 HR

Project Number: CCP2201.04
Project Name: 5665 Plaza Drive

Test Personnel: Kevin Nguyendo
Equipment: Spark 706RC (SN:119)

Site Number: LT-2 Date: 10/10/23

Time: From 1:00 p.m. To 1:00 p.m.

Site Location: 5990 Corporate Avenue, Cypress, CA. Near the southwestern property line of The Extended Stay America hotel on a tree.

Primary Noise Sources: Traffic on Valley View Street. Parking lot activity.

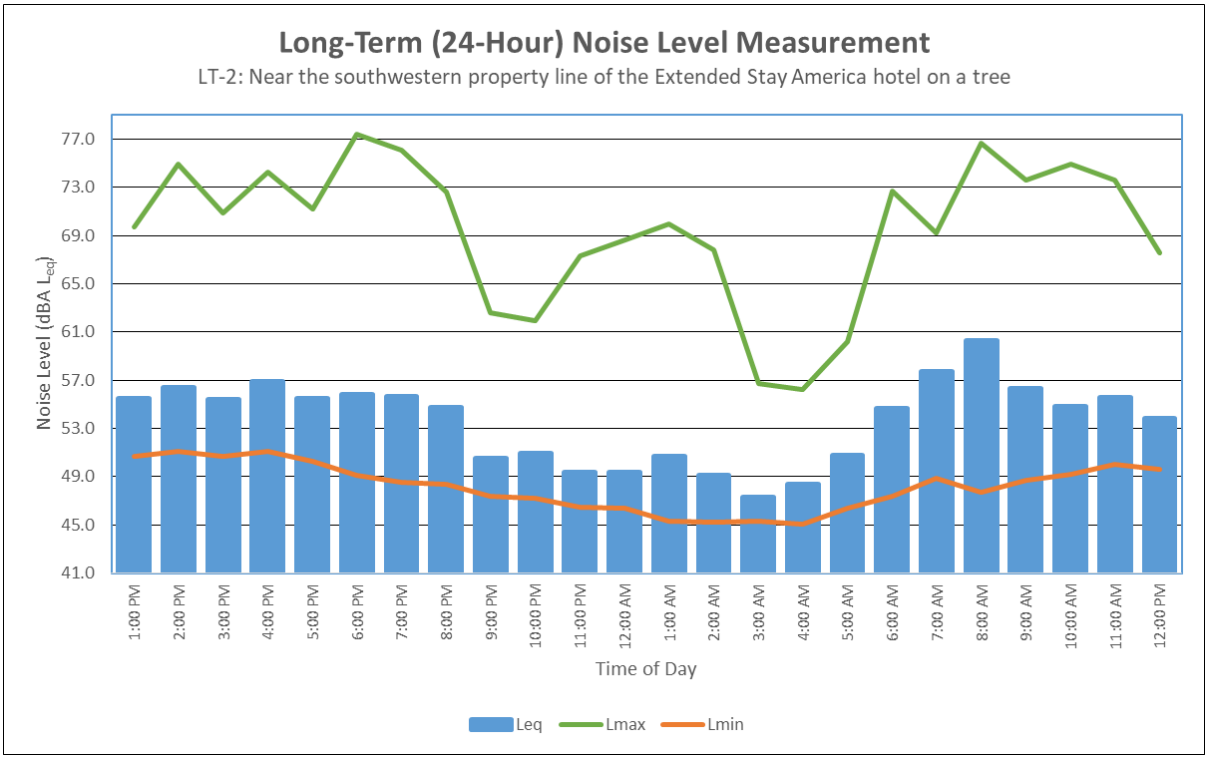
Comments:

Photo:

Long-Term (24-Hour) Noise Level Measurement Results at LT-2

Start Time	Date	Noise Level (dBA)		
		L_{eq}	L_{max}	L_{min}
1:00 PM	10/10/23	55.5	69.7	50.7
2:00 PM	10/10/23	56.4	74.9	51.1
3:00 PM	10/10/23	55.4	70.9	50.7
4:00 PM	10/10/23	56.9	74.3	51.1
5:00 PM	10/10/23	55.5	71.2	50.3
6:00 PM	10/10/23	55.8	77.4	49.1
7:00 PM	10/10/23	55.7	76.1	48.5
8:00 PM	10/10/23	54.7	72.6	48.4
9:00 PM	10/10/23	50.5	62.6	47.4
10:00 PM	10/10/23	50.9	61.9	47.2
11:00 PM	10/10/23	49.4	67.3	46.5
12:00 AM	10/11/23	49.4	68.6	46.4
1:00 AM	10/11/23	50.7	70.0	45.3
2:00 AM	10/11/23	49.1	67.8	45.2
3:00 AM	10/11/23	47.3	56.7	45.3
4:00 AM	10/11/23	48.4	56.2	45.1
5:00 AM	10/11/23	50.8	60.2	46.4
6:00 AM	10/11/23	54.6	72.7	47.4
7:00 AM	10/11/23	57.7	69.2	48.9
8:00 AM	10/11/23	60.3	76.7	47.7
9:00 AM	10/11/23	56.3	73.6	48.7
10:00 AM	10/11/23	54.8	74.9	49.2
11:00 AM	10/11/23	55.6	73.6	50.0
12:00 PM	10/11/23	53.8	67.6	49.6

Source: Compiled by LSA Associates, Inc. (2023).
dBA = A-weighted decibel
L_{eq} = equivalent continuous sound level
L_{max} = maximum instantaneous noise level
L_{min} = minimum measured sound level



Noise Measurement Survey – 24 HR

Project Number: CCP2201.04
Project Name: 5665 Plaza Drive

Test Personnel: Kevin Nguyendo
Equipment: Spark 706RC (SN:206)

Site Number: LT-3 Date: 10/10/23

Time: From 1:00 p.m. To 1:00 p.m.

Site Location: 10880 Walker Street, Cypress, CA. Along the eastern property line of an office Building on a tree.

Primary Noise Sources: Traffic on Walker Street. Parking lot activity.

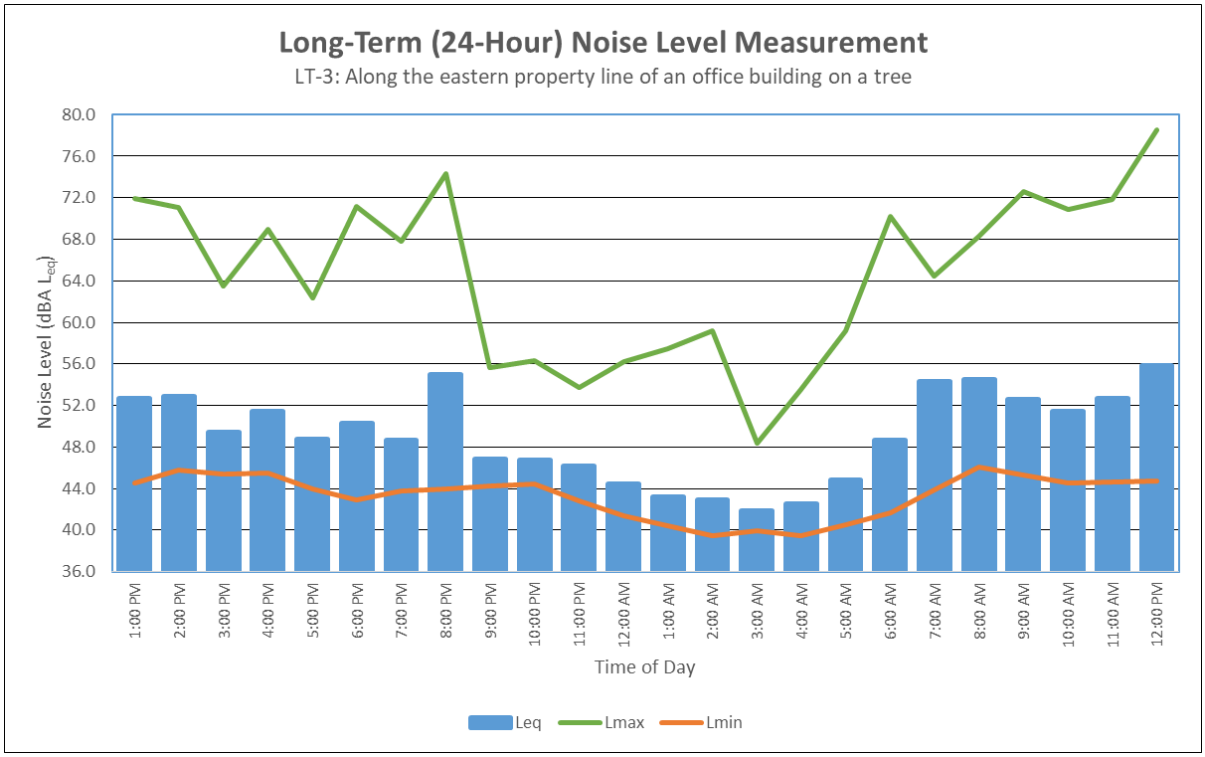
Comments:

Photo:

Long-Term (24-Hour) Noise Level Measurement Results at LT-3

Start Time	Date	Noise Level (dBA)		
		L_{eq}	L_{max}	L_{min}
1:00 PM	10/10/23	52.7	71.9	44.5
2:00 PM	10/10/23	52.8	71.1	45.8
3:00 PM	10/10/23	49.5	63.5	45.4
4:00 PM	10/10/23	51.4	69.0	45.5
5:00 PM	10/10/23	48.8	62.3	44.0
6:00 PM	10/10/23	50.3	71.2	42.9
7:00 PM	10/10/23	48.7	67.8	43.8
8:00 PM	10/10/23	55.0	74.3	44.0
9:00 PM	10/10/23	46.9	55.6	44.2
10:00 PM	10/10/23	46.7	56.3	44.4
11:00 PM	10/10/23	46.1	53.7	42.8
12:00 AM	10/11/23	44.4	56.2	41.4
1:00 AM	10/11/23	43.2	57.5	40.4
2:00 AM	10/11/23	42.9	59.2	39.5
3:00 AM	10/11/23	41.8	48.4	39.9
4:00 AM	10/11/23	42.5	53.5	39.5
5:00 AM	10/11/23	44.8	59.2	40.5
6:00 AM	10/11/23	48.6	70.2	41.7
7:00 AM	10/11/23	54.3	64.5	43.9
8:00 AM	10/11/23	54.5	68.3	46.1
9:00 AM	10/11/23	52.6	72.6	45.3
10:00 AM	10/11/23	51.4	70.9	44.5
11:00 AM	10/11/23	52.7	71.8	44.6
12:00 PM	10/11/23	55.8	78.5	44.7

Source: Compiled by LSA Associates, Inc. (2023).
dBA = A-weighted decibel
L_{eq} = equivalent continuous sound level
L_{max} = maximum instantaneous noise level
L_{min} = minimum measured sound level



Construction Calculations

Phase: Demolition

Equipment	Quantity	Reference (dBA) 50 ft Lmax	Usage Factor[1]	Distance to Receptor (ft)	Ground Effects	Noise Level (dBA) Lmax	Noise Level (dBA) Leq
Concrete Saw	1	90	20	50	0.5	90	83
Excavator	3	81	40	50	0.5	81	82
Dozer	2	82	40	50	0.5	82	81
					Combined at 50 feet	**91**	**87**

Phase: Site Preparation

Equipment	Quantity	Reference (dBA) 50 ft Lmax	Usage Factor[1]	Distance to Receptor (ft)	Ground Effects	Noise Level (dBA) Lmax	Noise Level (dBA) Leq
Dozer	3	82	40	50	0.5	82	83
Tractor	4	84	40	50	0.5	84	86
					Combined at 50 feet	**86**	**88**
					Combined at Receptor 1300 feet	**58**	**59**

Phase: Grading

Equipment	Quantity	Reference (dBA) 50 ft Lmax	Usage Factor[1]	Distance to Receptor (ft)	Ground Effects	Noise Level (dBA) Lmax	Noise Level (dBA) Leq
Excavator	2	81	40	50	0.5	81	80
Grader	1	85	40	50	0.5	85	81
Dozer	1	82	40	50	0.5	82	78
Scraper	2	84	40	50	0.5	84	83
Tractor	2	84	40	50	0.5	84	83
					Combined at 50 feet	**90**	**88**

Phase:Building Construstion

Equipment	Quantity	Reference (dBA) 50 ft Lmax	Usage Factor[1]	Distance to Receptor (ft)	Ground Effects	Noise Level (dBA) Lmax	Noise Level (dBA) Leq
Crane	1	81	16	50	0.5	81	73
Man Lift	3	75	20	50	0.5	75	73
Generator	1	81	50	50	0.5	81	78
Tractor	3	84	40	50	0.5	84	85
Welder / Torch	1	74	40	50	0.5	74	70
					Combined at 50 feet	**87**	**86**

Phase:Paving

Equipment	Quantity	Reference (dBA) 50 ft Lmax	Usage Factor[1]	Distance to Receptor (ft)	Ground Effects	Noise Level (dBA) Lmax	Noise Level (dBA) Leq
Paver	2	77	50	50	0.5	77	77
All Other Equipment > 5 HP	2	85	50	50	0.5	85	85
Roller	2	80	20	50	0.5	80	76
					Combined at 50 feet	**87**	**86**

Phase:Architectural Coating

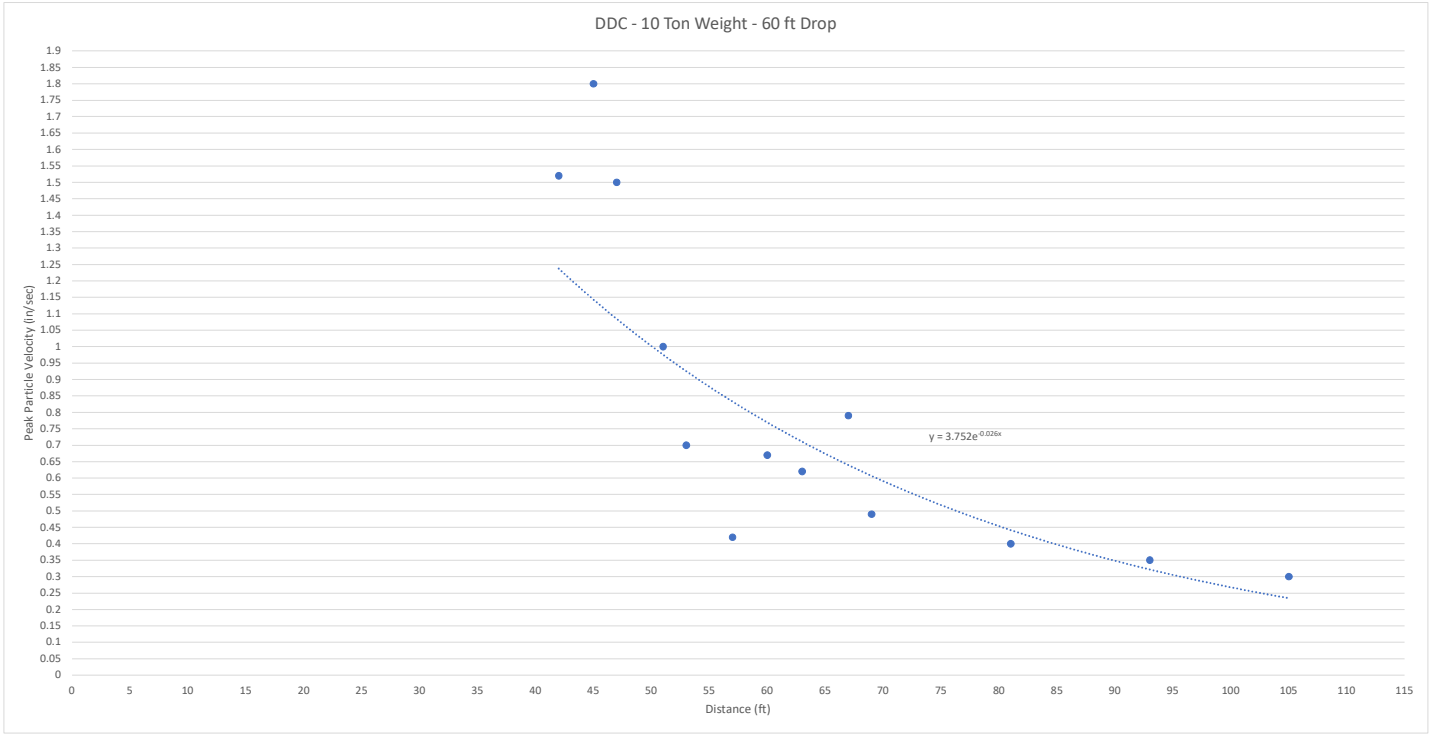
Equipment	Quantity	Reference (dBA) 50 ft Lmax	Usage Factor[1]	Distance to Receptor (ft)	Ground Effects	Noise Level (dBA) Lmax	Noise Level (dBA) Leq
Compressor (air)	1	78	40	50	0.5	78	74
					Combined at 50 feet	**78**	**74**

Sources: RCNM

[1]- Percentage of time that a piece of equipment is operating at full power.
dBA – A-weighted Decibels
Lmax- Maximum Level
Leq- Equivalent Level

DDC 10 Ton Weight 60 ft Drop

Distance (ft)	PPV (in/s)
42	1.52
45	1.8
47	1.5
51	1
53	0.7
57	0.42
60	0.67
63	0.62
67	0.79
69	0.49
81	0.4
93	0.35
105	0.3



APPENDIX F

TRAFFIC ANALYSIS

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URBAN | CROSSROADS

GOODMAN COMMERCE CENTER

TRAFFIC ANALYSIS

PREPARED BY: Charlene So | cso@urbanxroads.com
Aric Evatt | aevatt@urbanxroads.com

Reference Number	Agency	Date
15593-03 TA Report	City of Cypress	November 21, 2023

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Appendix 6.1: Future Year (2025) Without Project Conditions Intersection Operations Analysis Worksheets

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LIST OF ABBREVIATED TERMS

(1)	Reference
ADT	Average Daily Traffic
CAMUTCD	California Manual on Uniform Traffic Control Devices
Caltrans	California Department of Transportation
CMP	Congestion Management Program
E+P	Existing plus Project
HCM	Highway Capacity Manual
ICU	Intersection Capacity Utilization
ITE	Institute of Transportation Engineers
LOS	Level of Service
OCTA	Orange County Transit Authority
PCE	Passenger Car Equivalent
PHF	Peak Hour Factor
Project	Goodman Commerce Center
SCAQMD	South Coast Air Quality Management District
TA	Traffic Analysis
v/c	Volume to Capacity
vphgpl	Vehicles per Hour Green per Lane

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1 INTRODUCTION

This report presents the results of the Traffic Analysis (TA) for Goodman Commerce Center development ("Project"), which is located at 5665 Plaza Drive (Assessor's Parcel Number: 241-101-26) in the City of Cypress, as shown on Exhibit 1-1. The purpose of this TA is to evaluate the potential circulation system deficiencies that may result from the development of the proposed Project, and where necessary recommend improvements to achieve acceptable operations consistent with the City's General Plan level of service goals and policies. This TA has been prepared in accordance with the City's Transportation Operational Assessment (Level-Of-Service Traffic Study) Guidelines (dated April 2023) and through consultation with City of Cypress staff during the scoping process. (1) The Project traffic study scoping agreement is provided in Appendix 1.1 of this TA, which has been reviewed and approved by the City of Cypress.

1.1 SUMMARY OF FINDINGS

The Project is to construct the following improvements as design features in conjunction with development of the site:

- Project to construct the site frontage improvements needed to accommodate site access along Plaza Drive/Douglas Drive.
- Project to install stop controls for all egress traffic from each Project driveway. All driveways along Plaza Drive/Douglas Drive will accommodate full access (no turn restrictions).

Additional details and intersection lane geometrics are provided in Section 1.6 *Recommendations* of this report. The Project is not anticipated to require the construction of any off-site improvements and would also contribute to improvement needs identified at off-site intersections for future cumulative traffic conditions.

1.2 PROJECT OVERVIEW

A preliminary site plan for the proposed Project is shown on Exhibit 1-2. The Project includes the development of a 191,394 square foot warehouse building. The TA evaluates 191,394 square feet of high-cube cold storage warehouse use. The proposed Project will replace an existing 150,626 square foot office building. The anticipated Opening Year for the proposed Project is 2025. Access to the site will be accommodated via two driveways at Plaza Drive and Douglas Drive. In order to develop the traffic characteristics of the proposed project, trip-generation statistics published in the Institute of Transportation Engineers (ITE) Trip Generation Manual (11th Edition, 2021). (2) The Project is anticipated to generate a total of 406 two-way trips per day with 21 AM peak hour trips and 24 PM peak hour trips (actual vehicles). The assumptions and methods used to estimate the Project's trip generation characteristics are discussed in greater detail in Section 4.1 *Project Trip Generation* of this report.

EXHIBIT 1-1: LOCATION MAP

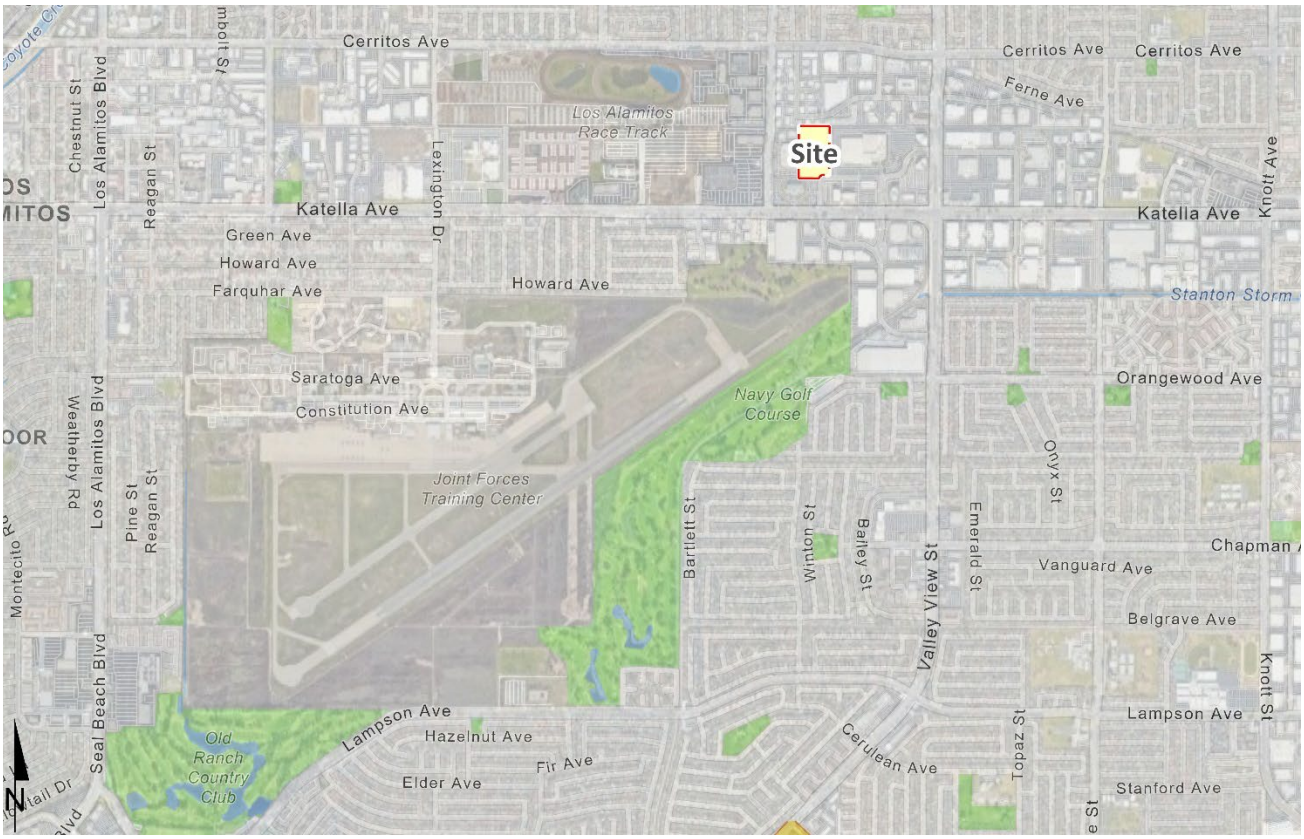
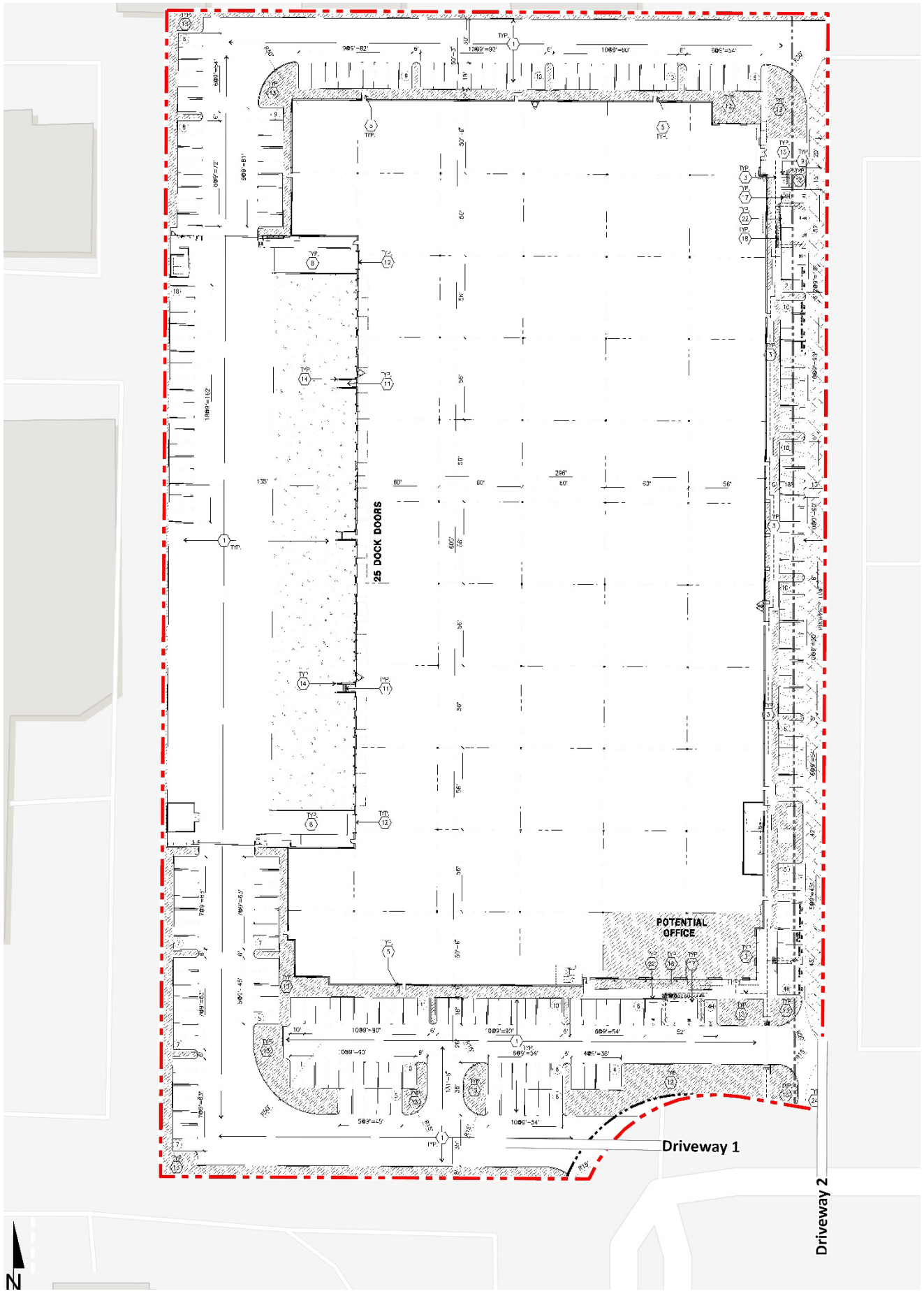


EXHIBIT 1-2: PRELIMINARY SITE PLAN



1.3 ANALYSIS SCENARIOS

For the purposes of this traffic study, potential deficiencies to traffic and circulation have been assessed for each of the following conditions:

- Existing (2023) Conditions
- Existing plus Project (E+P)
- Future Year (2025) Without Project
- Future Year (2025) With Project

1.3.1 EXISTING (2023) CONDITIONS

Information for Existing (2023) conditions is disclosed to represent the baseline traffic conditions as they existed at the time this report was prepared. Traffic volume utilized for the intersection operations analyses are based on 2022 traffic counts in conjunction with the application of a two percent adjustment/growth factor to reflect 2023 traffic conditions. For a detailed discussion on the existing traffic counts, see Section 3.6 *Existing Traffic Counts*.

1.3.2 E+P CONDITIONS

The E+P conditions analysis determines the potential circulation system deficiencies based on a comparison of the E+P traffic conditions to Existing conditions. The roadway network is similar to Existing conditions except for new connections to be constructed by the Project. Cumulative development projects and ambient growth are not included for E+P traffic conditions.

1.3.3 FUTURE YEAR (2025) CONDITIONS

The Future Year (2025) traffic conditions analysis determines the potential near-term cumulative circulation system deficiencies. The roadway network is similar to Existing conditions except for new connections to be constructed by the Project. To account for background traffic growth, an ambient growth factor from Existing (2023) conditions of 4.04% (2 percent per year, compounded over 2 years) is included for Future Year (2025) traffic conditions. Conservatively, this TA estimates the area ambient traffic growth and then adds traffic generated by other known or probable related projects. These related projects are at least in part already accounted for in the assumed ambient growth rates; and some of these related projects may not be implemented and operational within the 2025 Opening Year time frame assumed for the Project. The resulting traffic growth utilized in the TA (ambient growth factor plus traffic generated by related projects) would therefore tend to overstate rather than understate background cumulative traffic deficiencies under 2025 conditions.

1.4 STUDY AREA

To ensure that this TA satisfies the City of Cypress's traffic study requirements, Urban Crossroads, Inc. prepared a Project traffic study scoping package for review by City of Cypress staff prior to the preparation of this report. This agreement provides an outline of the Project study area, trip generation, trip distribution, and analysis methodology. The agreement approved by the City is included in Appendix 1.1 of this TA.

The 4 study area intersections shown on Exhibit 1-3 and listed in Table 1-1 were selected for evaluation in this TA based on consultation with City of Cypress staff. At a minimum, the study area includes intersections where the Project is anticipated to contribute 25 or more peak hour trips per the City's Guidelines. (1) The 25 peak hour trip criterion has been used for the purposes of estimating a potential area of influence (i.e., study area).

TABLE 1-1: INTERSECTION ANALYSIS LOCATIONS

#	Intersection	Jurisdiction	CMP?
1	Douglas Dr./Warland Dr. & Katella Av.	City of Cypress	No
2	Douglas Dr./Dwy. 2 & Dwy. 1/Plaza Dr.	City of Cypress	No
3	Existing Driveway/McDonnell Dr. & Plaza Dr.	City of Cypress	No
4	Valley View St. & Plaza Dr./Chip Av.	City of Cypress	No

The intent of a Congestion Management Program (CMP) is to more directly link land use, transportation, and air quality, thereby prompting reasonable growth management programs that will effectively utilize new transportation funds, alleviate traffic congestion and related deficiencies, and improve air quality. The County of Orange CMP became effective with the passage of Proposition 111 in 1990 and most recently updated in 2021. (3) There are no study area intersections identified as a CMP intersection.

1.5 DEFICIENCIES

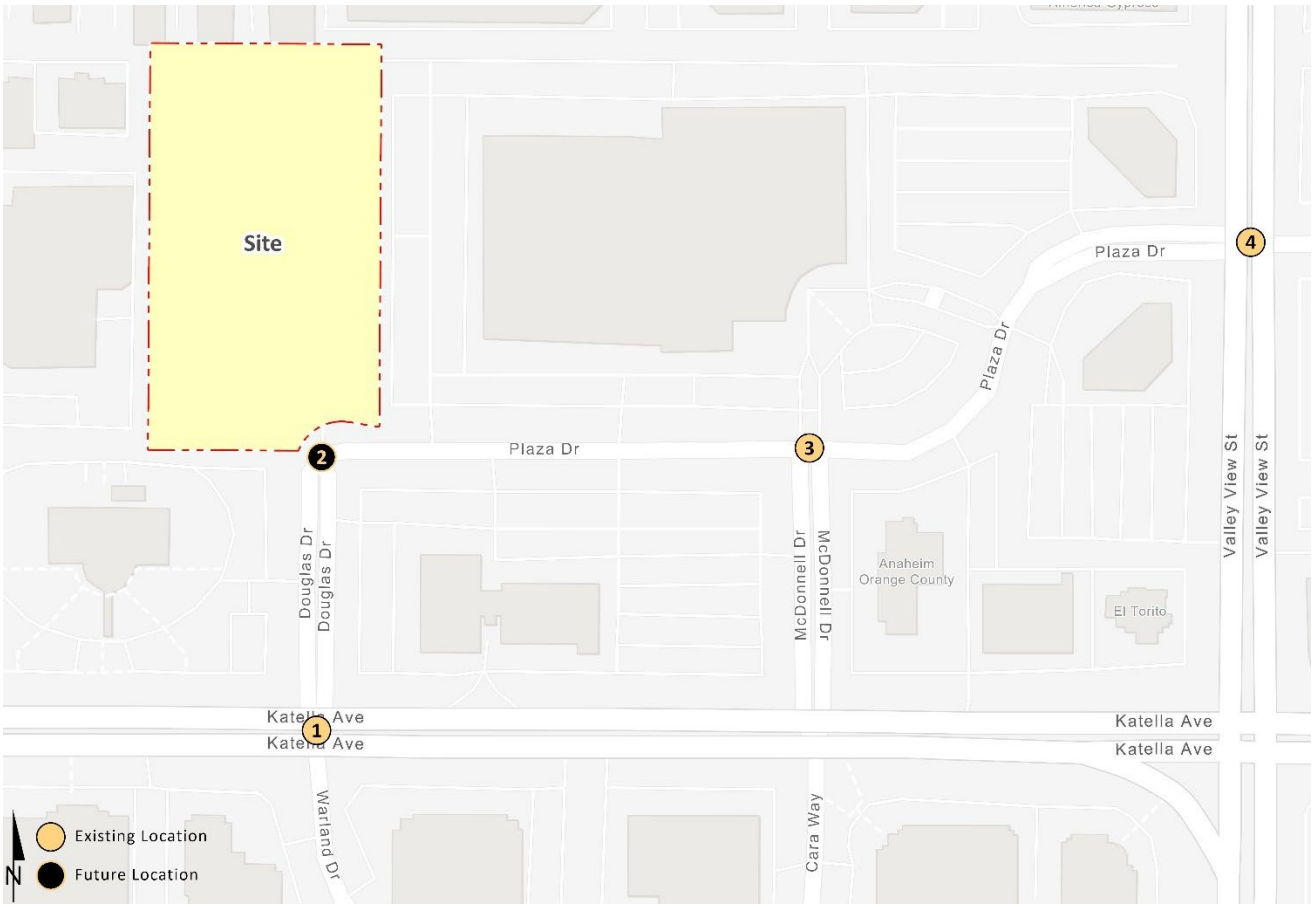
This section provides a summary of deficiencies by analysis scenario. Section 2 *Methodologies* provides information on the methodologies used in the analysis, Section 5 *Existing plus Project Traffic Conditions,* and Section 6 *Future Year (2025) Traffic Conditions* include the detailed analysis. A summary of level of service (LOS) results for all analysis scenarios is presented on Table 1-2.

TABLE 1-2: SUMMARY OF LOS

		Existing		E+P		2025 NP		2025 WP	
#	Intersection	AM	PM	AM	PM	AM	PM	AM	PM
1	Douglas Dr./Warland Dr. & Katella Av.	●	●	●	●	●	●	●	●
2	Douglas Dr./Dwy. 2 & Dwy. 1/Plaza Dr.	●	●	●	●	●	●	●	●
3	Existing Driveway/McDonnell Dr. & Plaza Dr.	●	●	●	●	●	●	●	●
4	Valley View St. & Plaza Dr./Chip Av.	●	●	●	●	●	●	●	●

● = A - D ● = E ● = F

EXHIBIT 1-3: STUDY AREA



1.5.1 EXISTING (2023) CONDITIONS

The study area intersections are currently operating at an acceptable LOS during the peak hours.

1.5.2 E+P CONDITIONS

The study area intersections are anticipated to continue to operate at an acceptable LOS during the peak hours with the addition of Project traffic.

1.5.3 FUTURE YEAR (2025) CONDITIONS

The study area intersections are anticipated to continue to operate at an acceptable LOS under Future Year (2025) Without and With Project traffic conditions.

1.6 RECOMMENDATIONS

The following recommendations are based on the minimum improvements needed to accommodate site access and maintain acceptable peak hour operations for the proposed Project.

Recommendation 1 – Driveway 2/Douglas Drive & Driveway 1/Plaza Drive (#2) – The following improvements are necessary to accommodate site access:

- Project to install a stop control on the southbound approach and eastbound approach (egress Project traffic) to implement an all-way stop-controlled intersection. Driveway 1/Driveway 2 will accommodate site access for passenger cars and trucks and will accommodate full access (no turn restrictions).
- The northwest curb of Driveway 1 should be modified to accommodate a 25-foot curb radius to accommodate the egress of heavy trucks.

Recommendation 2 – Truck Access & Routing Plan – A revised truck access and routing plan should be prepared for the proposed Project identifying the proposed signage that needs to be implemented on-site to direct trucks per the proposed circulation of trucks as noted in this report.

On-site traffic signing and striping should be implemented agreeable with the provisions of the California Manual on Uniform Traffic Control Devices (CA MUTCD) and in conjunction with detailed in the master signing program and construction plans for the Project site.

Sight distance at each project access point should be reviewed with respect to standard Caltrans and City of Cypress sight distance standards at the time of preparation of final grading, landscape, and street improvement plans.

Recommendation 3 – Douglas Drive/Warland Drive & Katella Avenue – Install a new southbound signal head on the northwest corner for southbound approach vehicles in order to display the signal indication should a truck in the southbound lanes obstruct the existing signal heads on the mast arm. The new signal head is proposed to be mounted on the existing signal pole on the northwest corner.

1.7 TRUCK ACCESS

Due to the typical wide turning radius of large trucks, a truck turning template has been overlaid on the site plan at Driveway 1 and Driveway 2 (at the intersection of Douglas Drive and Plaza Drive) which is anticipated to be utilized by heavy trucks in order to determine appropriate curb radii and to verify that trucks will have sufficient space to execute turning maneuvers. A WB-67 truck (53-foot trailer) has been utilized for the purposes of this analysis. Driveway 1 on Douglas Drive is anticipated to accommodate the ingress and egress of heavy trucks as currently designed to and from the east on Plaza Drive and south on Douglas Drive, however, the northwest curb of Driveway 2 should be modified to accommodate a 25-foot curb radius to accommodate the egress of heavy trucks. Ingress and egress of heavy trucks will also be permitted at Driveway 2 on Plaza Drive.

Exhibit 1-4 and Exhibit 1-5 reflect the inbound and outbound truck access at Driveway 1, respectively. Exhibit 1-6 and Exhibit 1-7 reflect the inbound and outbound truck access at Driveway 2, respectively.

Exhibit 1-8 and Exhibit 1-9 show the inbound and outbound on-site circulation of trucks via Driveway 2 around the north side of the building, respectively. Inbound and outbound on-site circulation of trucks via Driveway 1 around the south side of the building was previously shown on Exhibit 1-4 and Exhibit 1-5. On-site signage will be provided to direct trucks per the proposed/allowable circulation. Trucks backing into the dock bay on-site within the truck court for the building is shown on Exhibit 1-10.

EXHIBIT 1-4: INBOUND TRUCK ACCESS AT DRIVEWAY 1

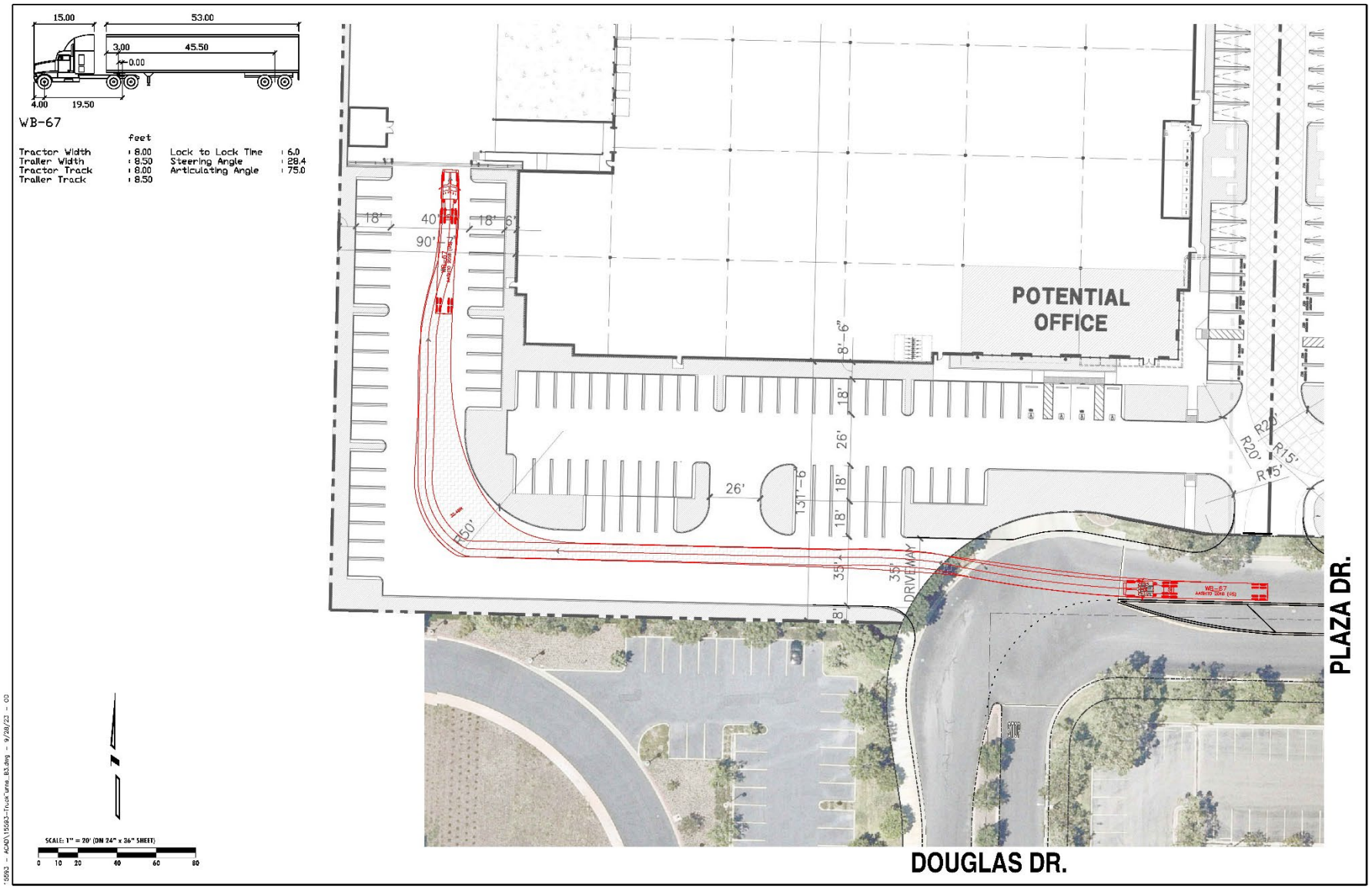


EXHIBIT 1-5: OUTBOUND TRUCK ACCESS AT DRIVEWAY 1

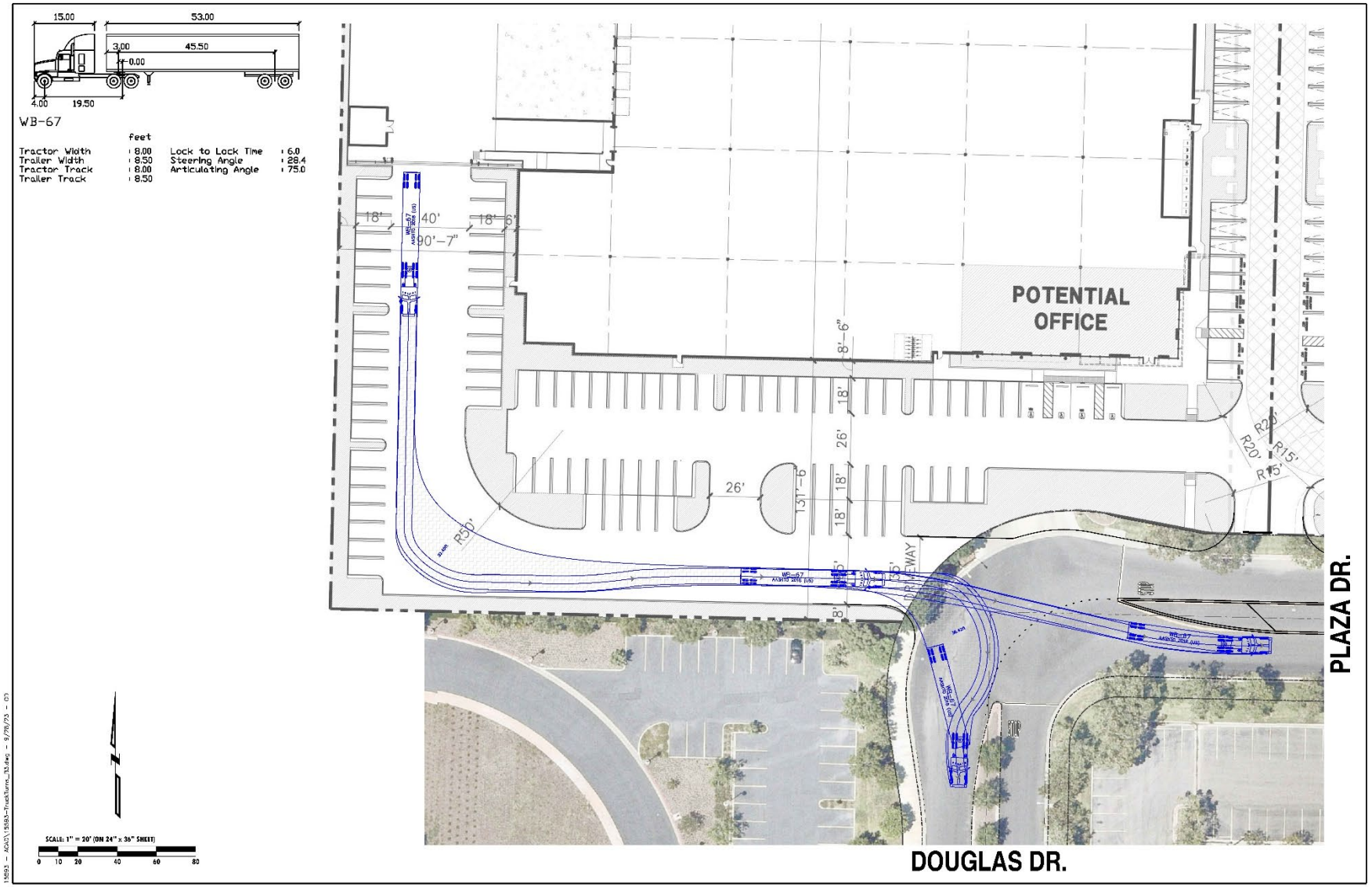


EXHIBIT 1-6: INBOUND TRUCK ACCESS AT DRIVEWAY 2

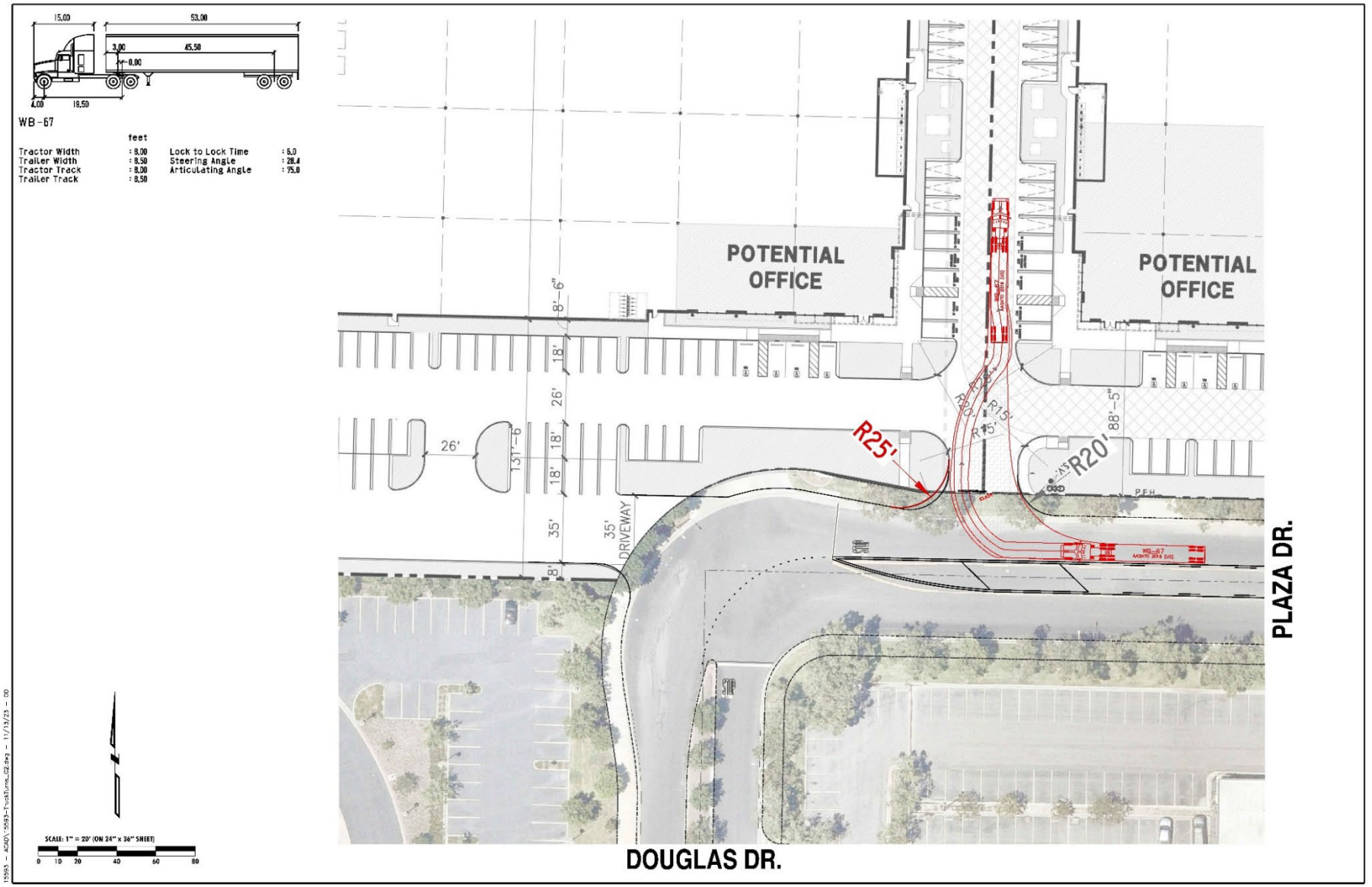


EXHIBIT 1-7: OUTBOUND TRUCK ACCESS AT DRIVEWAY 2

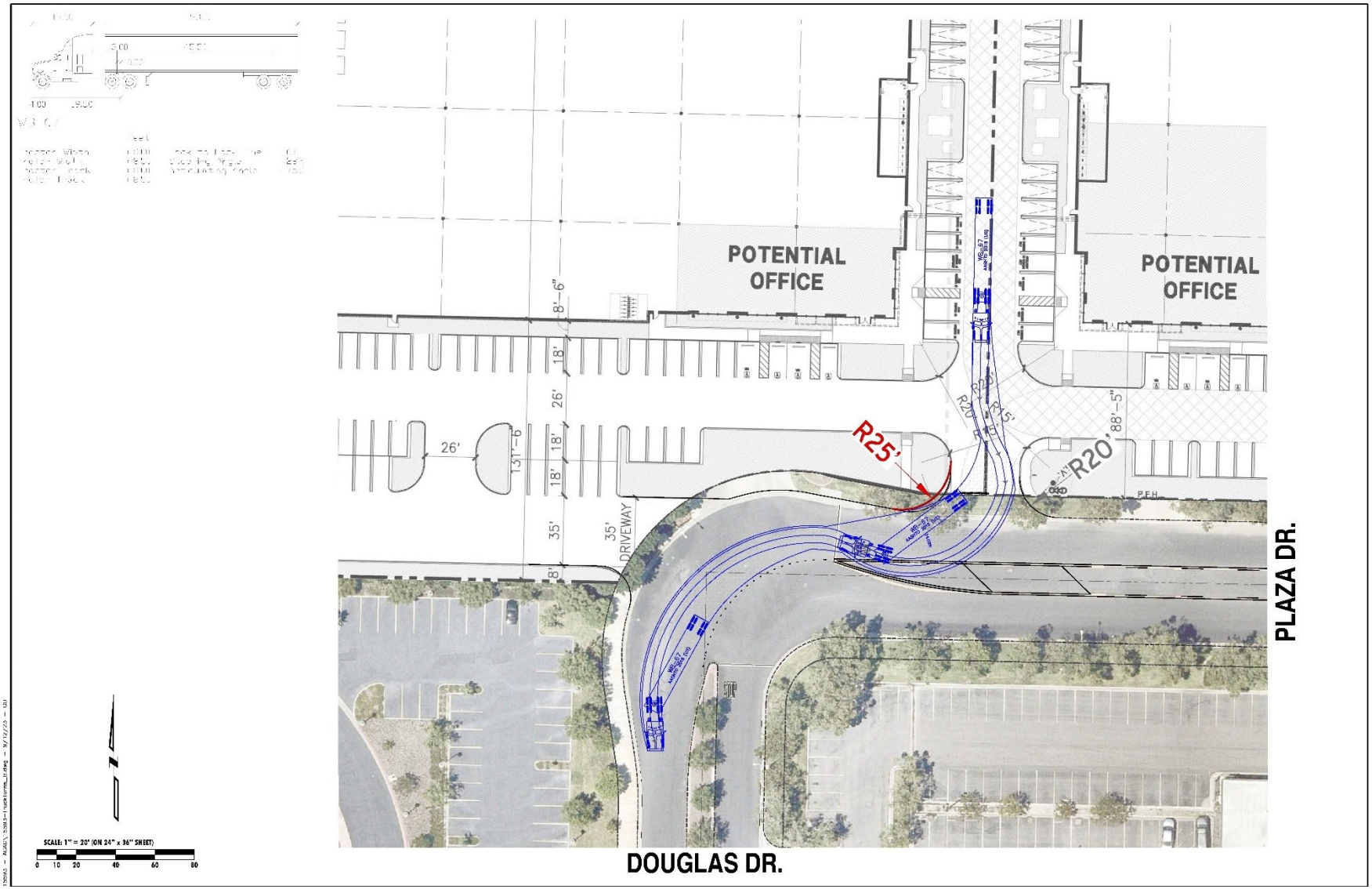


EXHIBIT 1-8: INBOUND ON-SITE TRUCK CIRCULATION VIA DRIVEWAY 2

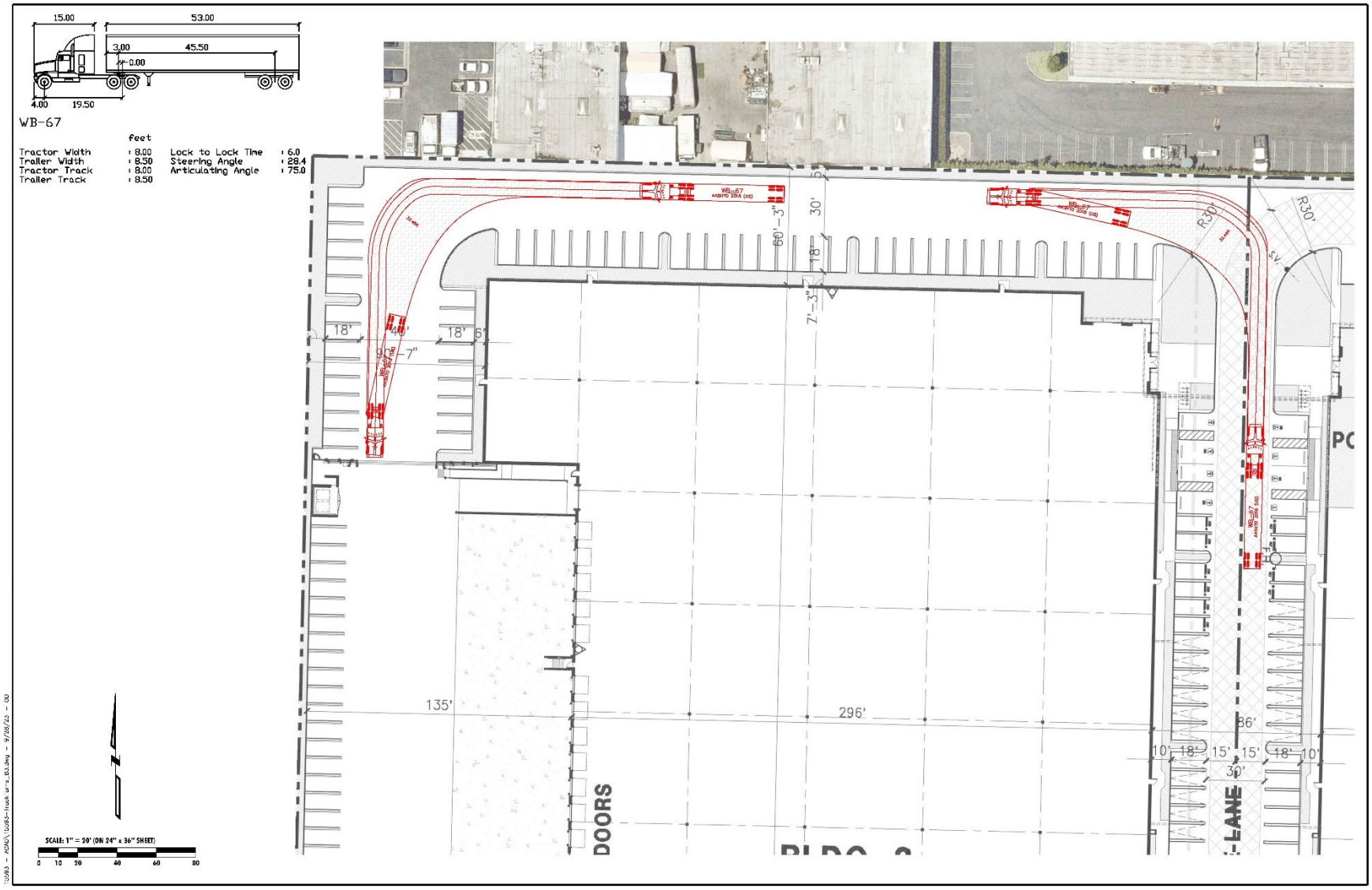


EXHIBIT 1-9: OUTBOUND ON-SITE TRUCK CIRCULATION VIA DRIVEWAY 2

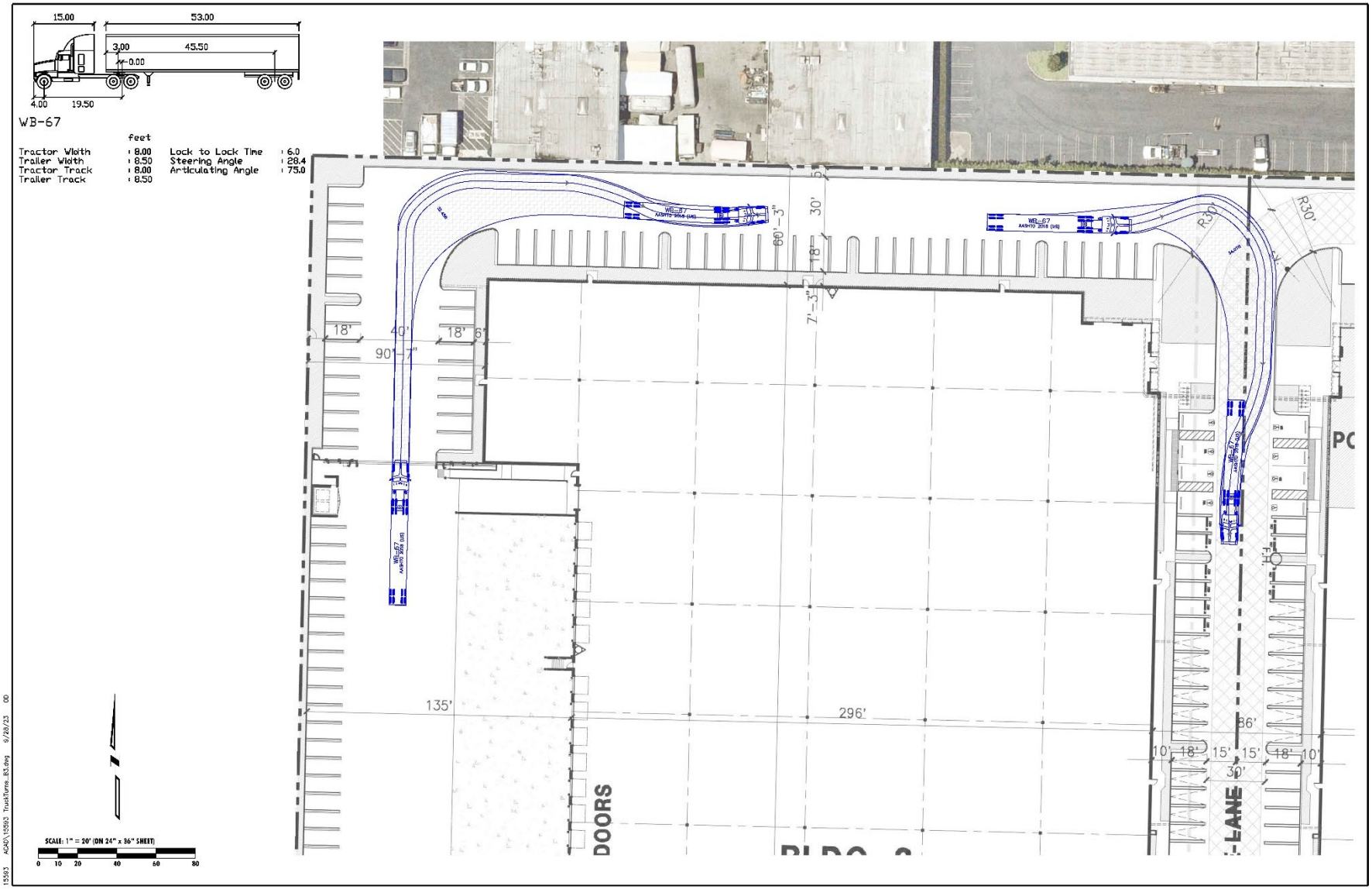
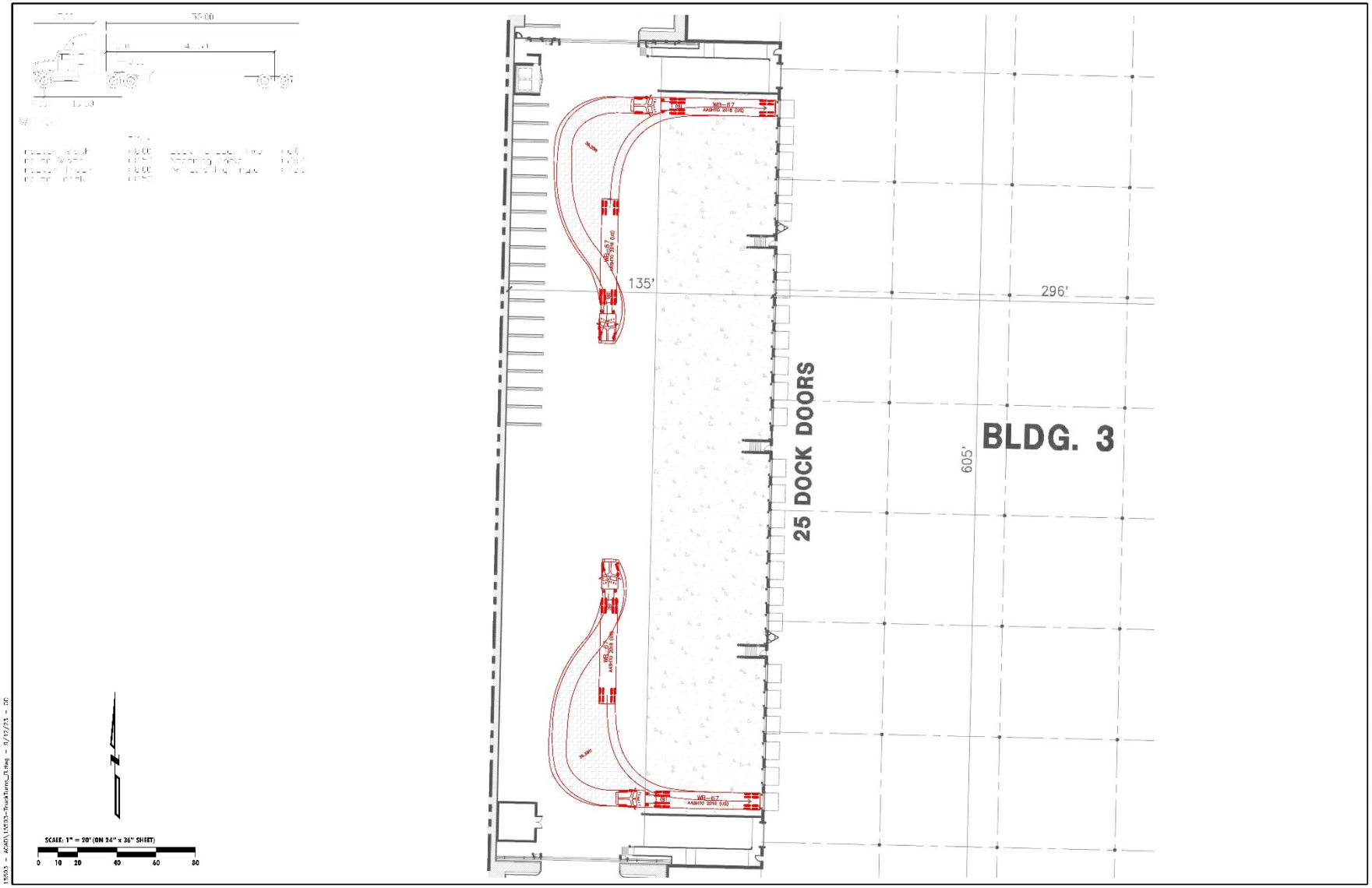


EXHIBIT 1-10: LOADING DOCK TRUCK CIRCULATION



1.8 QUEUING ANALYSIS

The traffic modeling and signal timing optimization software package SimTraffic has been utilized to assess the queues. SimTraffic is designed to model networks of signalized and unsignalized intersections, with the primary purpose of checking and fine-tuning signal operations. SimTraffic uses the input parameters from Synchro to generate random simulations. These random simulations generated by SimTraffic have been utilized to determine the 95th percentile queue lengths observed for each applicable turn lane. A SimTraffic simulation has been recorded up to 5 times, during the weekday AM and weekday PM peak hours, and has been seeded for 15-minute periods with 60-minute recording intervals.

A queuing analysis has been conducted for all signalized study area intersections under Future Year (2025) With Project traffic conditions to ensure the existing and proposed left turn storage can accommodate the 95th percentile peak hour queues. The results of the queuing analysis are shown in Table 1-3 and the worksheets for the weekday AM and PM peak hours are provided in Appendix 1.2 of this report for Future Year (2025) With Project traffic conditions. As shown on Table 1-3, there are no improvements needed to the turn lane storage lengths.

TABLE 1-3: PEAK HOUR QUEUING ANALYSIS

Intersection	Movement	Available Stacking Distance (Feet)[3]	95th Percentile Queue (Feet) AM Peak	95th Percentile Queue (Feet) PM Peak	Acceptable? [1] AM	Acceptable? [1] PM
Douglas Dr./Warland Dr. & Katella Av.	NBL	115	47	80	Yes	Yes
	SBL	90	25	52	Yes	Yes
	SBR	90	35	44	Yes	Yes
	EBL	250	75	49	Yes	Yes
	EBR	100	52	35	Yes	Yes
	WBL	250	42	66	Yes	Yes
	WBR	130	88	52	Yes	Yes
Douglas Dr./Dwy. 2 & Dwy. 1/Plaza Dr.	NBL/T/R	185	51	48	Yes	Yes
	SBL/T/R	100	0	33	Yes	Yes
	EBL/T/R	100	32	34	Yes	Yes
	WBL/T/R	165	48	57	Yes	Yes
Valley View St. & Plaza Dr./Chip Av.	NBL	190	97	34	Yes	Yes
	SBL	160	121	70	Yes	Yes
	EBL	110	26	87	Yes	Yes
	WBL	65	20	71	Yes	Yes

NB = Northbound; SB = Southbound; EB = Eastbound; WB = Westbound; L = Left; T = Through; R = Right

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 25 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

2 METHODOLOGIES

This section of the report presents the methodologies used to perform the traffic analyses summarized in this report. The methodologies described are consistent with the County's CMP Guidelines and the City's Transportation Operational Assessment (Level of Service Traffic Study) Guidelines.

2.1 LEVEL OF SERVICE

Traffic operations of roadway facilities are described using the term "Level of Service" (LOS). LOS is a qualitative description of traffic flow based on several factors, such as speed, travel time, delay, and freedom to maneuver. Six levels are typically defined ranging from LOS A, representing completely free-flow conditions, to LOS F, representing breakdown in flow resulting in stop-and-go conditions. LOS E represents operations at or near capacity, an unstable level where vehicles are operating with the minimum spacing for maintaining uniform flow.

2.2 INTERSECTION CAPACITY ANALYSIS

The definitions of LOS for interrupted traffic flow (flow restrained by the existence of traffic signals and other traffic control devices) differ slightly depending on the type of traffic control. The LOS is typically dependent on the quality of traffic flow at the intersections along a roadway. The 6th Edition Highway Capacity Manual (HCM) methodology expresses the LOS at an intersection in terms of delay time for the various intersection approaches. (4) The HCM uses different procedures depending on the type of intersection control.

2.2.1 SIGNALIZED INTERSECTIONS

Intersection Capacity Utilization (ICU)

The City of Cypress requires signalized intersections to be evaluated through ICU analysis which compares the peak hour traffic volumes to intersection capacity. Lane capacities of 1,700 vehicles per hour of green time have been assumed for the ICU calculations. 0.05 of volume to capacity (V/C) has been assumed representing 5 percent for the yellow and all-red signal indication and inherent vehicle delay between cycles with an assumed signal cycle of 100 seconds. The ICU LOS definitions based on V/C ratio are presented in Table 2-1. The Traffix software package has been utilized to evaluate the signalized intersections using the ICU methodology with the analysis parameters discussed above.

TABLE 2-1 INTERSECTION CAPACITY UTILIZATION (ICU) LOS DEFINITIONS

Level of Service	Critical Volume to Capacity Ratio
A	0.00 - 0.60
B	0.61 - 0.70
C	0.71 - 0.80
D	0.81 - 0.90
E	0.91 - 1.00
F	>1.00

Source: 2019 Orange County Congestion Management Program (CMP)

Highway Capacity Analysis (HCM)

Intersection LOS operations have also been reported based on the HCM methodology which are based on an intersection's average control delay. (4) Control delays include initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. For signalized intersections LOS is related to the average control delay per vehicle and is correlated to a LOS designation as described on Table 2-2.

The traffic modeling and signal timing optimization software package Synchro (Version 11) has been utilized to analyze signalized intersections. Synchro is a macroscopic traffic software program that is based on the signalized intersection capacity analysis as specified in the HCM. Macroscopic level models represent traffic in terms of aggregate measures for each movement at the study intersections. Equations are used to determine measures of effectiveness such as delay and queue length. The level of service and capacity analysis performed by Synchro takes into consideration optimization and coordination of signalized intersections within a network.

TABLE 2-2: SIGNALIZED INTERSECTION LOS THRESHOLDS

Description	Average Control Delay (Seconds), V/C ≤ 1.0	Level of Service, V/C ≤ 1.0[1]
Operations with very low delay occurring with favorable progression and/or short cycle length.	0 to 10.00	A
Operations with low delay occurring with good progression and/or short cycle lengths.	10.01 to 20.00	B
Operations with average delays resulting from fair progression and/or longer cycle lengths. Individual cycle failures begin to appear.	20.01 to 35.00	C
Operations with longer delays due to a combination of unfavorable progression, long cycle lengths, or high V/C ratios. Many vehicles stop and individual cycle failures are noticeable.	35.01 to 55.00	D
Operations with high delay values indicating poor progression, long cycle lengths, and high V/C ratios. Individual cycle failures are frequent occurrences. This is considered to be the limit of acceptable delay.	55.01 to 80.00	E
Operation with delays unacceptable to most drivers occurring due to over saturation, poor progression, or very long cycle lengths.	80.01 and up	F

Source: HCM, 6th Edition

[1] If V/C is greater than 1.0 then LOS is F per HCM.

A saturation flow rate of 1,700 has been utilized for all study area intersections. The peak hour traffic volumes have been adjusted using a peak hour factor (PHF) to reflect peak 15-minute volumes. Customary practice for LOS analysis is to use a peak 15-minute rate of flow. However, flow rates are typically expressed in vehicles per hour. The PHF is the relationship between the peak 15-minute flow rate and the full hourly volume (e.g., PHF = [Hourly Volume] / [4 x Peak 15-minute Flow Rate]). The use of a 15-minute PHF produces a more detailed analysis as compared to analyzing vehicles per hour. Existing PHFs have been used for all analysis scenarios. Per the HCM, PHF values over 0.95 often are indicative of high traffic volumes with capacity constraints on peak hour flows while lower PHF values are indicative of greater variability of flow during the peak hour. (4)

2.2.2 UNSIGNALIZED INTERSECTIONS

The ICU methodology is not applicable to unsignalized intersections. As such, the operations of unsignalized intersections be evaluated using the methodology described in the HCM. (4) The LOS rating is based on the weighted average control delay expressed in seconds per vehicle (see Table 2-3). At two-way or side-street stop-controlled intersections, LOS is calculated for each controlled

movement and for the left turn movement from the major street, as well as for the intersection as a whole. For approaches composed of a single lane, the delay is computed as the average of all movements in that lane. Delay for the intersection is reported for the worst individual movement at a two-way stop-controlled intersection. For all-way stop controlled intersections, LOS is computed for the intersection as a whole (average delay).

TABLE 2-3: UNSIGNALIZED INTERSECTION LOS THRESHOLDS

Description	Average Control Delay (Seconds), V/C ≤ 1.0	Level of Service, V/C ≤ 1.0[1]
Little or no delays.	0 to 10.00	A
Short traffic delays.	10.01 to 15.00	B
Average traffic delays.	15.01 to 25.00	C
Long traffic delays.	25.01 to 35.00	D
Very long traffic delays.	35.01 to 50.00	E
Extreme traffic delays with intersection capacity exceeded.	> 50.00	F

Source: HCM, 6th Edition

[1] If V/C is greater than 1.0 then LOS is F per HCM.

2.3 TRAFFIC SIGNAL WARRANT ANALYSIS METHODOLOGY

The term "signal warrants" refers to the list of established criteria used by the California Department of Transportation (Caltrans) and other public agencies to quantitatively justify or determine the potential need for installation of a traffic signal at an otherwise unsignalized intersection. This TA uses the signal warrant criteria presented in the latest edition of the Caltrans California Manual on Uniform Traffic Control Devices (CA MUTCD). (5)

The signal warrant criteria for Existing study area intersections are based upon several factors, including volume of vehicular and pedestrian traffic, frequency of accidents, and location of school areas. The CA MUTCD indicates that the installation of a traffic signal should be considered if one or more of the signal warrants are met. (5) Specifically, this TA utilizes the Peak Hour Volume-based Warrant 3 as the appropriate representative traffic signal warrant analysis for existing traffic conditions and for all future analysis scenarios for existing unsignalized intersections. Warrant 3 is appropriate to use for this TA because it provides specialized warrant criteria for intersections with rural characteristics. For the purposes of this study, the speed limit was the basis for determining whether Urban or Rural warrants were used for a given intersection. Rural warrants have been used where posted speed limits on the major roadways with unsignalized intersections that are over 40 miles per hour while urban warrants have been used where posted speeds are 40 miles per hour or below.

Traffic signal warrant analyses were performed for the following study area intersection shown on Table 2-4:

TABLE 2-4: TRAFFIC SIGNAL WARRANT ANALYSIS LOCATIONS

#	Intersection
2	Douglas Dr./Dwy. 2 & Dwy. 1/Plaza Dr.
3	Existing Driveway/McDonnell Dr. & Plaza Dr.

The Existing conditions traffic signal warrant analysis is presented in the subsequent section, Section 3 *Area Conditions* of this report. The traffic signal warrant analyses for future conditions are presented in Section 5 *Future Year (2025) Traffic Conditions* of this report. It is important to note that a signal warrant defines the minimum condition under which the installation of a traffic signal might be warranted. Meeting this threshold condition does not require that a traffic control signal be installed at a particular location, but rather, that other traffic factors and conditions be evaluated in order to determine whether the signal is truly justified. It should also be noted that signal warrants do not necessarily correlate with LOS. An intersection may satisfy a signal warrant condition and operate at or above acceptable LOS or operate below acceptable LOS and not meet a signal warrant.

2.4 MINIMUM ACCEPTABLE LEVELS OF SERVICE (LOS)

The definition of an intersection deficiency has been obtained from the City's General Plan. The City of Cypress has adopted a LOS D or better as the desired citywide operating standard for most City streets. However, given the influence of regional traffic on Valley View Street, Lincoln Avenue, and Katella Avenue, which are beyond the control of the City of Cypress, LOS E or better has been adopted as the minimum operating LOS for street segments and intersections on the aforementioned arterials due to the high volume of traffic carried on these roadways.

2.5 DEFICIENCY CRITERIA

For the intersections that lie within the City of Cypress, determination of whether the Project has an adverse effect on intersection operations will be based on a comparison of without and with project levels of service.

For HCM Analysis: For signalized intersections, the traffic operations deficiency shall be determined in accordance with Table 2-5 below:

TABLE 2-5: HCM SIGNALIZED INTERSECTION DEFICIENCY CRITERIA

With Project LOS	Project-Related Increase in Delay (in seconds)
C or better	> 6.0 seconds
D	> 4.0 seconds
E, F	> 2.0 seconds

To determine whether a project's added traffic would result in a deficiency at a study area unsignalized intersection in accordance with the City's HCM methodology, the following criteria shall be applied:

a) Worsens the LOS at an unsignalized intersection from LOS D or better to LOS E or F;

b) Causes an increase in the delay equal to or more than three (3.0) seconds at an unsignalized intersection that operates at LOS E or F with project.

For ICU Analysis: a deficiency at both signalized study intersections will be determined in accordance with Table 2-6:

TABLE 2-6: ICU INTERSECTION DEFICIENCY CRITERIA

Without Project LOS	With Project Volume/Capacity (V/C) Ratio	With Project Level of Service
D	>0.900 or greater	LOS E or F
Without Project LOS	With Project Volume/Capacity (V/C) Ratio	Project-Related increase in V/C
E, F	>0.900 or greater	Equal to or greater than 0.03

Improvements: Any decrease beyond the minimum acceptable LOS due to the addition of project traffic requires alternative corrective measures to return the intersection to an acceptable LOS. For intersections operating below the minimum acceptable LOS prior to the addition of project traffic, and the LOS would be worsened with the addition of project traffic, corrective measures should be identified, if feasible, to return to "without project" condition LOS or V/C (volume/capacity ratio), whichever is greater. Alternative corrective measures to roadway widening which may include the reduction of project traffic volumes through application of signal system upgrades, phasing changes, synchronization, and/or project design improvements which are expected to improve capacity and/or efficiency within the transportation network (e.g., changes to a project's site access or internal circulation scheme) shall be identified with concurrence from the City Traffic Engineer.

3 AREA CONDITIONS

This section provides a summary of the existing circulation network, the City of Cypress General Plan Circulation Network, and a review of existing peak hour intersection operations and traffic signal warrant analyses.

3.1 EXISTING CIRCULATION NETWORK

Pursuant to the scoping agreement with City of Cypress staff (Appendix 1.1), the study area includes a total of 4 existing and future intersections as shown previously on Exhibit 1-3, where the Project is anticipated to contribute 25 or more peak hour trips or were added at the City's request during the scoping process. Exhibit 3-1 illustrates the study area intersections located near the proposed Project and identifies the number of through traffic lanes for existing roadways and intersection traffic controls.

3.2 CITY OF CYPRESS GENERAL PLAN CIRCULATION ELEMENT

As noted previously, the Project site is located within the City of Cypress. The roadway classifications and planned (ultimate) roadway cross-sections of the major roadways within the study area, as identified on City of Cypress General Plan Circulation Element, are described subsequently. Exhibit 3-2 shows the City of Cypress General Plan Circulation Element and Exhibit 3-3 illustrates the City of Cypress General Plan roadway cross-sections.

Major roadways are six-lane roadways and typically include a raised median. These roadways typically have a 120-foot right-of-way and a 104-foot curb-to-curb measurement. These roadways typically direct traffic through major development areas. The following study area roadways within the City are classified as a Major:

- Katella Avenue
- Valley View Street

Plaza Drive/Douglas Drive is not a classified General Plan roadway.

EXHIBIT 3-1: EXISTING NUMBER OF THROUGH LANES AND INTERSECTION CONTROLS

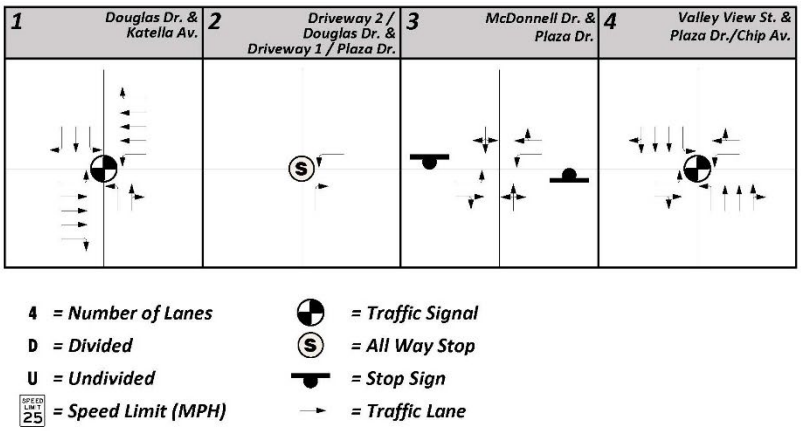
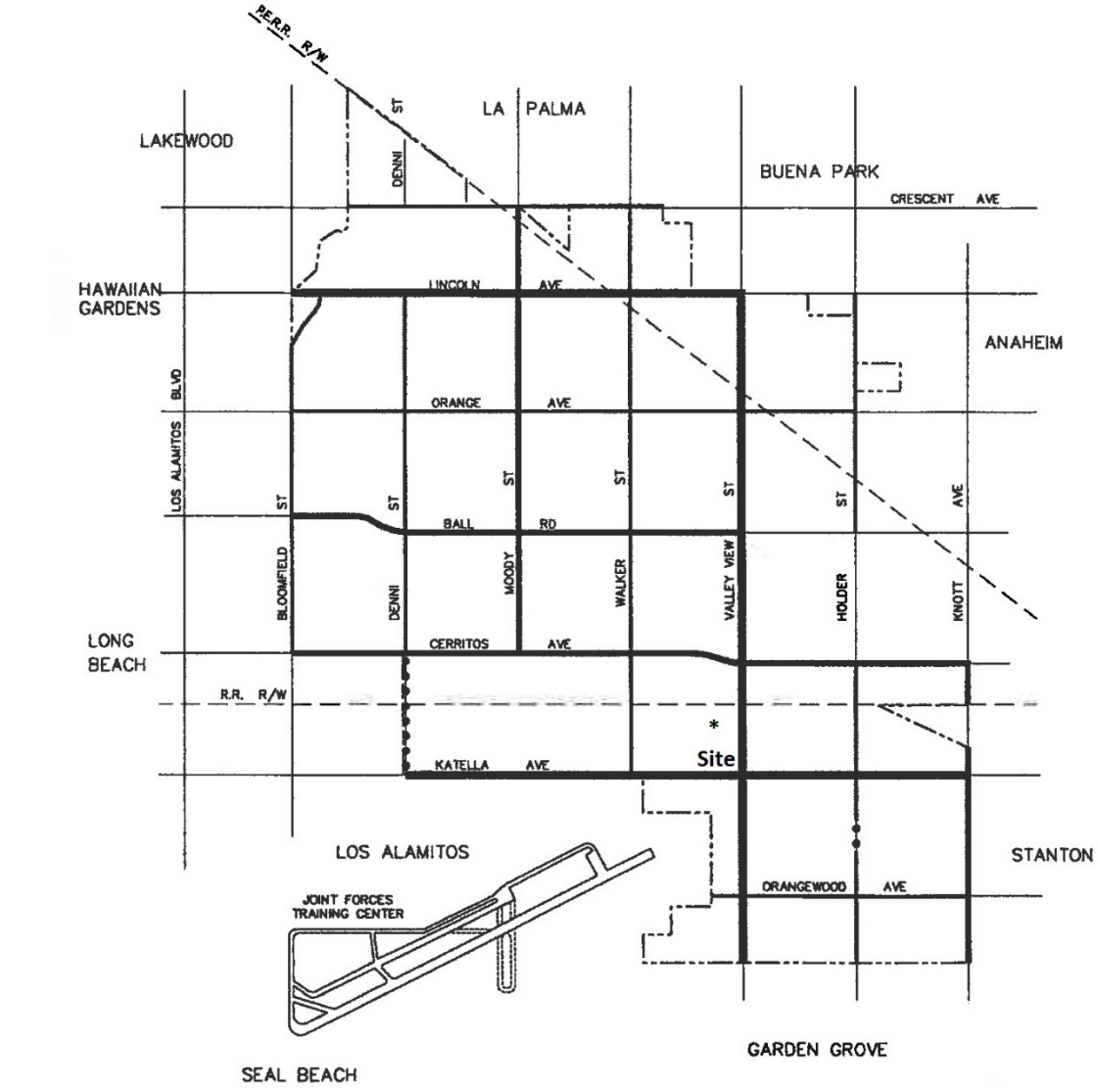


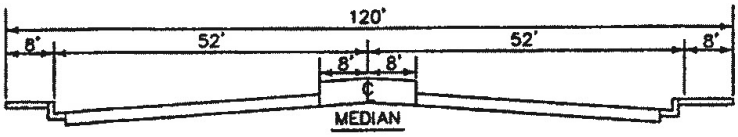
EXHIBIT 3-2: CITY OF CYPRESS GENERAL PLAN CIRCULATION ELEMENT



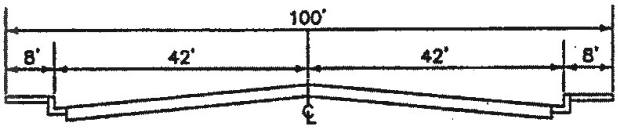
Source: Kimley-Horn and Associates.

EXHIBIT 3-3: CITY OF CYPRESS GENERAL PLAN ROADWAY CROSS-SECTIONS

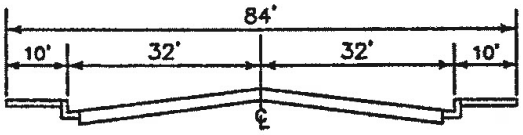
MAJOR STREET



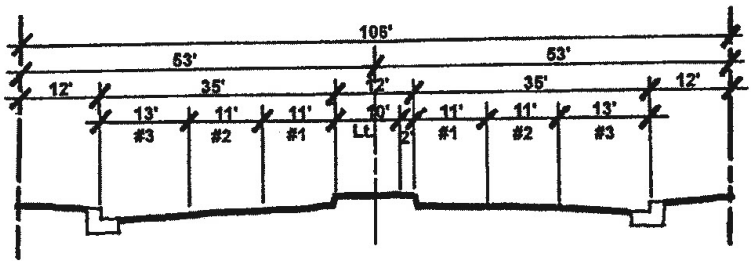
PRIMARY STREET



SECONDARY STREET



LINCOLN AVENUE TYPICAL STREET SECTION



Source: Kimley-Horn and Associates.

N

CITY OF CYPRESS GENERAL PLAN
Standard Street Sections

RBF PLANNING ■ DESIGN ■ CONSTRUCTION

Exhibit CIR-6

3.3 BICYCLE & PEDESTRIAN FACILITIES

The City's bike network is shown on Exhibit 3-4. As shown on Exhibit 3-4, both Katella Avenue and Valley View Street currently accommodate off-street bike paths (there are no on-street bike lanes). Exhibit 3-5 illustrates the existing crosswalks and sidewalks throughout the study area. As shown on Exhibit 3-5, there are pedestrian facilities in place in the vicinity of the Project site along Douglas Drive, Katella Avenue, and Valley View Street. There is a 10-foot sidewalk along the west side of Douglas Drive between the proposed Project down to Katella Avenue to the south. Once completed by the adjacent development to the east, there will be a 5-foot sidewalk along the north side of Plaza Drive providing pedestrian connectivity between the proposed Project and approximately 450-feet west of Valley View Street. The signalized intersection of Douglas Drive at Katella Avenue has striped crosswalks on all approaches with push buttons. All four corners of the intersection of Douglas Drive at Katella Avenue have tactile warning strips and curb access ramps. The intersection of Valley View Street at Plaza Drive/Chip Avenue does not have a marked crosswalk across the north leg of the intersection. All other approaches include striped crosswalks with the appropriate pedestrian push buttons, tactile warning strip, and curb access ramps.

3.4 TRANSIT SERVICE

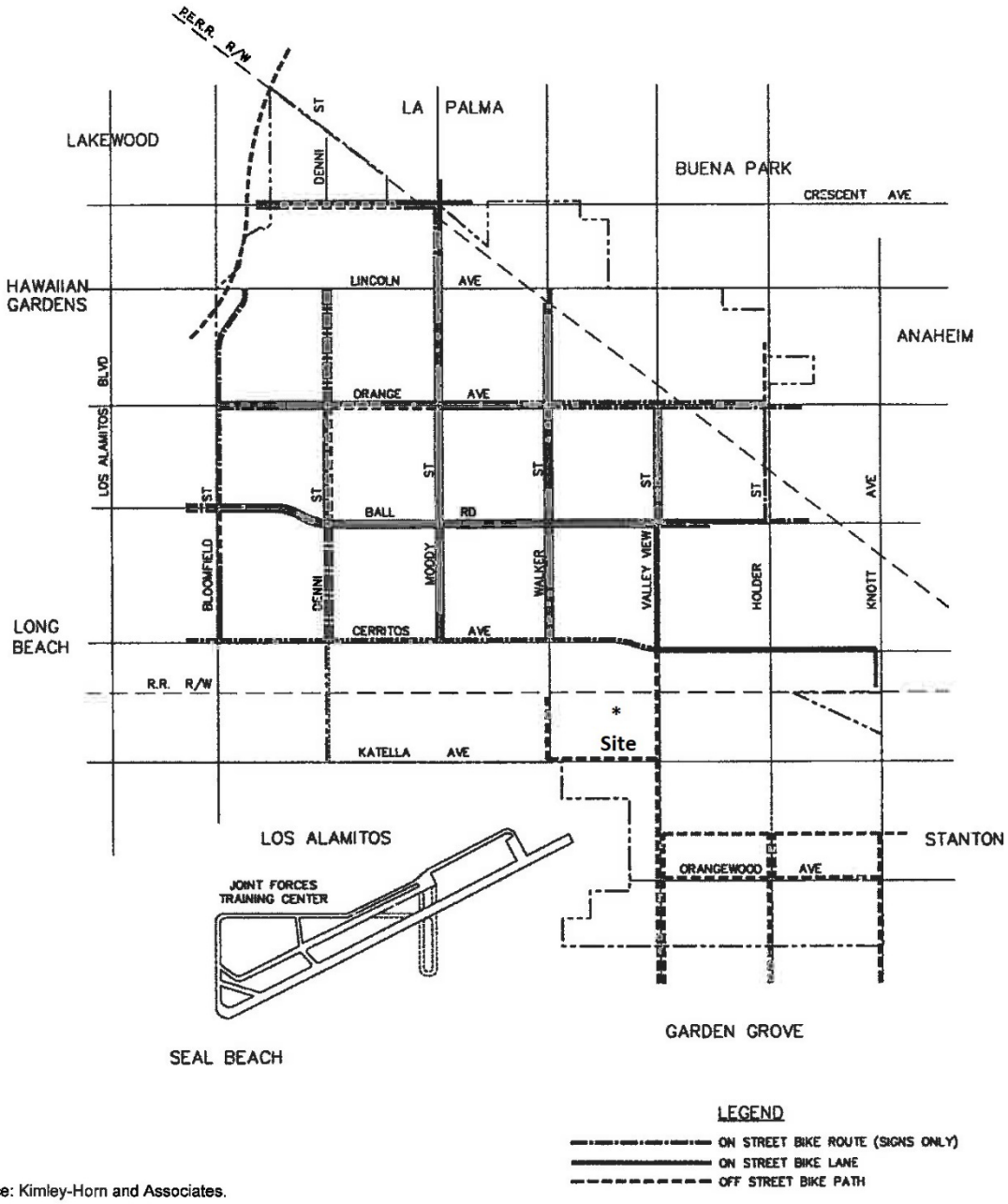
The study area is currently served by Orange County Transit Authority (OCTA) with bus service along Katella Avenue and Valley View Street. OCTA Route 50 runs along Katella Avenue and currently has existing bus stops just east of Douglas Drive and west of Valley View Street along the north side and operates seven days a week. Route 50 runs between Long Beach and Orange (including major stops at the Anaheim Regional Transportation Terminal Center and the VA Hospital in Long Beach). Buses stop approximately every 20-25 minutes during the morning and evening peak commute hours. OCTA Route 123 runs along Valley View Street and there are existing bus stops north of Plaza Drive and only operates Monday through Friday. Route 123 runs between Anaheim and Huntington Beach (including major stops at the Buena Park Metrolink Station, Fullerton Transportation Center, Anaheim Canyon Metrolink Station, and Goldenwest Transportation Center/Park and Ride). Buses stop approximately every hour (60 minutes) during the morning and evening commute hours (operational between 4:00 AM and 10:00 PM).

The existing transit stops are in close proximity to the Project site and could serve the site in the future. The transit services are illustrated on Exhibit 3-6. Transit service is reviewed and updated by OCTA periodically to address ridership, budget, and community demand needs. Changes in land use can affect these periodic adjustments which may lead to either enhanced or reduced service where appropriate.

3.5 TRUCK ROUTES

The City's truck routes are shown on Exhibit 3-7. Both Katella Avenue and Valley View Street adjacent to the Project are identified as City truck routes. These truck routes serve both the proposed Project and future cumulative development projects throughout the study area.

EXHIBIT 3-4: CITY OF CYPRESS GENERAL PLAN BIKE NETWORK



Source: Kimley-Horn and Associates.

N

RBF CONSULTING PLANNING ■ DESIGN ■ CONSTRUCTION

CITY OF CYPRESS GENERAL PLAN
Existing Bikeways

Exhibit CIR-4

EXHIBIT 3-5: EXISTING PEDESTRIAN FACILITIES

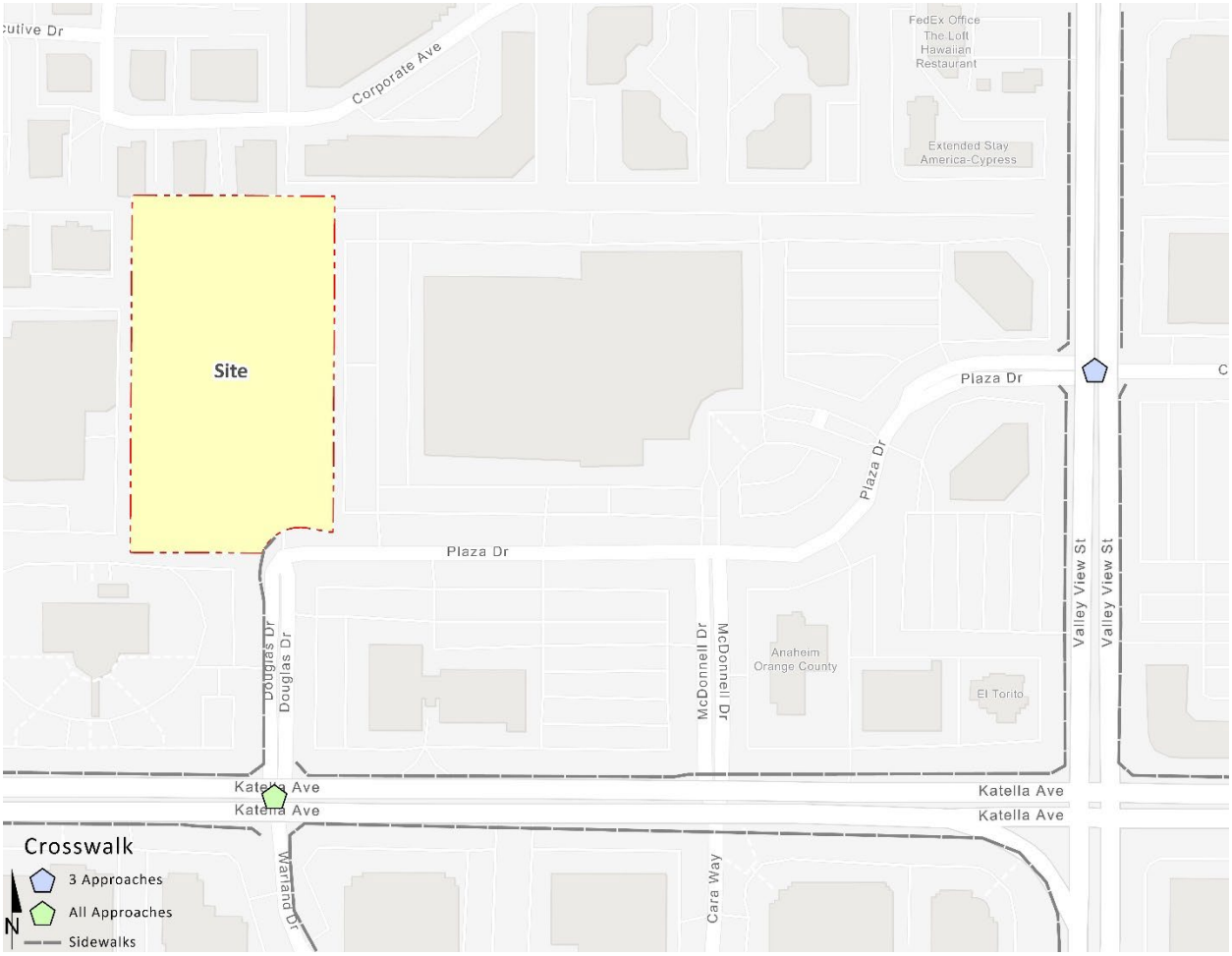


EXHIBIT 3-6: EXISTING TRANSIT ROUTES

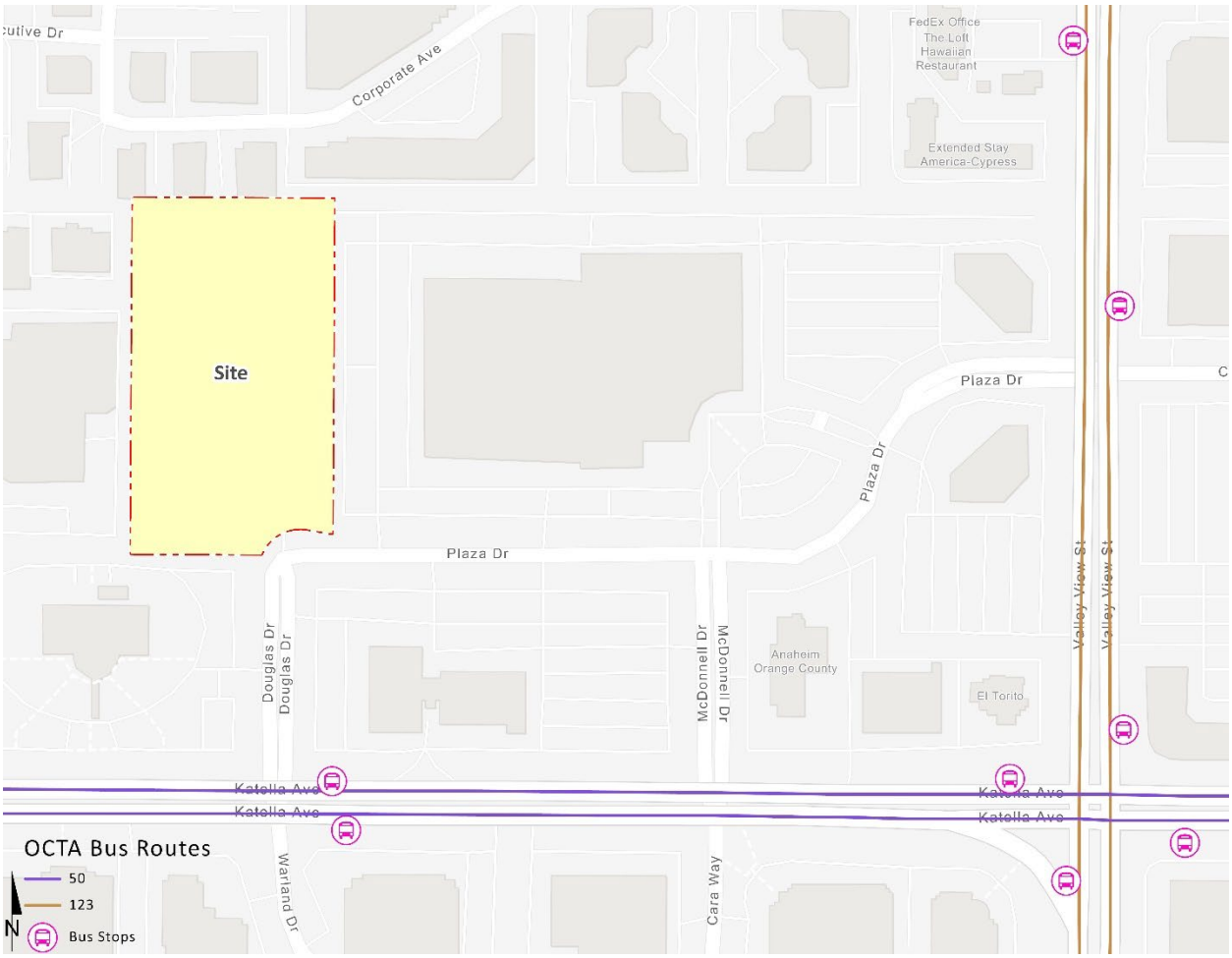
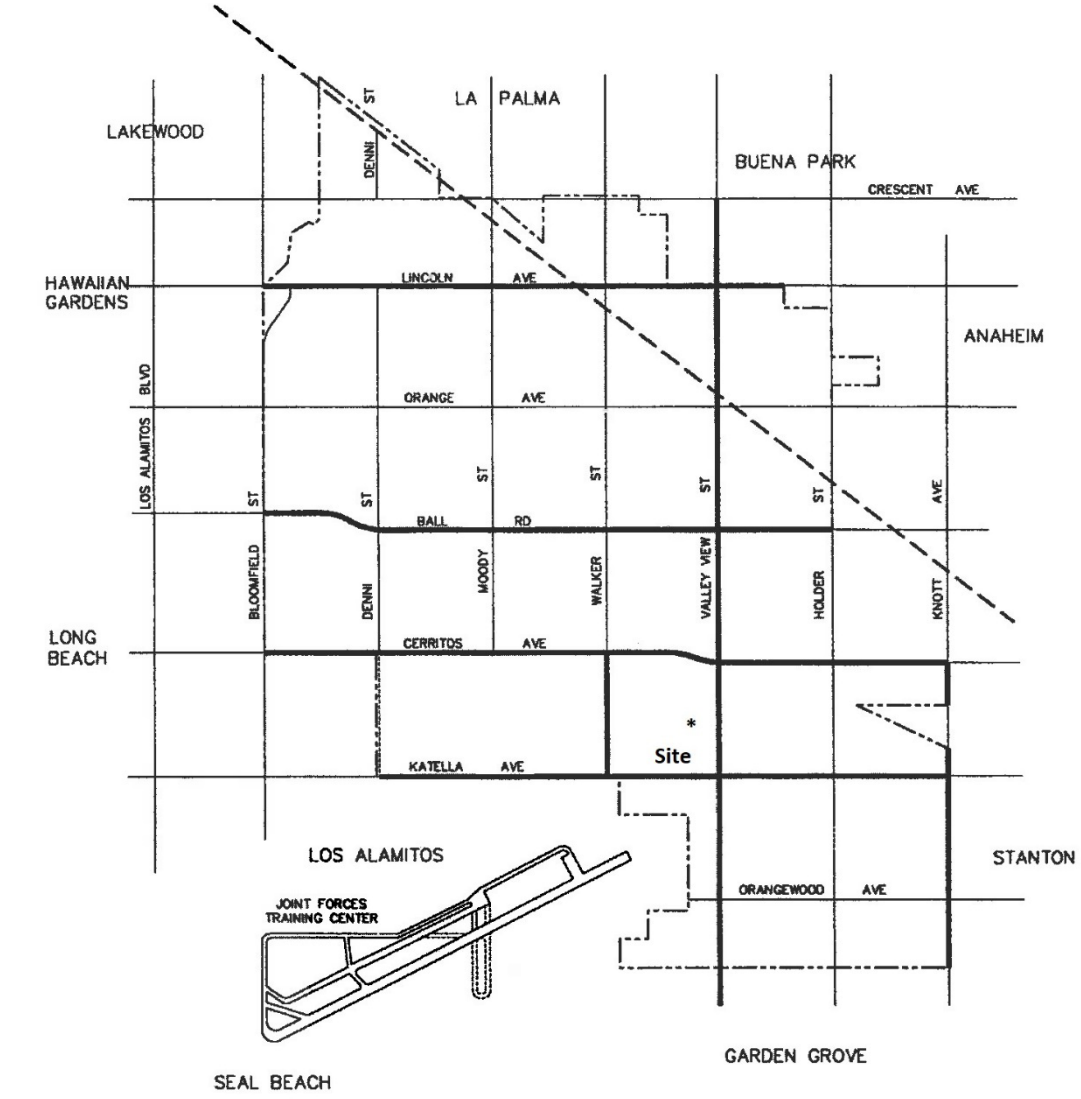


EXHIBIT 3-7: CITY OF CYPRESS TRUCK ROUTES



Source: Kimley-Horn and Associates.

N

CITY OF CYPRESS GENERAL PLAN

Existing Truck Routes and Rail Lines

RBF CONSULTING — PLANNING ■ DESIGN ■ CONSTRUCTION

Exhibit CIR-5

3.6 EXISTING (2023) TRAFFIC COUNTS

The intersection LOS analysis is based on the traffic volumes observed during the peak hour conditions using traffic count data collected in August 2022 when local schools were in session and operating on normal bell schedules. The following peak hours were selected for analysis:

- Weekday AM Peak Hour (peak hour between 7:00 AM and 9:00 AM)
- Weekday PM Peak Hour (peak hour between 4:00 PM and 6:00 PM)

There were no observations made in the field that would indicate atypical traffic conditions on the count dates, such as construction activity or detour routes and near-by schools were in session and operating on normal schedules. The 2022 peak hour volumes have been adjusted to increase turning movements into low occupancy office uses in the surrounding area by 30 percent. Lastly, the volumes were then increased by an additional two percent for all movements in order to adjust the 2022 traffic counts to 2023. The raw manual peak hour turning movement traffic count data sheets are included in Appendix 3.1. In addition, volume worksheets have been included identifying the adjusted 2023 volumes along with the passenger car equivalent (PCE) calculations for all analysis scenarios.

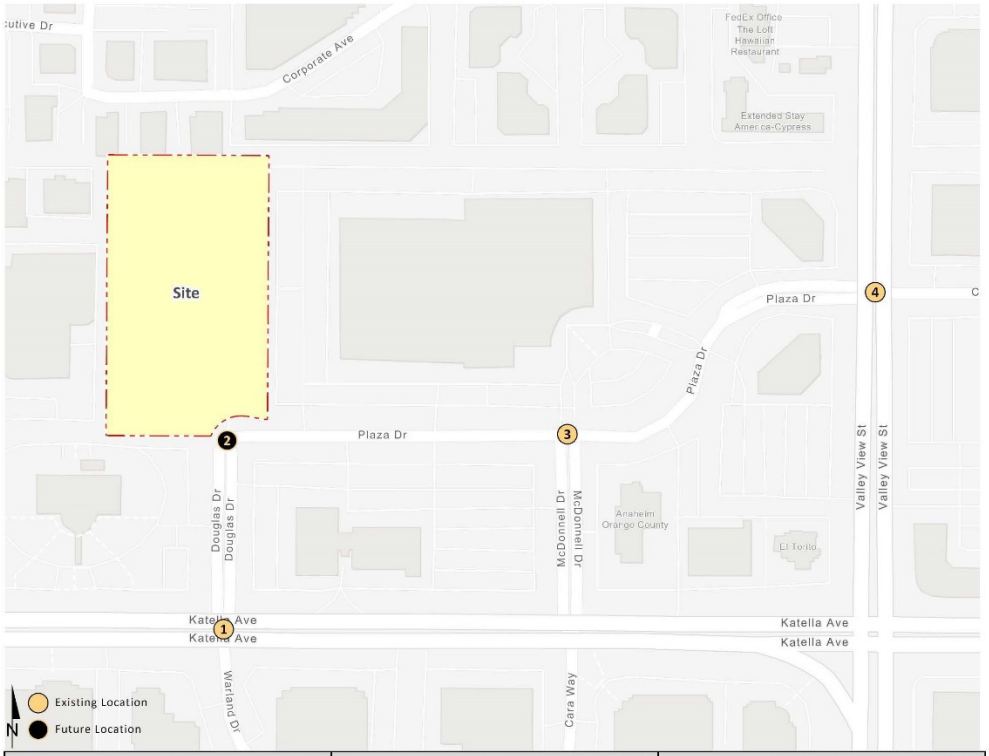
Existing weekday average daily traffic (ADT) volumes on arterial highways throughout the study area are shown on Exhibit 3-8. Existing ADT volumes were based upon factored intersection peak hour counts collected by Urban Crossroads, Inc. using the following formula for each intersection leg:

Weekday PM Peak Hour (Approach Volume + Exit Volume) x 11.3 = Leg Volume

A comparison of the PM peak hour and daily traffic volumes of various roadway segments within the study area indicated that the peak-to-daily relationship is approximately 8.9 percent. As such, the above equation utilizing a factor of 11.3 estimates the ADT volumes on the study area roadway segments assuming a peak-to-daily relationship of approximately 8.9 percent (i.e., 1/0.089 = 11.3) and was assumed to sufficiently estimate ADT volumes for planning-level analyses. This factor is consistent with that used for other traffic studies within the study area. Existing weekday AM and weekday PM peak hour intersection volumes are shown on Exhibit 3-8.

Volumes reported on the exhibits are expressed in passenger car equivalent (PCE) volumes as the intersection operations analysis utilizes PCE volumes. Note that only the intersection turning movement volumes are expressed in PCE and ADTs are presented as actual vehicles as used in other technical studies. PCEs allow the typical "real-world" mix of vehicle types to be represented as a single, standardized unit, such as the passenger car, to be used for the purposes of capacity and level of service analyses.

EXHIBIT 3-8: EXISTING (2023) TRAFFIC VOLUMES (PCE)



1 Douglas Dr./Warland Dr. & Katella Av.

1,000					39,950
	15(47)	1(2)	2(26)	↰ 34(6)	
				← 1782(1608)	
	↲	↓	↳	↰ 12(9)	
	27(11)	↱		↰	↑	↱
	1702(1963)	→		26(83)	2(1)	5(7)
	72(32)	↴			
42,950					1,450

2 Douglas Dr./Dwy. 2 & Dwy. 1/Plaza Dr.

					1,350
				↰ 53(100)	
					↱
					21(24)
					1,350

3 McDonnell Dr. & Plaza Dr.

Nominal					800
	0(3)			↰ 4(0)	
				← 104(80)	
	↓			↰ 8(11)	
	23(86)	→		↰	↑	↱
	0(2)	↴		19(5)	2(0)	77(9)
1,900					350

4 Valley View St. & Plaza Dr./Chip Av.

42,050					6,750
	154(23)	1551(1503)	254(52)	↰ 39(355)	
				← 0(30)	
	↲	↓	↳	↰ 12(162)	
	9(168)	↱		↰	↑	↱
	9(0)	→		22(4)	1516(1967)	181(12)
	15(61)	↴			
3,200					41,150

##(##) AM(PM) Peak Hour Intersection Volumes

Average Daily Trips

3.7 INTERSECTION OPERATIONS ANALYSIS

Existing peak hour traffic operations have been evaluated for the study area intersections based on the analysis methodologies presented in Section 2.2 *Intersection Capacity Analysis* of this report. The intersection operations analysis results are summarized on Table 3-1, which indicates that all existing study area intersections are currently operating at acceptable LOS during the peak hours. The intersection operations analysis worksheets are included in Appendix 3.2 of this TA.

TABLE 3-1: INTERSECTION ANALYSIS FOR EXISTING (2023) CONDITIONS

#	Intersection	Traffic Control[3]	Delay[1] (secs.) AM	Delay[1] (secs.) PM	Level of Service AM	Level of Service PM	ICU[2] (V/C) AM	ICU[2] (V/C) PM	Level of Service AM	Level of Service PM
1	Douglas Dr./Warland Dr. & Katella Av.	TS	5.4	8.2	A	A	0.44	0.52	A	A
2	Douglas Dr./Dwy. 2 & Dwy. 1/Plaza Dr.	AWS	7.2	7.7	A	A	--	--	--	--
3	Existing Driveway/McDonnell Dr. & Plaza Dr.	CSS	9.2	10.8	A	B	--	--	--	--
4	Valley View St. & Plaza Dr./Chip Av.	TS	15.4	35.7	B	D	0.56	0.79	A	C

1 Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown. HCM delay reported in seconds.

2 ICU reported as a volume-to-capacity ratio and for signalized intersections only. ICU not applicable to unsignalized inspections.

3 TS = Traffic Signal; AWS = All-Way Stop; CSS = Cross-Street Stop

3.8 TRAFFIC SIGNAL WARRANTS ANALYSIS

Traffic signal warrants for Existing traffic conditions are based on existing peak hour intersection turning volumes. There are no unsignalized study area intersections that currently warrant a traffic signal for Existing traffic conditions. Existing conditions traffic signal warrant analysis worksheets are provided in Appendix 3.3.

4 PROJECTED FUTURE TRAFFIC

This section presents the traffic volumes estimated to be generated by the Project, as well as the Project's trip assignment onto the study area roadway network. The Project includes the development of a 191,394 square foot warehouse building. The TA evaluates 191,394 square feet of high-cube cold storage warehouse use. The proposed Project will replace an existing 150,626 square foot office building. The anticipated Opening Year for the proposed Project is 2025. Access to the site will be accommodated via two driveways at Plaza Drive and Douglas Drive.

4.1 PROJECT TRIP GENERATION

Trip generation represents the amount of traffic which is both attracted to and produced by a development.

4.1.1 EXISTING USE

The proposed Project will replace an existing 150,626 square foot office building. At the time traffic counts were conducted on August 30, 2022, the office building was 41% occupied, however, in an effort to recognize that leased tenants may have been underutilizing the office space, the building has been assumed to be 25% occupied for the purposes of the trip generation comparison. In an effort to understand the existing traffic associated with the current uses, the trip generation rates used for this analysis are based upon information collected by the ITE as provided in their Trip Generation Manual (11th Edition, 2021) for the existing general office (ITE Land Use Code 710) use (see Table 4-1).

General Office (ITE Land Use Code 710) has been used to calculate the trip generation for the existing 37,657 square feet of occupied office use (or 25% of 150,626 square feet). The trip generation summary illustrating daily, and peak hour trip generation estimates for the existing uses are also shown on Table 4-1. As shown on Table 4-1, the existing use generates a total of 408 two-way trips per day with 57 AM peak hour trips and 54 PM peak hour trips.

TABLE 4-1: EXISTING TRIP GENERATION SUMMARY

Land Use[1]	Units[2]	ITE LU Code	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
General Office (based on average rates)	TSF	710	1.34	0.18	1.52	0.24	1.20	1.44	10.84

[1] Trip Generation Source: Institute of Transportation Engineers (ITE), Trip Generation Manual, Eleventh Edition (2021).

[2] TSF = thousand square feet

Land Use	Quantity	Units[1]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
General Office[2]	37.657	TSF	50	7	57	9	45	54	408

[1] TSF = Thousand Square Feet

[2] 25% of the 150,626 square foot office building was occupied in August 2022 (or 37,657 square feet).

4.1.2 PROPOSED PROJECT

The proposed Project consists of a single 191,394 square foot warehouse building. In order to develop the traffic characteristics of the proposed project, trip-generation statistics published in the ITE Trip Generation Manual (11th Edition, 2021) was used for the proposed Project. Table 4-2 summarizes the trip generation rates. For purposes of this TA, the following land use and vehicle mix has been utilized:

- ITE land use code 157 (High-Cube Cold Storage Warehouse) has been used to derive site specific trip generation estimates for up to 191,394 square feet. High-cube cold storage warehouses include warehouses characterized by the storage and/or consolidation of manufactured goods (and to a lesser extent, raw materials) prior to their distribution to retail locations or other warehouses. High-cube cold storage warehouses are facilities typified by temperature-controlled environments for frozen food or other perishable products. The High-Cube Cold Storage Warehouse vehicle mix (passenger cars versus trucks) has been obtained from the ITE's Trip Generation Manual. The truck percentages were further broken down by axle type per the following South Coast Air Quality Management District (SCAQMD) recommended truck mix: 2-Axle = 34.7%; 3-Axle = 11.0%; 4+-Axle = 54.3%.

TABLE 4-2: TRIP GENERATION RATES

Land Use[1]	Units[2]	ITE LU Code	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Actual Vehicle Trip Generation Rates									
High-Cube Cold Storage Warehouse[3]	TSF	157	0.085	0.025	0.110	0.034	0.086	0.120	2.120
Passenger Cars (AM-72.7%, PM-75.0%, Daily-64.6%)			0.076	0.004	0.080	0.019	0.071	0.090	1.370
2-Axle Trucks (AM-9.5%, PM-8.7%, Daily-12.3%)			0.003	0.007	0.010	0.005	0.005	0.010	0.260
3-Axle Trucks (AM-3.0%, PM-2.8%, Daily-3.9%)			0.001	0.002	0.003	0.002	0.001	0.003	0.083
4+-Axle Trucks (AM-14.8%, PM-13.6%, Daily-19.2%)			0.005	0.011	0.016	0.008	0.008	0.016	0.407
Passenger Car Equivalent (PCE) Trip Generation Rates									
High-Cube Cold Storage Warehouse[3]	TSF	157	0.085	0.025	0.110	0.034	0.086	0.120	2.120
Passenger Cars			0.076	0.004	0.080	0.019	0.071	0.090	1.370
2-Axle Trucks (PCE = 1.5)			0.005	0.011	0.016	0.008	0.008	0.016	0.390
3-Axle Trucks (PCE = 2.0)			0.002	0.005	0.007	0.004	0.003	0.007	0.165
4+-Axle Trucks (PCE = 3.0)			0.015	0.034	0.049	0.024	0.025	0.049	1.222

[1] Trip Generation & Vehicle Mix Source: Institute of Transportation Engineers (ITE), Trip Generation Manual, Eleventh Edition (2021).

[2] TSF = thousand square feet

[3] Truck Mix: South Coast Air Quality Management District's (SCAQMD) recommended truck mix, by axle type.
Normalized % - With Cold Storage: 34.7% 2-Axle trucks, 11.0% 3-Axle trucks, 54.3% 4-Axle trucks.

PCE factors were applied to the trip generation rates for heavy trucks (2-axles, 3-axles, and 4+-axles). PCEs allow the typical "real-world" mix of vehicle types to be represented as a single, standardized unit, such as the passenger car, to be used for the purposes of capacity and LOS analyses. The PCE factors are consistent with those used on other near-by projects.

The trip generation summary illustrating daily, and peak hour trip generation estimates for the proposed Project are summarized on Table 4-3 in actual vehicles. The proposed Project is anticipated to generate 406 two-way trips per day with 21 AM peak hour trips and 24 PM peak hour trips (actual vehicles). Intersection operations analysis for a truck-intensive project would be required to utilize the PCE trip generation consistent with the City's Guidelines. As such, the Project's trip generation in PCE is also shown on Table 4-3. The Project is anticipated to generate 604 two-way PCE trips per day with 29 PCE AM peak hour trips and 32 PCE PM peak hour trips.

TABLE 4-3: PROJECT TRIP GENERATION SUMMARY

Land Use	Quantity	Units[1]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Actual Vehicles:									
High-Cube Cold Storage Warehouse	191.394	TSF							
Passenger Cars:			15	1	16	4	14	18	262
2-axle Trucks:			1	1	2	1	1	2	50
3-axle Trucks:			0	0	0	0	0	0	16
4+-axle Trucks:			1	2	3	2	2	4	78
Total Truck Trips (Actual Vehicles):			2	3	5	3	3	6	144
Total Trips (Actual Vehicles)[2]			**17**	**4**	**21**	**7**	**17**	**24**	**406**
Passenger Car Equivalent (PCE):									
High-Cube Cold Storage Warehouse	191.394	TSF							
Passenger Cars:			15	1	16	4	14	18	262
2-axle Trucks:			1	2	3	1	2	3	76
3-axle Trucks:			0	1	1	1	0	1	32
4+-axle Trucks:			3	6	9	5	5	10	234
Total Truck Trips (PCE):			4	9	13	7	7	14	342
Total Trips (PCE)[2]			**19**	**10**	**29**	**11**	**21**	**32**	**604**

Note: Due to rounding, some of the numbers reflected in the table to not reflect actual calculated amounts.

[1] TSF = Thousand Square Feet

[2] Total = Passenger Cars + Trucks

4.1.3 TRIP GENERATION COMPARISON

Table 4-4 shows the trip generation comparison between the existing and proposed use. It is our understanding that the existing warehouse/office building is currently vacant and generates only incidental vehicle trips, however, should the existing site be fully occupied, then it is anticipated there would be a net reduction in trips. The resulting net new trips are identified at the bottom of Table 4-4. The trip generation comparison is based on PCE as the existing and proposed uses are truck-intensive uses (any intersection operations analysis would use the PCE-based trip generation). As shown on Table 4-4, the Project is anticipated to generate a net increase of 196 two-way trips per day with a net reduction of 28 AM peak hour trips and net reduction of 22 PM peak hour trips (in PCE). For the purposes of the TA, the trip generation shown on Table 4-3 will be utilized for the intersection operations analyses (no credit for existing use).

TABLE 4-4: TRIP GENERATION COMPARISON

Land Use	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Proposed Project							
Passenger Cars:	15	1	16	4	14	18	262
Total Truck Trips (PCE):	4	9	13	7	7	14	342
Total Trips (PCE)	**19**	**10**	**29**	**11**	**21**	**32**	**604**
Existing Use: General Office							
Passenger Cars:	50	7	57	9	45	54	408
Total Truck Trips (PCE):	0	0	0	0	0	0	0
Total Trips (PCE)	**50**	**7**	**57**	**9**	**45**	**54**	**408**
Variance							
Passenger Cars:	-35	-6	-41	-5	-31	-36	-146
Total Truck Trips (PCE):	4	9	13	7	7	14	342
Total Trips (PCE)	**-31**	**3**	**-28**	**2**	**-24**	**-22**	**196**

4.2 PROJECT TRIP DISTRIBUTION

The Project trip distribution represents the directional orientation of traffic to and from the Project site. Trip distribution is the process of identifying the probable destinations, directions or traffic routes that will be utilized by Project traffic. The potential interaction between the planned land uses and surrounding regional access routes are considered, to identify the route where the Project traffic would distribute. The trip distribution pattern of passenger cars is heavily influenced by the geographical location of the site, the location of surrounding land uses, and the proximity to the regional freeway system.

The trip distribution pattern for truck traffic is also influenced by the local truck routes. Both Valley View Street and Katella Avenue are truck routes within the City of Cypress. Given the differences between the vehicle types, separate trip distributions were generated for both passenger cars and truck trips. Exhibits 4-1 and 4-2 show the Project truck and passenger car trip distribution patterns, respectively. Distributions of passenger cars and trucks have been determined based on traffic count data.

EXHIBIT 4-1: PROJECT (TRUCK) TRIP DISTRIBUTION

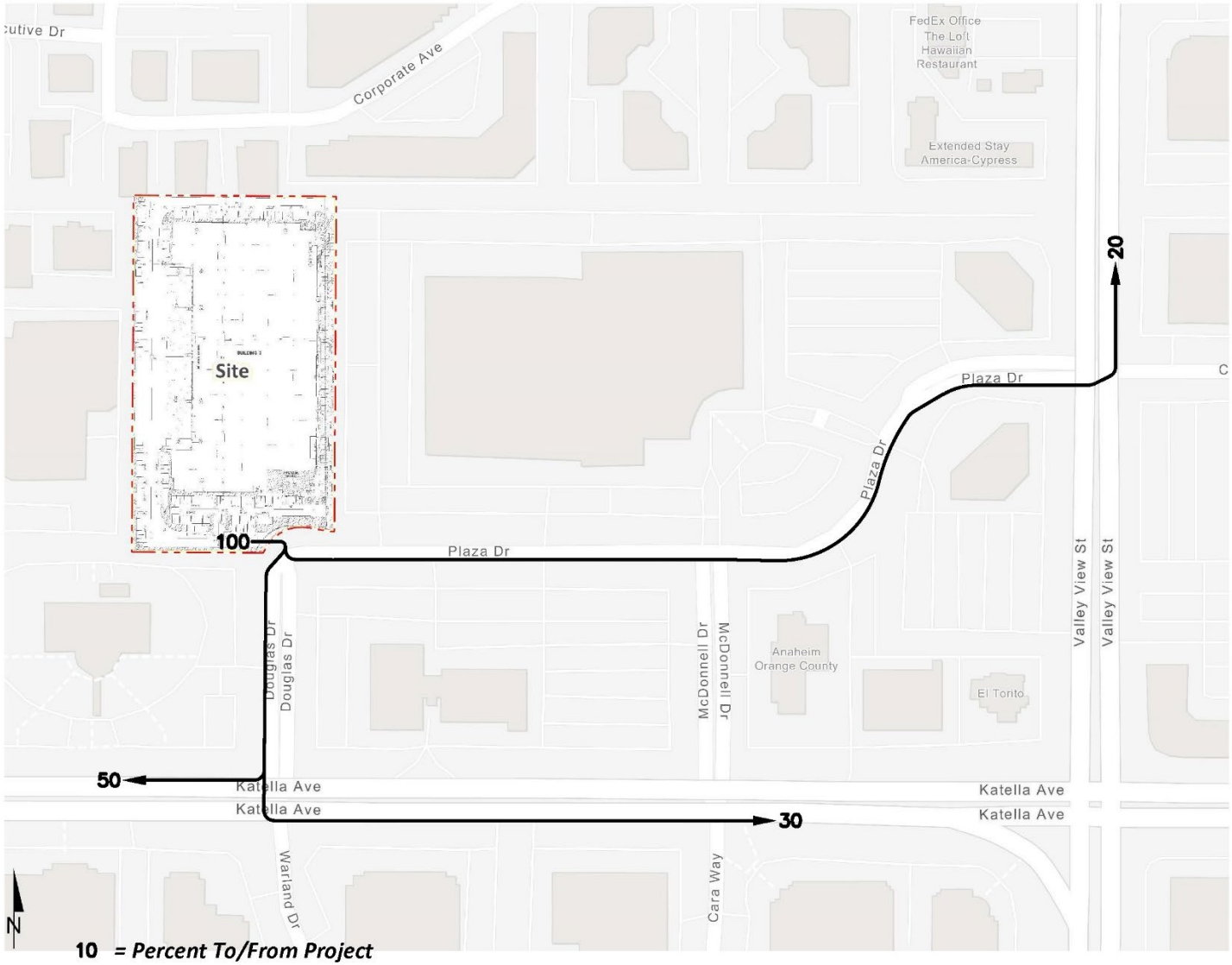
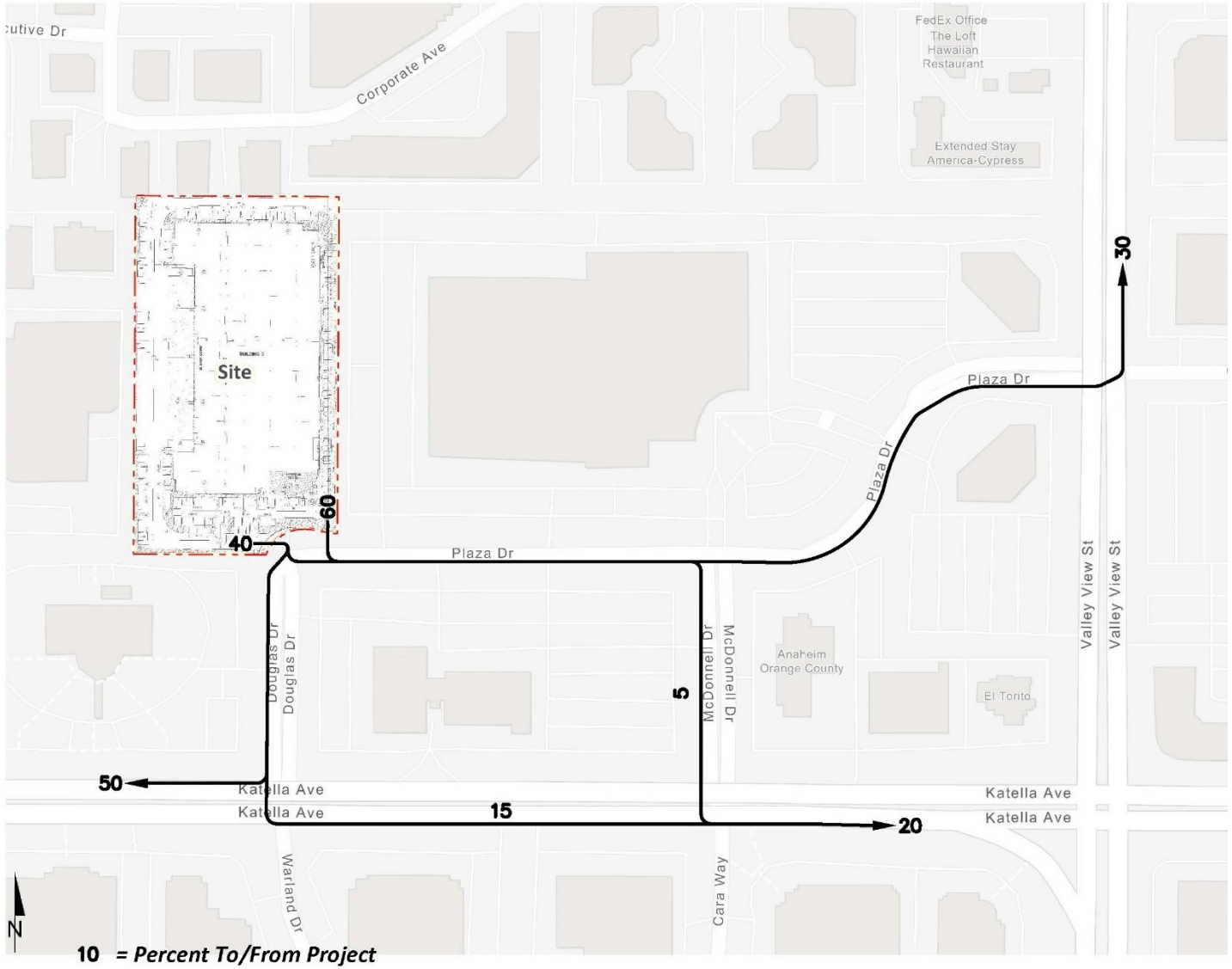


EXHIBIT 4-2: PROJECT (PASSENGER CAR) TRIP DISTRIBUTION



4.3 MODAL SPLIT

The potential for Project trips (non-truck) to be reduced by the use of public transit, walking or bicycling have not been included as part of the Project's estimated trip generation. Essentially, the Project's traffic projections are "conservative" in that these alternative travel modes would reduce the forecasted traffic volumes.

4.4 PROJECT TRIP ASSIGNMENT

The assignment of traffic from the Project area to the adjoining roadway system is based upon the Project trip generation, trip distribution, and the arterial highway and local street system improvements that would be in place by the time of initial occupancy of the Project. Based on the identified Project traffic generation and trip distribution patterns, the Project only ADT and peak hour intersection turning movement volumes are shown on Exhibit 4-3.

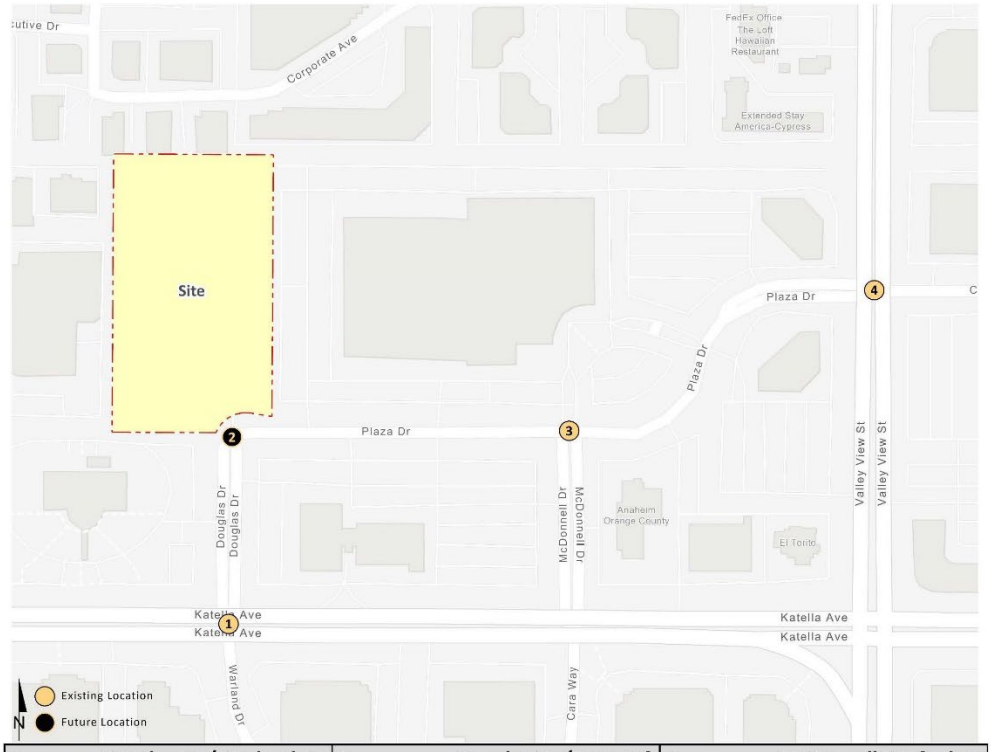
4.5 BACKGROUND TRAFFIC

Future year traffic forecasts have been based upon background (ambient) growth at 2% per year, compounded annually, for 2025 conditions. The total ambient growth is 4.04% for 2025 traffic conditions (compounded growth of 2 percent per year over 2 years or $1.02^{2\ years}$). The ambient growth factor is intended to approximate regional traffic growth. This ambient growth rate is added to existing traffic volumes to account for area-wide growth not reflected by cumulative development projects. Ambient growth has been added to daily and peak hour traffic volumes on surrounding roadways, in addition to traffic generated by the development of future projects that have been approved but not yet built and/or for which development applications have been filed and are under consideration by governing agencies.

4.6 CUMULATIVE DEVELOPMENT TRAFFIC

A cumulative project list was developed for the purposes of this analysis through consultation with planning and engineering staff from the City. The cumulative project list includes known and foreseeable projects that are anticipated to contribute traffic to the study area intersections. For the purposes of this analysis, the cumulative projects that were determined to affect one or more of the study area intersections are shown on Exhibit 4-4, listed in Table 4-5, and have been considered for inclusion. Any additional traffic generated by other projects not on the cumulative projects list is likely accounted for through background ambient growth factors that have been applied to the peak hour volumes at study area intersections as discussed in Section 4.5 *Background Traffic*. Cumulative development projects are shown in Exhibit 4-4 and listed in Table 4-5. Cumulative Only ADT and peak hour intersection turning movement volumes are shown on Exhibit 4-5. Table 4-6 summarizes the tri generation for each of the cumulative development projects.

EXHIBIT 4-3: PROJECT ONLY TRAFFIC VOLUMES (PCE)



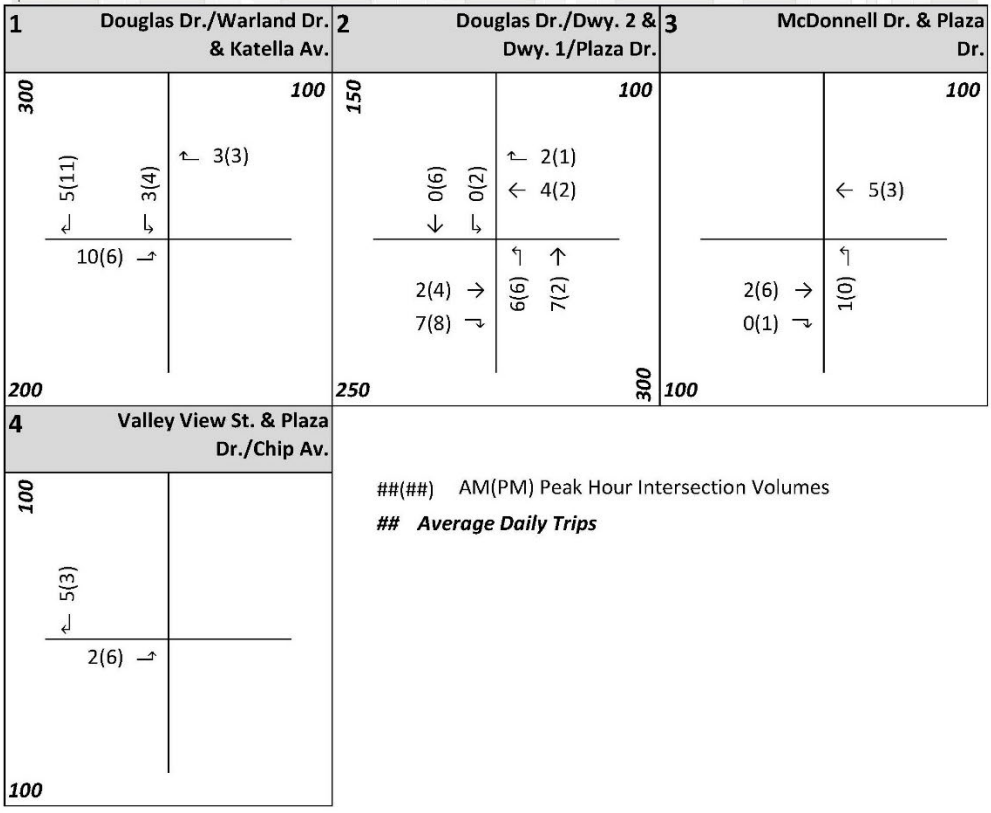


EXHIBIT 4-4: CUMULATIVE DEVELOPMENT LOCATION MAP

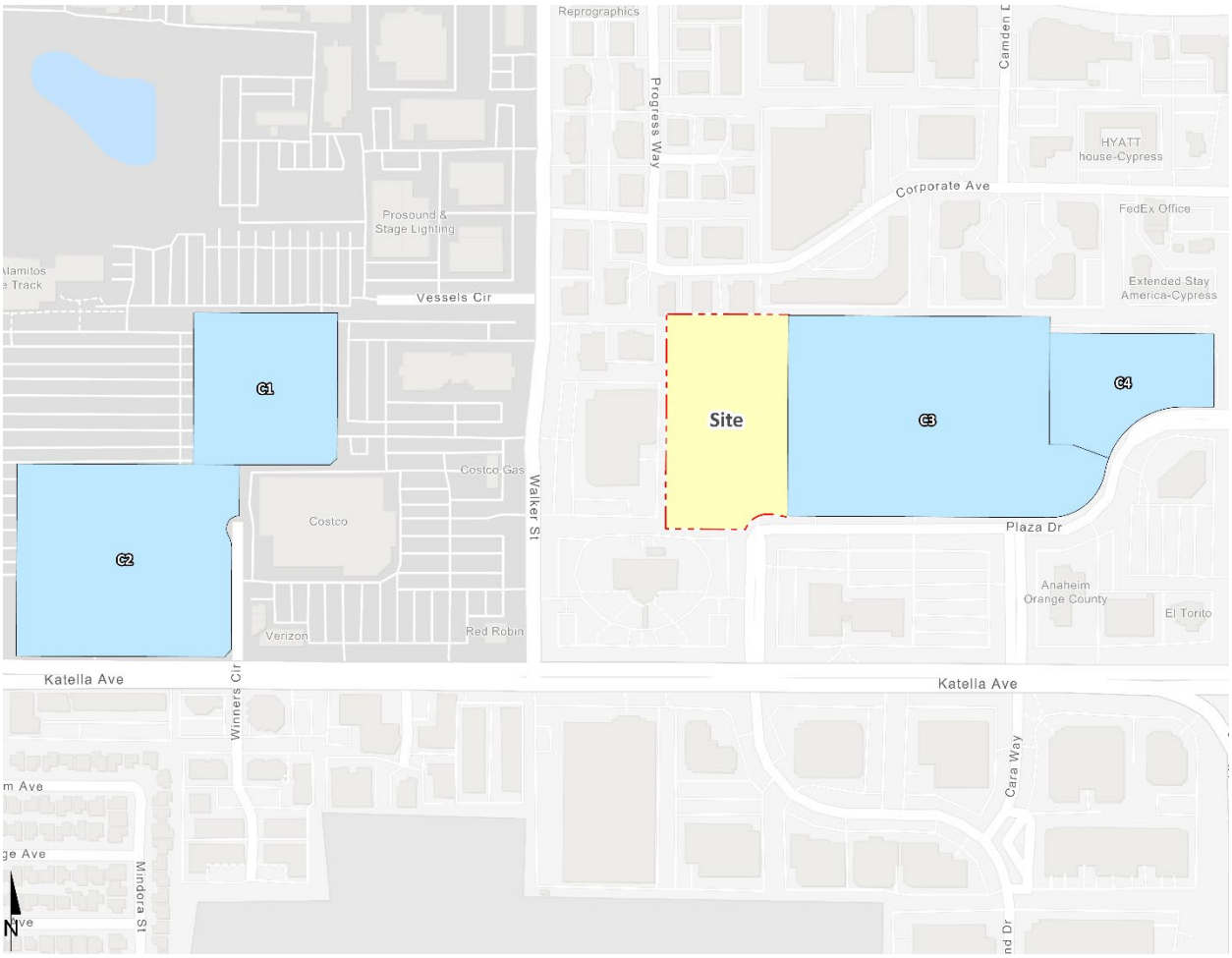
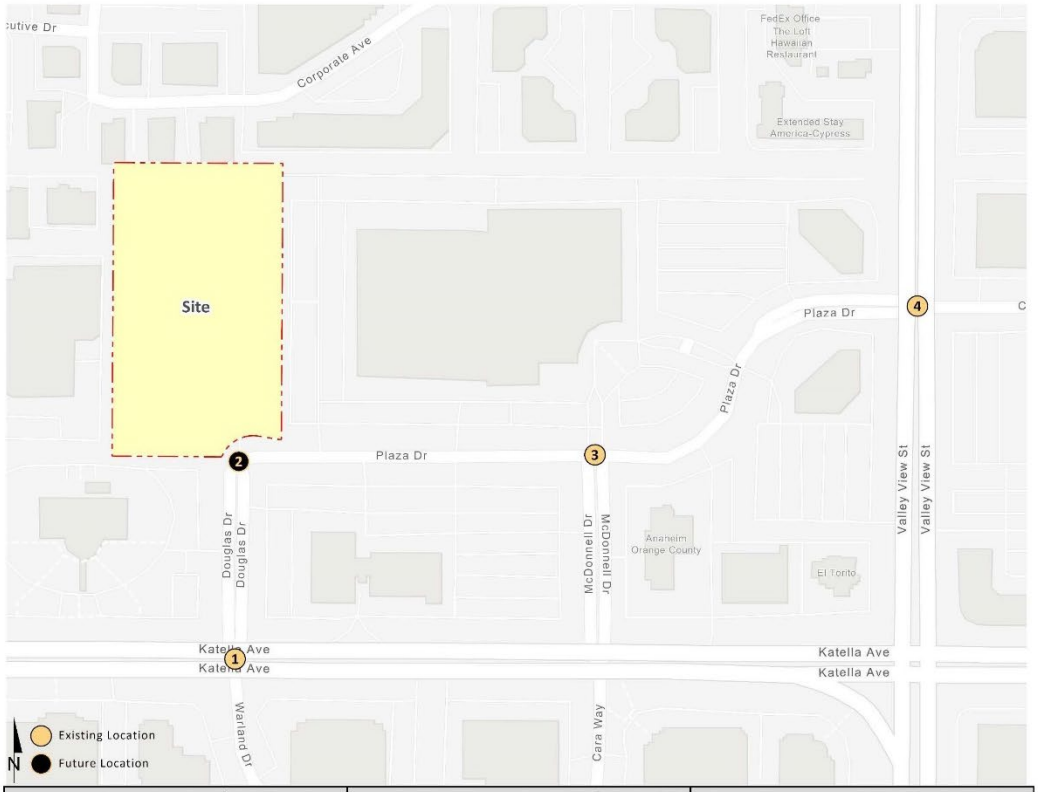


EXHIBIT 4-5: CUMULATIVE ONLY TRAFFIC VOLUMES (PCE)



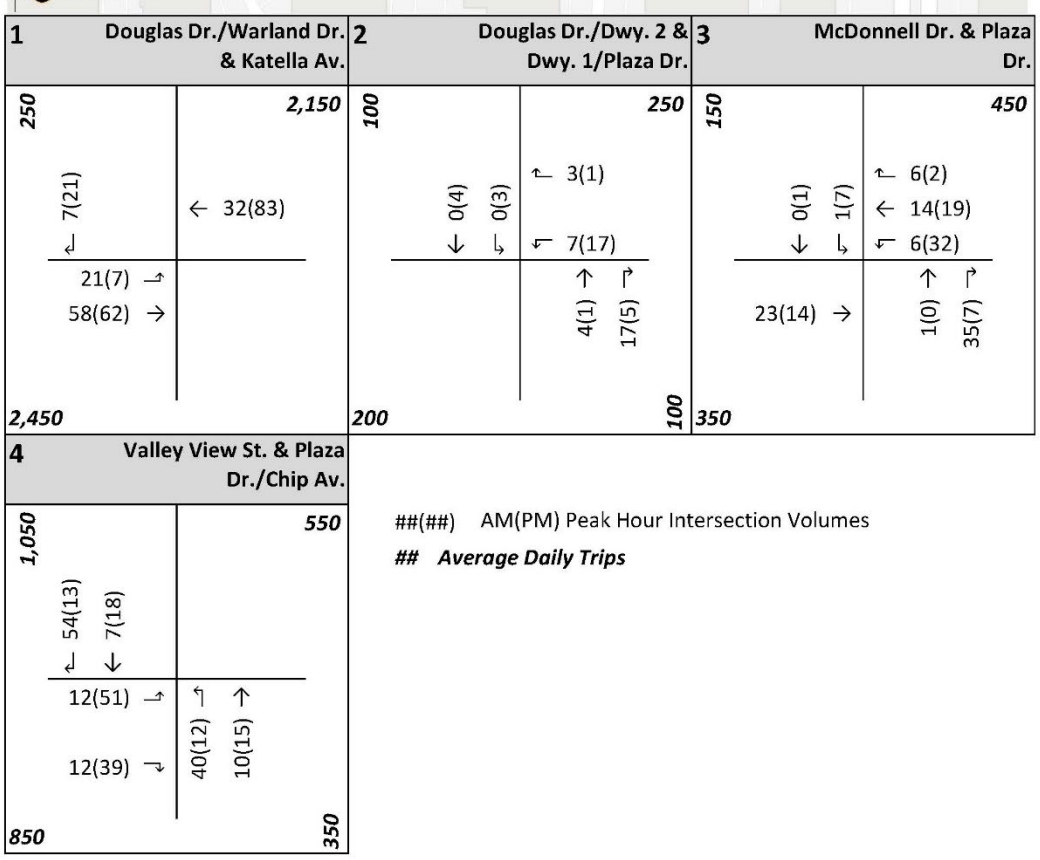


TABLE 4-5: CUMULATIVE DEVELOPMENT LAND USE SUMMARY

No.	Project Name	Land Use[1]	Quantity Units[2]
C1	Cypress Town Center 7-AC Residential	Multifamily (Low Rise) Housing	135 DU
C2	The Square	Shopping Center	20.800 TSF
		Multifamily (Mid-Rise) Housing	251 DU
		Hotel	120 Rooms
		Medical Office Building	31.585 TSF
C3	Goodman Commerce Center	High-Cube Warehousing	390.264 TSF
C4	5995 Plaza Drive	General Office	104.734 TSF

[1] TSF = Thousand Square Feet; DU = Dwelling Units

TABLE 4-6: CUMULATIVE DEVELOPMENT TRIP GENERATION SUMMARY

	AM Peak Hour			PM Peak Hour			
Land Use	In	Out	Total	In	Out	Total	Daily
C1: Cypress Town Center	14	48	62	48	28	76	988
C2: The Square	68	96	164	176	147	323	4,978
C3: Goodman Commerce Center	35	18	53	17	37	54	956
C4: 5995 Plaza Drive	140	19	159	26	125	151	1,135
Total	**257**	**181**	**438**	**267**	**337**	**604**	**8,057**

4.7 NEAR-TERM TRAFFIC CONDITIONS

The "buildup" approach combines existing traffic counts with a background ambient growth factor to forecast Future Year (2025) traffic conditions. An ambient growth factor accounts for background (area-wide) traffic increases that occur over time up to the year 2025 from the year 2023. Traffic volumes generated by the Project are then added to assess the near-term traffic conditions. The 2025 roadway network is similar to the Existing conditions roadway network, with the exception of future driveways proposed to be developed by the Project. The near-term traffic analysis includes the following traffic conditions, with the various traffic components:

- Future Year (2025) Without Project
  - Existing 2022 counts + Adjustment (30% for existing offices, and 2% overall to reflect 2023)
  - Ambient growth traffic (4.04%)
  - Cumulative Development traffic
- Future Year (2025) With Project
  - Existing 2022 counts + Adjustment (30% for existing offices, and 2% overall to reflect 2023)
  - Ambient growth traffic (4.04%)
  - Cumulative Development traffic
  - Project traffic

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5 E+P TRAFFIC CONDITIONS

This section discusses the traffic forecasts for E+P conditions and the resulting intersection operations and traffic signal warrant analyses.

5.1 ROADWAY IMPROVEMENTS

The lane configurations and traffic controls assumed to be in place for E+P conditions are consistent with those shown previously on Exhibit 3-1, with the exception of the following:

- Project driveways and those facilities assumed to be constructed by the Project to provide site access are also assumed to be in place for E+P conditions only (e.g., intersection and roadway improvements at the Project's frontage and driveways).

5.2 E+P TRAFFIC VOLUME FORECASTS

This scenario includes Existing traffic volumes plus Project traffic. The weekday ADT and weekday peak hour intersection turning movement volumes which can be expected for E+P traffic conditions are shown on Exhibit 5-1.

5.3 INTERSECTION OPERATIONS ANALYSIS

E+P peak hour traffic operations have been evaluated for the study area intersections based on the analysis methodologies presented in Section 2 *Methodologies* of this TA. The intersection analysis results are summarized on Table 5-1 for E+P traffic conditions, which indicate that all of the study area intersections are anticipated to continue to operate at an acceptable LOS under E+P traffic conditions, consistent with Existing (2023) traffic conditions. The intersection operations analysis worksheets for E+P traffic conditions are included in Appendix 5.1 of this TA.

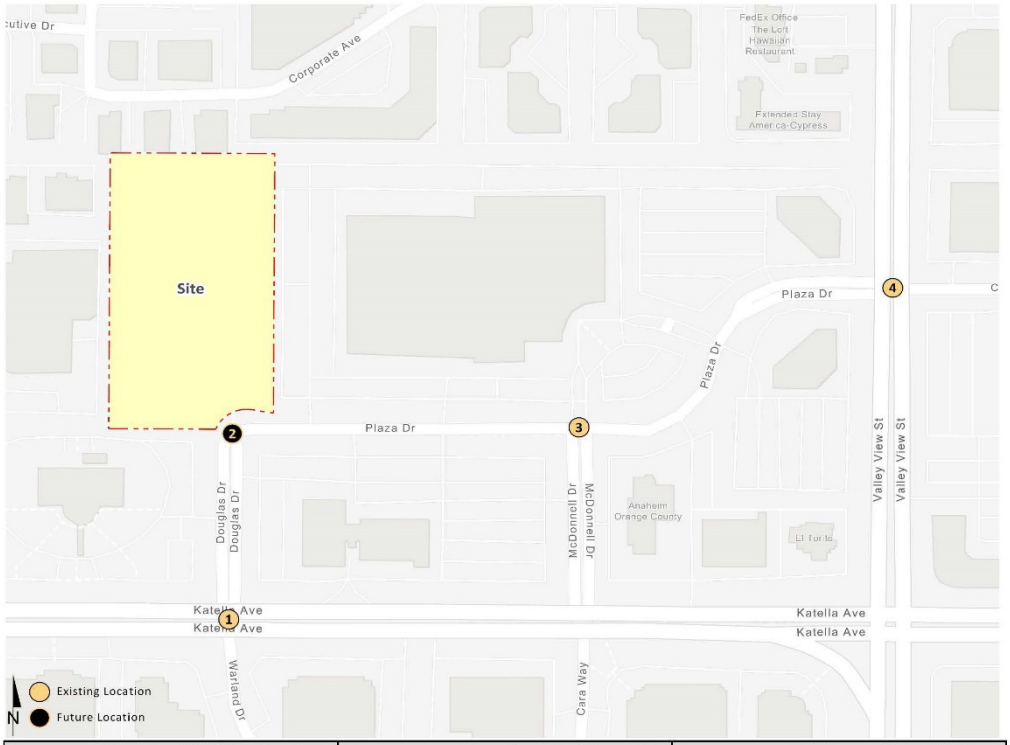
5.4 TRAFFIC SIGNAL WARRANTS ANALYSIS

The traffic signal warrant analysis for E+P traffic conditions is based on the peak hour volume-based traffic signal warrants. No study area intersections are anticipated to meet peak hour volume-based warrants with the addition of Project traffic (see Appendix 5.2).

5.5 NEAR-TERM DEFICIENCIES AND IMPROVEMENTS

All study area intersections are anticipated to continue to operate at an acceptable LOS during the AM and PM peak hours under E+P traffic conditions and below the City's thresholds for change in delay and V/C (see Table 5-1). As such, no improvements, aside from those that are needed to facilitate site access, have been identified for E+P traffic conditions.

EXHIBIT 5-1: E+P TRAFFIC VOLUMES (PCE)



1 Douglas Dr./Warland Dr. & Katella Av.

								40,050
1,300								
	20(58)	1(2)	5(30)			↱	37(9)	
						←	1782(1608)	
	↲	↓	↳			↰	12(9)	
	37(17)	→		↰	↑	↱		
	1702(1963)	→		26(83)	2(1)	5(7)		
	72(32)	↴						
43,200								1,450

2 Douglas Dr./Dwy. 2 & Dwy. 1/Plaza Dr.

								1,500
150								
	0(6)	0(2)				↱	2(1)	
						←	4(2)	
	↓	↳				↰	53(100)	
	2(4)	→		↰	↑	↱		
	7(8)	↴		6(6)	7(2)	21(24)		
250								1,650

3 McDonnell Dr. & Plaza Dr.

								900
Nominal								
	0(3)					↱	4(0)	
						←	109(83)	
	↓					↰	8(11)	
	25(92)	→		↰	↑	↱		
	0(3)	↴		20(5)	2(0)	77(9)		
2,050								350

4 Valley View St. & Plaza Dr./Chip Av.

								6,750
42,200								
	159(26)	1551(1503)	254(52)			↱	39(355)	
						←	0(30)	
	↲	↓	↳			↰	12(162)	
	11(174)	→		↰	↑	↱		
	9(0)	→		22(4)	1516(1967)	181(12)		
	15(61)	↴						
3,300								41,150

##(##) AM(PM) Peak Hour Intersection Volumes

Average Daily Trips

TABLE 5-1: INTERSECTION ANALYSIS FOR E+P CONDITIONS

#	Intersection	Traffic Control[3]	Existing								Existing plus Project								Net Change in Delay/ICU			
			Delay[1] (secs.)		Level of Service		ICU[2] (V/C)		Level of Service		Delay[1] (secs.)		Level of Service		ICU[2] (V/C)		Level of Service		Delay[1] (secs.)		ICU[2] (V/C)	
			AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	Douglas Dr./Warland Dr. & Katella Av.	TS	5.4	8.2	A	A	0.439	0.517	A	A	6.0	8.7	A	A	0.448	0.523	A	A	0.6	0.5	0.009	0.006
2	Douglas Dr./Dwy. 2 & Dwy. 1/Plaza Dr.	AWS	7.2	7.7	A	A	--	--	--	--	7.2	7.7	A	A	--	--			0.0	0.0	--	--
3	Existing Driveway/McDonnell Dr. & Plaza Dr.	CSS	9.2	10.8	A	B	--	--	--	--	9.2	10.9	A	B	--	--			0.0	0.1	--	--
4	Valley View St. & Plaza Dr./Chip Av.	TS	15.4	35.7	B	D	0.560	0.794	A	C	15.5	36.1	B	D	0.562	0.797	A	C	0.1	0.4	0.002	0.003

[1] Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown. HCM delay reported in seconds.

[2] ICU reported as a volume-to-capacity ratio and for signalized intersections only. ICU not applicable to unsignalized inspections.

[3] TS = Traffic Signal; AWS = All-Way Stop; CSS = Cross-Street Stop

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6 FUTURE YEAR (2025) TRAFFIC CONDITIONS

This section discusses the traffic forecasts for Future Year (2025) conditions and the resulting intersection operations and traffic signal warrant analyses.

6.1 ROADWAY IMPROVEMENTS

The lane configurations and traffic controls assumed to be in place for Future Year (2025) conditions are consistent with those shown previously on Exhibit 3-1, with the exception of the following:

- Project driveways and those facilities assumed to be constructed by the Project to provide site access are also assumed to be in place for Future Year (2025) conditions only (e.g., intersection and roadway improvements at the Project's frontage and driveways).
- Driveways and those facilities assumed to be constructed by cumulative developments to provide site access are also assumed to be in place for Future Year (2025) conditions only (e.g., intersection and roadway improvements along the cumulative development's frontages).

6.2 WITHOUT PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes Existing (2023) traffic volumes plus an ambient growth factor of 4.04% and traffic from pending and approved cumulative development projects. The weekday ADT volumes and peak hour volumes which can be expected for Future Year (2025) Without Project traffic conditions are shown on Exhibit 6-1.

6.3 WITH PROJECT TRAFFIC VOLUME FORECASTS

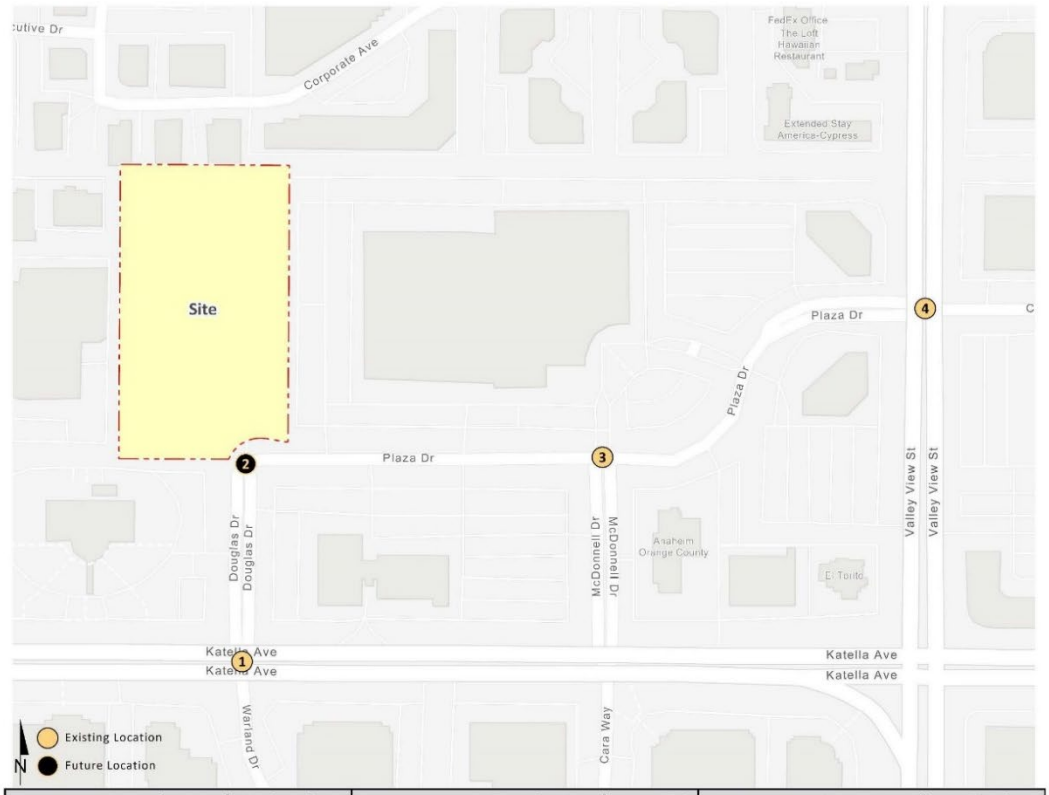
This scenario includes Existing (2023) traffic volumes plus an ambient growth factor of 4.04%, traffic from pending and approved cumulative development projects, and the addition of Project traffic. The weekday ADT volumes and peak hour volumes which can be expected for Future Year (2025) With Project traffic conditions are shown on Exhibit 6-2. Traffic volumes on the north leg of Driveway 1/Douglas Drive and Driveway 2/Plaza Drive include the traffic associated with the adjacent cumulative project.

6.4 INTERSECTION OPERATIONS ANALYSIS

Future Year (2025) peak hour traffic operations have been evaluated for the study area intersections based on the analysis methodologies presented in Section 2 *Methodologies* of this TA. The intersection analysis results are summarized on Table 6-1 for Future Year traffic conditions, which indicate the study area intersections are anticipated to continue to operate at an acceptable LOS under Future Year (2025) Without and With Project traffic conditions. The intersection operations analysis worksheets for Future Year (2025) Without and With Project traffic conditions are included in Appendix 6.1 and Appendix 6.2 of this TA, respectively.

Install a new southbound signal head on the northwest corner of Douglas Drive/Warland Drive at Katella Avenue for southbound approach vehicles in order to display the signal indication should a truck in the southbound lanes obstruct the existing signal heads on the mast arm. The new signal head will be installed on the existing pole on the northwest corner.

EXHIBIT 6-1: FUTURE YEAR (2025) WITHOUT PROJECT TRAFFIC VOLUMES (PCE)



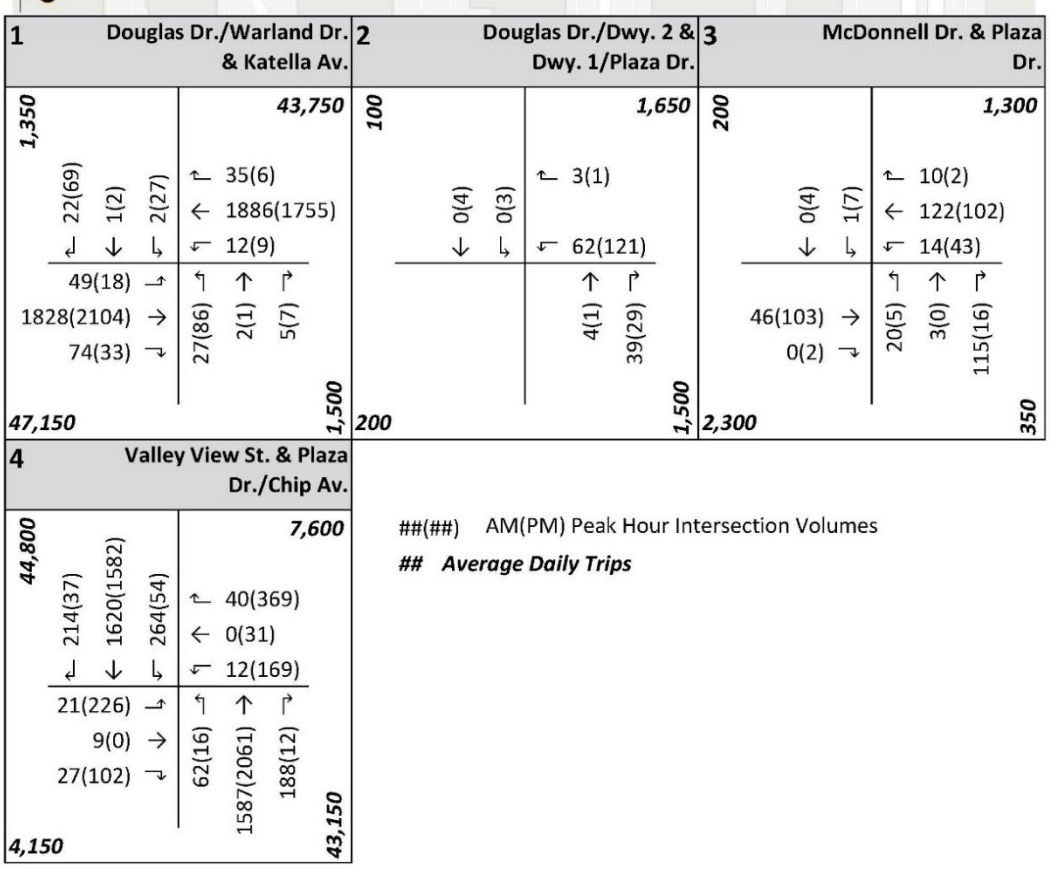
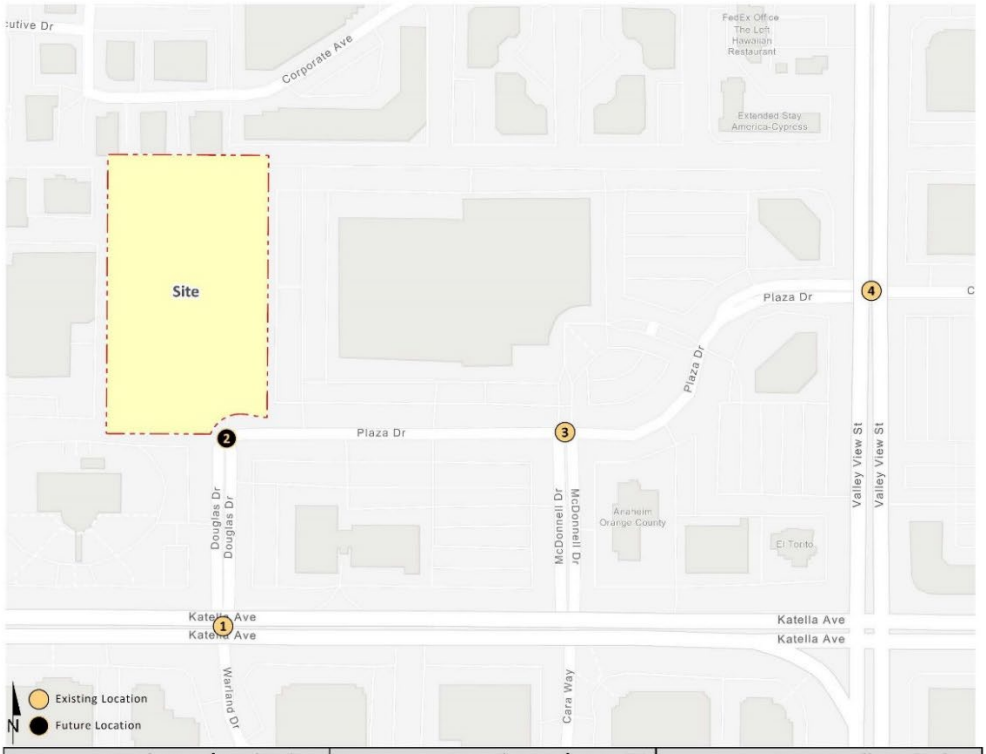


EXHIBIT 6-2: FUTURE YEAR (2025) WITH PROJECT TRAFFIC VOLUMES (PCE)



1 Douglas Dr./Warland Dr. & Katella Av.

1,600					43,850
	27(80)	1(2)	5(31)	↱ 38(9)	
				← 1886(1755)	
	↲	↓	↳	↰ 12(9)	
	59(24)	↱		↰	↑	↱
	1828(2104)	→		27(86)	2(1)	5(7)
	74(33)	↴			
47,350					1,500

2 Douglas Dr./Dwy. 2 & Dwy. 1/Plaza Dr.

300					1,800
	0(10)	0(5)	↱ 5(2)		
			← 4(2)		
	↓	↳	↰ 62(121)		
			↰	↑	↱
	2(4)	→	6(6)	11(3)	39(29)
	7(8)	↴			
450					1,800

3 McDonnell Dr. & Plaza Dr.

150					1,400
	0(1)	1(7)	↱ 6(2)		
			← 127(105)		
	↓	↳	↰ 14(43)		
			↰	↑	↱
	48(109)	→	21(5)	3(0)	115(16)
	0(3)	↴			
2,450					350

4 Valley View St. & Plaza Dr./Chip Av.

44,950					7,600
	219(40)	1620(1582)	264(54)	↱ 40(369)	
				← 0(31)	
	↲	↓	↳	↰ 12(169)	
	23(232)	↱		↰	↑	↱
	9(0)	→		62(16)	1587(2061)	188(12)
	27(102)	↴			
4,250					43,150

##(##) AM(PM) Peak Hour Intersection Volumes

Average Daily Trips

TABLE 6-1: INTERSECTION ANALYSIS FOR FUTURE YEAR (2025) CONDITIONS

			2025 Without Project								2025 With Project								Net Change in Delay/ICU			
			Delay[1] (secs.)		Level of Service		ICU[2] (V/C)		Level of Service		Delay[1] (secs.)		Level of Service		ICU[2] (V/C)		Level of Service		Delay[1] (secs.)		ICU[2] (V/C)	
#	Intersection	Traffic Control[3]	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	Douglas Dr./Warland Dr. & Katella Av.	TS	6.8	9.4	A	A	0.477	0.559	A	A	7.7	9.8	A	A	0.486	0.565	A	A	0.9	0.4	0.009	0.006
2	Douglas Dr./Dwy. 2 & Dwy. 1/Plaza Dr.	AWS	7.2	7.8	A	A	--	--	--	--	7.3	7.9	A	A	--	--	--	--	0.1	0.1	--	--
3	Existing Driveway/McDonnell Dr. & Plaza Dr.	CSS	10.9	12.0	B	B	--	--	--	--	10.9	11.9	B	B	--	--	--	--	0.0	-0.1	--	--
4	Valley View St. & Plaza Dr./Chip Av.	TS	18.6	45.7	B	D	0.582	0.856	A	D	18.7	46.8	B	D	0.582	0.860	A	D	0.1	1.1	0.000	0.004

[1] Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown. HCM delay reported in seconds.

[2] ICU reported as a volume-to-capacity ratio and for signalized intersections only. ICU not applicable to unsignalized inspections.

[3] TS = Traffic Signal; AWS = All-Way Stop; CSS = Cross-Street Stop

6.5 TRAFFIC SIGNAL WARRANTS ANALYSIS

The traffic signal warrant analysis for Future Year (2025) traffic conditions are based on the peak hour volume-based traffic signal warrants. There are no study area intersections anticipated to meet traffic signal warrants for both Future Year (2025) Without and With Project traffic conditions (see Appendix 6.3 and Appendix 6.4, respectively).

6.6 PROJECT DEFICIENCIES AND RECOMMENDED IMPROVEMENTS

This section provides a summary of Project deficiencies and recommended improvements. There are no study area intersections anticipated to operate at an unacceptable LOS under Future Year (2025) traffic conditions and below the City's thresholds for change in delay and V/C (see Table 6-1). However, a new southbound signal head on the northwest corner of Douglas Drive/Warland Drive at Katella Avenue for southbound approach vehicles is recommended. The new signal head will be installed on the existing pole on the northwest corner. The purpose of the new signal head is to display the signal indication should a truck in the southbound lanes obstruct the existing signal heads on the mast arm.

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7 LOCAL AND REGIONAL FUNDING MECHANISMS

Transportation improvements within the City of Cypress are funded through a combination of project mitigation, development impact fee programs and/or fair share contributions, such as the City of Cypress Development Impact Fee (DIF) program. Identification and timing of needed improvements is generally determined through local jurisdictions based upon a variety of factors.

7.1 DEVELOPMENT IMPACT FEE PROGRAM

Per the City of Cypress Master Fee Schedule Resolution No. 6118 (adopted March 8, 2010), the Project is subject to pay a City-wide Traffic Improvement Fee of $0.65 per square foot and a Regional Traffic Improvement Fee of $0.06 per square foot (for light industrial development). These Development Impact Fees (DIF) are collected from new residential, commercial, and industrial development for the purpose of funding roadway and intersection improvements necessary to accommodate City growth as identified in the City's General Plan Circulation Element. The Project's transportation impacts fee calculations are shown on Table 7-1.

TABLE 7-1: ESTIMATED FEE OBLIGATION

Fee	Land Use Category	Unit Cost	Project Units	Fee
City-Wide Traffic Improvement Fee	Light Industrial	$0.65	191,394 SF	$124,406.10
Regional Traffic Improvement Fee	Light Industrial	$0.06	191,394 SF	$11,483.64
Total				**$135,889.74**

Note: Rates adopted March 8, 2010.

The Project Applicant will be subject to the City's DIF fee program and will pay the requisite City DIF fees at the rates then in effect pursuant to the City's ordinance. The Project Applicant's payment of the requisite DIF at the rates then in effect, pursuant to the City DIF Program, would satisfy the Project's proportional contribution at potentially affected DIF-funded facilities.

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8 REFERENCES

1. **City of Cypress.** *Transportation Operational Assessment (Level-Of-Service Traffic Study) Guidelines.* City of Cypress : s.n., April 2023.
2. **Institute of Transportation Engineers.** *Trip Generation Manual.* 11th Edition. 2021.
3. **Orange County Transportation Authority.** *2021 Orange county Congestion Management Program Report.* County of Orange : s.n., November 2021.
4. **Transportation Research Board.** *Highway Capacity Manual (HCM).* 6th Edition. s.l. : National Academy of Sciences, 2016.
5. **California Department of Transportation.** California Manual on Uniform Traffic Control Devices (CA MUTCD). [book auth.] California Department of Transportation. *California Manual on Uniform Traffic Control Devices (CA MUTCD).* 2014, Updated March 30, 2021 (Revision 6).

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APPENDIX 1.1: APPROVED TRAFFIC STUDY SCOPING AGREEMENT

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City of CYPRESS

Attachment A

TRANSPORTATION ASSESSMENT SCOPING FORM

This Transportation Assessment Scoping Form acknowledges that the transportation assessment for the following project will be prepared in accordance with the latest version of City's Transportation Operational Assessment Guidelines. **The completed form must be submitted via the City's online portal at:** https://cypressca.viewpointcloud.com/categories/1092/record-types/6520

Project Name: Goodman Commerce Center

Project Address: 5665 Plaza Drive

Project Description: 191,394 square feet of warehouse use

Project Trip Generation Rate(s): ITE 11th Edition / Other ITE 11th Edition, Code 157

The project trip generation table with a summary of the proposed and existing land uses, ITE trip rates and forecast morning and afternoon peak hour trips are attached.

	IN	OUT	TOTAL
Net AM Trips	-31	+3	-28
Net PM Trips	+2	-24	-22

TOTAL Net Daily Trips +196

Net Change in PCE

Trip Generation Adjustments: Exact amount of credit subject to acceptance by the City of Cypress Traffic Engineer.

	Yes (% applied)	No	Existing/Prior Use Counts Collected?
Existing/Prior Active Land Use	25% occupied		Yes / No (No)
Internal Trip Capture		X	
Pass-By Trip		X	

Project Geographic Distribution: N 30 C 20 T % S 0 % E 20 C 30 T % W 50 C 50 T %

Attach graphic illustrating project trip distribution (inbound and outbound) percentages at the studied intersections.

Project Buildout Year: 2025 **Ambient Growth Rate**: 2.0 % Per Yr.

Related Projects: To be researched by the consultant. The related projects trip generation table and map are attached as part of the TAS.

Proposed Study Intersections: (May be subject to revision after initial impact analysis.)

1. Douglas Dr. & Katella Av.	4. Valley View St. & Plaza Dr.
2. Douglas Dr./Dwy. 2 & Dwy. 1/Plaza Dr.	5.
3 McDonnell Dr./Cara Way & Plaza Dr.	6.

Other Analysis/Assumptions or Exceptions:

See Special Issues of attached Scoping Memo

Consultant Name: Charlene So, Urban Crossroads, Inc.

Phone: 949-861-0177

E-Mail: cso@urbanxroads.com

Submitted by: Charlene So 08/17/2023

Consultant Signature / Date

MEMORANDUM

URBAN | CROSSROADS

DATE: August 17, 2023
TO: Dave Roseman, City of Cypress
FROM: Charlene So, Urban Crossroads, Inc.
JOB NO: 15593-01 TA Scope

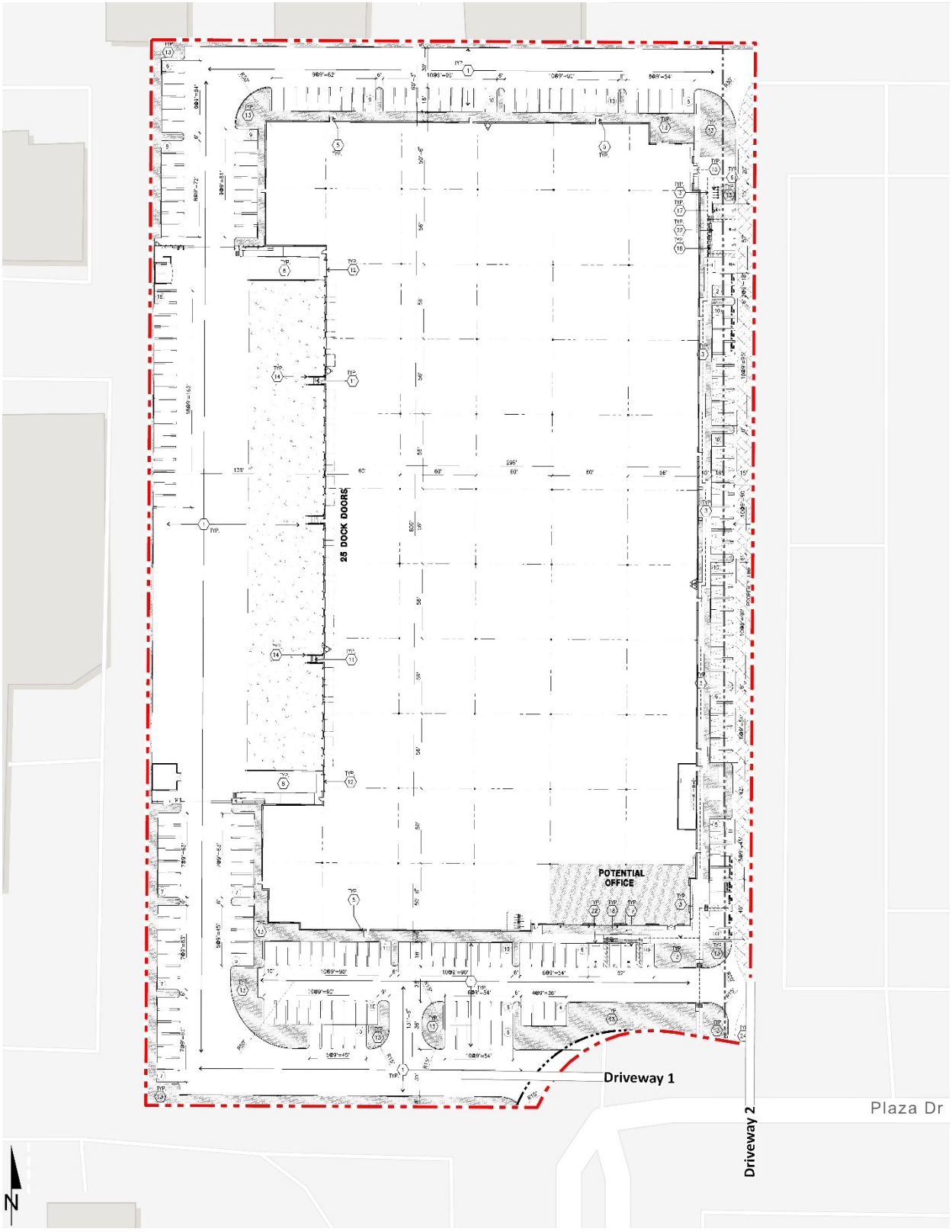
GOODMAN COMMERCE CENTER TRAFFIC ANALYSIS SCOPING AGREEMENT (REVISED)

Urban Crossroads, Inc. is pleased to submit this scoping letter to City of Cypress for the proposed Goodman Commerce Center development (**Project**), which is located at 5665 Plaza Drive in the City of Cypress. This letter describes the draft proposed Project trip generation, trip distribution, and analysis methodology, which have been used to establish the proposed Project study area and analysis locations. The purpose of this work effort is to determine whether additional traffic analysis is necessary for the proposed Project based on the City of Cypress's Transportation Operational Assessment (Level of Service Traffic Study) Guidelines (April 2023) (**City Guidelines**). Our goal is to obtain comments from City of Cypress staff, to ensure that the traffic study fully addresses the potential impacts of the proposed Project.

PROPOSED PROJECT

The Project consists of the development of a 191,394 square foot warehouse building. The Traffic Study will evaluate 95,697 square feet of high-cube transload/short-term storage warehouse use and 95,697 square feet of high-cube cold storage warehouse use. A preliminary site plan for the proposed Project is shown on Exhibit 1. The Project will provide access to Plaza Drive via a new driveway within the westerly end of Plaza Drive and a shared driveway with the proposed industrial building to the east. The westerly driveway (Driveway 1) will serve passenger cars and trucks while the easterly driveway will serve passenger cars only. The Project is anticipated to have an opening year of 2025. The proposed Project will replace an existing 150,626 square foot office building.

EXHIBIT 1: PRELIMINARY SITE PLAN



TRIP GENERATION

EXISTING TRAFFIC

The proposed Project will replace an existing 150,626 square foot office building. At the time traffic counts were conducted on August 30, 2022, the office building was 41% occupied, however, in an effort to recognize that leased tenants may have been underutilizing the space, the building has been assumed to be 25% occupied. In an effort to understand the existing traffic associated with the current uses, the trip generation rates used for this analysis are based upon information collected by the Institute of Transportation Engineers (**ITE**) as provided in their Trip Generation Manual (11th Edition, 2021) for the existing general office (ITE Land Use Code 710) use (see Table 1).

General Office (ITE Land Use Code 710) has been used to calculate the trip generation for the existing 37,657 square feet of occupied office use (25% of 150,626 square feet). The trip generation summary illustrating daily, and peak hour trip generation estimates for the existing uses are shown on Table 1. As shown on Table 1, the existing use generates a total of 408 two-way trips per day with 57 AM peak hour trips and 54 PM peak hour trips.

TABLE 1: EXISTING TRIP GENERATION SUMMARY

Land Use[1]	Units[2]	ITE LU Code	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
General Office (based on average rates)	TSF	710	1.34	0.18	1.52	0.24	1.20	1.44	10.84

[1] Trip Generation Source: Institute of Transportation Engineers (ITE), Trip Generation Manual, Eleventh Edition (2021).

[2] TSF = thousand square feet

Land Use	Quantity	Units[1]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
General Office[2]	37.657	TSF	50	7	57	9	45	54	408

[1] TSF = Thousand Square Feet

[2] 25% of the 150,626 square foot office building was occupied in August 2022 (or 37,657 square feet).

PROPOSED PROJECT

The proposed Project consists of a single 191,394 square foot warehouse building. In order to develop the traffic characteristics of the proposed project, trip-generation statistics published in the ITE Trip Generation Manual (11th Edition, 2021) was used for the proposed Project. Table 2 summarizes the trip generation rates. For purposes of this assessment, the following land use and vehicle mix has been utilized:

- ITE land use code 157 (High-Cube Cold Storage Warehouse) has been used to derive site specific trip generation estimates for up to 191,394 square feet. High-cube cold storage warehouses include warehouses characterized by the storage and/or consolidation of manufactured goods (and to a lesser extent, raw materials) prior to their distribution to retail locations or other warehouses. High-cube cold storage warehouses are facilities typified by temperature-controlled environments for frozen food or other perishable products. The High-Cube Cold Storage Warehouse vehicle mix (passenger cars versus trucks) has been obtained from the ITE's Trip Generation Manual. The truck percentages

were further broken down by axle type per the following South Coast Air Quality Management District (**SCAQMD**) recommended truck mix: 2-Axle = 34.7%; 3-Axle = 11.0%; 4+-Axle = 54.3%.

TABLE 2: TRIP GENERATION RATES

Land Use[1]	Units[2]	ITE LU Code	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Actual Vehicle Trip Generation Rates									
High-Cube Cold Storage Warehouse[3]	TSF	157	0.085	0.025	0.110	0.034	0.086	0.120	2.120
Passenger Cars (AM-72.7%, PM-75.0%, Daily-64.6%)			0.076	0.004	0.080	0.019	0.071	0.090	1.370
2-Axle Trucks (AM-9.5%, PM-8.7%, Daily-12.3%)			0.003	0.007	0.010	0.005	0.005	0.010	0.260
3-Axle Trucks (AM-3.0%, PM-2.8%, Daily-3.9%)			0.001	0.002	0.003	0.002	0.001	0.003	0.083
4+-Axle Trucks (AM-14.8%, PM-13.6%, Daily-19.2%)			0.005	0.011	0.016	0.008	0.008	0.016	0.407
Passenger Car Equivalent (PCE) Trip Generation Rates[6]									
High-Cube Cold Storage Warehouse[3]	TSF	157	0.085	0.025	0.110	0.034	0.086	0.120	2.120
Passenger Cars			0.076	0.004	0.080	0.019	0.071	0.090	1.370
2-Axle Trucks (PCE = 1.5)			0.005	0.011	0.016	0.008	0.008	0.016	0.390
3-Axle Trucks (PCE = 2.0)			0.002	0.005	0.007	0.004	0.003	0.007	0.165
4+-Axle Trucks (PCE = 3.0)			0.015	0.034	0.049	0.024	0.025	0.049	1.222

[1] Trip Generation & Vehicle Mix Source: Institute of Transportation Engineers (ITE), Trip Generation Manual, Eleventh Edition (2021).

[2] TSF = thousand square feet

[3] Truck Mix: South Coast Air Quality Management District's (SCAQMD) recommended truck mix, by axle type.
Normalized % - With Cold Storage: 34.7% 2-Axle trucks, 11.0% 3-Axle trucks, 54.3% 4-Axle trucks.

Passenger car equivalent (**PCE**) factors were applied to the trip generation rates for heavy trucks (2-axles, 3-axles, and 4+-axles). PCEs allow the typical "real-world" mix of vehicle types to be represented as a single, standardized unit, such as the passenger car, to be used for the purposes of capacity and LOS analyses. The PCE factors are consistent with those used on other near-by projects.

The trip generation summary illustrating daily, and peak hour trip generation estimates for the proposed Project are summarized on Table 3 in actual vehicles. The proposed Project is anticipated to generate 406 two-way trips per day with 21 AM peak hour trips and 24 PM peak hour trips (actual vehicles). Intersection operations analysis for a truck-intensive project would be required to utilize the PCE trip generation consistent with the City's Guidelines. As such, the Project's trip generation in PCE is also shown on Table 3. The Project is anticipated to generate 604 two-way PCE trips per day with 29 PCE AM peak hour trips and 32 PCE PM peak hour trips.

TABLE 3: PROJECT TRIP GENERATION SUMMARY

Land Use	Quantity	Units[1]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Actual Vehicles:									
High-Cube Cold Storage Warehouse	191.394	TSF							
Passenger Cars:			15	1	16	4	14	18	262
2-axle Trucks:			1	1	2	1	1	2	50
3-axle Trucks:			0	0	0	0	0	0	16
4+-axle Trucks:			1	2	3	2	2	4	78
Total Truck Trips (Actual Vehicles):			2	3	5	3	3	6	144
Total Trips (Actual Vehicles)[2]			**17**	**4**	**21**	**7**	**17**	**24**	**406**
Passenger Car Equivalent (PCE):									
High-Cube Cold Storage Warehouse	191.394	TSF							
Passenger Cars:			15	1	16	4	14	18	262
2-axle Trucks:			1	2	3	1	2	3	76
3-axle Trucks:			0	1	1	1	0	1	32
4+-axle Trucks:			3	6	9	5	5	10	234
Total Truck Trips (PCE):			4	9	13	7	7	14	342
Total Trips (PCE)[2]			**19**	**10**	**29**	**11**	**21**	**32**	**604**

[1] TSF = Thousand Square Feet

[2] Total = Passenger Cars + Trucks

TRIP GENERATION COMPARISON

Table 4 shows the trip generation comparison between the existing and proposed use. It is our understanding that the existing warehouse/office building is currently vacant and generates only incidental vehicle trips, however, should the existing site be fully occupied, then it is anticipated there would be a net reduction in trips. The resulting net new trips are identified at the bottom of Table 4. The trip generation comparison is based on PCE as the existing and proposed uses are truck-intensive uses (any intersection operations analysis would use the PCE-based trip generation). As shown on Table 4, the Project is anticipated to generate a net increase of 196 two-way trips per day with a net reduction of 28 AM peak hour trips and net reduction of 22 PM peak hour trips (in PCE). Trip generation shown on Table 3 will be utilized for the intersection operations analyses.

TABLE 4: TRIP GENERATION COMPARISON

	AM Peak Hour			PM Peak Hour			
Land Use	In	Out	Total	In	Out	Total	Daily
Proposed Project							
Passenger Cars:	15	1	16	4	14	18	262
Total Truck Trips (PCE):	4	9	13	7	7	14	342
Total Trips (PCE)	**19**	**10**	**29**	**11**	**21**	**32**	**604**
Existing Use: General Office							
Passenger Cars:	50	7	57	9	45	54	408
Total Truck Trips (PCE):	0	0	0	0	0	0	0
Total Trips (PCE)	**50**	**7**	**57**	**9**	**45**	**54**	**408**
Variance							
Passenger Cars:	-35	-6	-41	-5	-31	-36	-146
Total Truck Trips (PCE):	4	9	13	7	7	14	342
Total Trips (PCE)	**-31**	**3**	**-28**	**2**	**-24**	**-22**	**196**

PROJECT TRIP DISTRIBUTION

Trip distribution is the process of identifying the probable destinations, directions or traffic routes that will be utilized by Project traffic. The potential interaction between the planned land uses and surrounding regional access routes are considered, to identify the route where the Project traffic would distribute. The Project trip distribution and assignment process represents the directional orientation of traffic to and from the Project site. The trip distribution pattern of passenger cars is heavily influenced by the geographical location of the site, the location of surrounding land uses, and the proximity to the regional freeway system.

The trip distribution pattern for truck traffic is also influenced by the local truck routes. Both Valley View Street and Katella Avenue are truck routes within the City of Cypress. Given the differences between the vehicle types, separate trip distributions were generated for both passenger cars and truck trips. The Project passenger car and truck trip distribution patterns are graphically depicted on Exhibits 2 and 3, respectively. Distributions of passenger cars and trucks have been determined based on traffic count data.

EXHIBIT 2: PROJECT (PASSENGER CAR) TRIP DISTRIBUTION

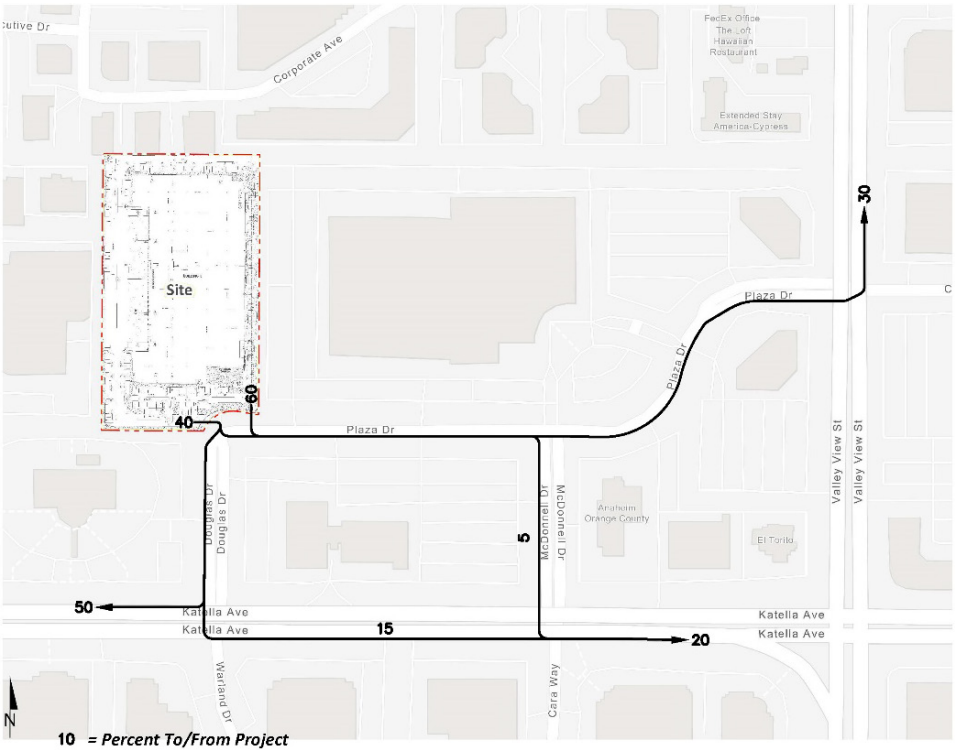
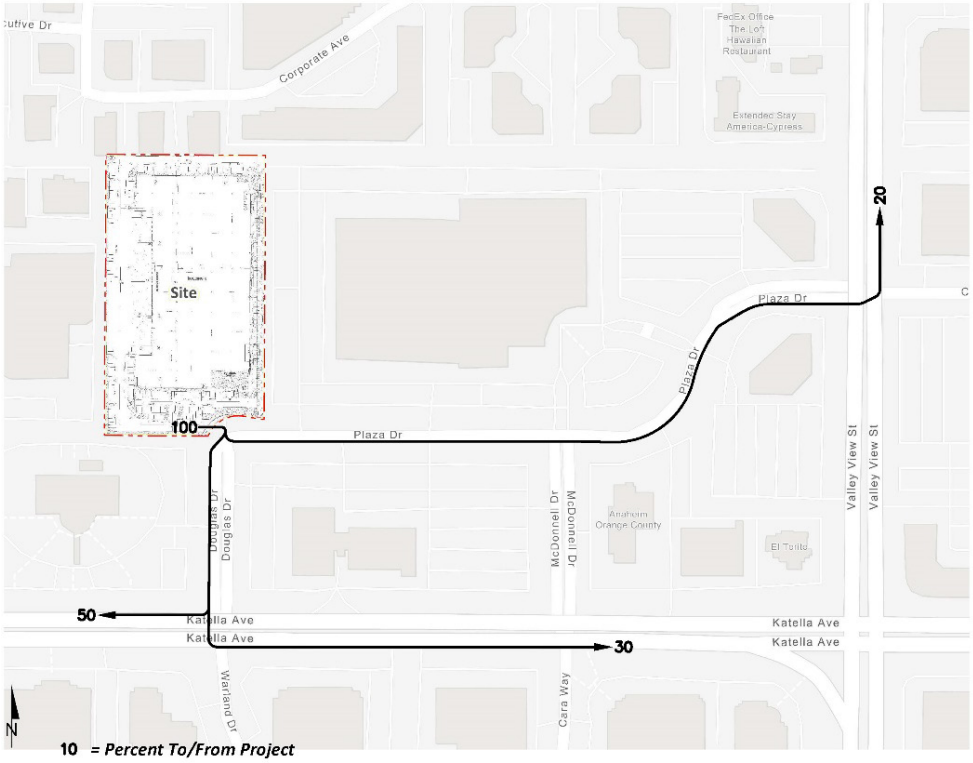


EXHIBIT 3: PROJECT (TRUCK) TRIP DISTRIBUTION



ANALYSIS SCENARIOS

Peak hour operations at each of the study area intersections and site access driveways will be assessed based on the HCM 6th Edition methodology and the ICU methodology results will be reported for signalized intersections under the following analysis scenarios:

- Existing (2023) Conditions
- Existing plus Project (E+P) Conditions
- Opening Year Cumulative (2025) Without Project Conditions: existing traffic, ambient growth, and traffic associated with the two large development projects currently under construction near the Costco
- Opening Year Cumulative (2025) With Project Conditions: existing traffic, ambient growth, traffic associated with the two large development projects currently under construction near the Costco, and proposed Project traffic

The following parameters will be utilized in determining the LOS at the study area intersections:

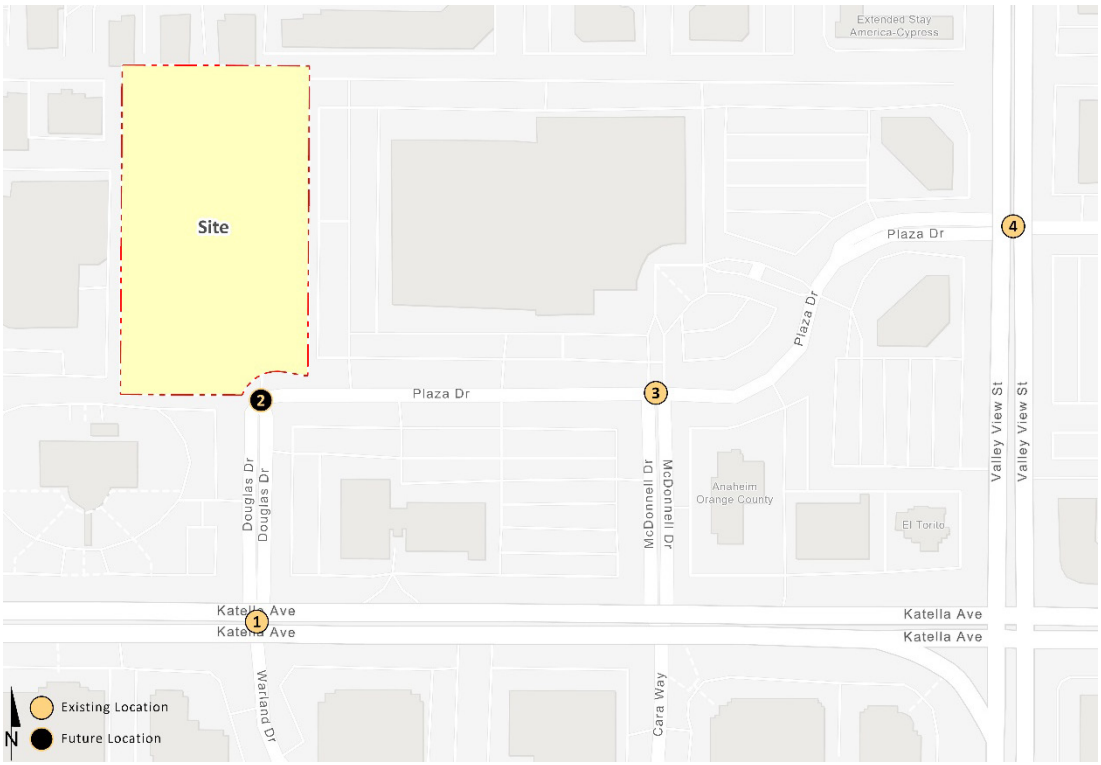
- Saturation flow rate of 1,700 vehicles per hour per lane or 2,880 vehicles per hour of green for dual-turning lanes.
- The adjustment for lost time shall be 0.05.

STUDY AREA

Based upon the Project trip generation and trip distribution patterns included as part of this letter, the proposed study area intersections are identified on Exhibit 4.

#	Intersection
1	Douglas Dr. & Katella Av.
2	Douglas Dr./Dwy. 2 & Dwy. 1/Plaza Dr.
3	McDonnell Dr./Cara Wy. & Plaza Dr.
4	Valley View St. & Plaza Dr.

EXHIBIT 4: STUDY AREA



EXISTING COUNT DATA

Traffic counts (classified by vehicle type) conducted on August 30, 2022, when local schools were in session and operating on a typical bell schedule are proposed to be utilized for the purposes of the traffic study. An adjustment factor of 2% will be applied to the 2022 traffic counts for 2023 baseline conditions. Time periods counted were from 7:00-9:00 AM and 4:00-6:00 PM and include pedestrian and bicycle counts at each analysis location. No adjustments are proposed to the new traffic counts for the baseline traffic condition as traffic counts with the exception of volume balancing that would be necessary between closely spaced intersections.

AMBIENT GROWTH

Pursuant to discussion with City staff and consistent with other studies performed in the area, an ambient growth rate of 2% per year is proposed for the study area intersection to approximate background growth not identified by nearby cumulative development projects. As such, the ambient growth used will be 4.04% (2% per year compounded over 2 years).

CUMULATIVE DEVELOPMENT PROJECTS

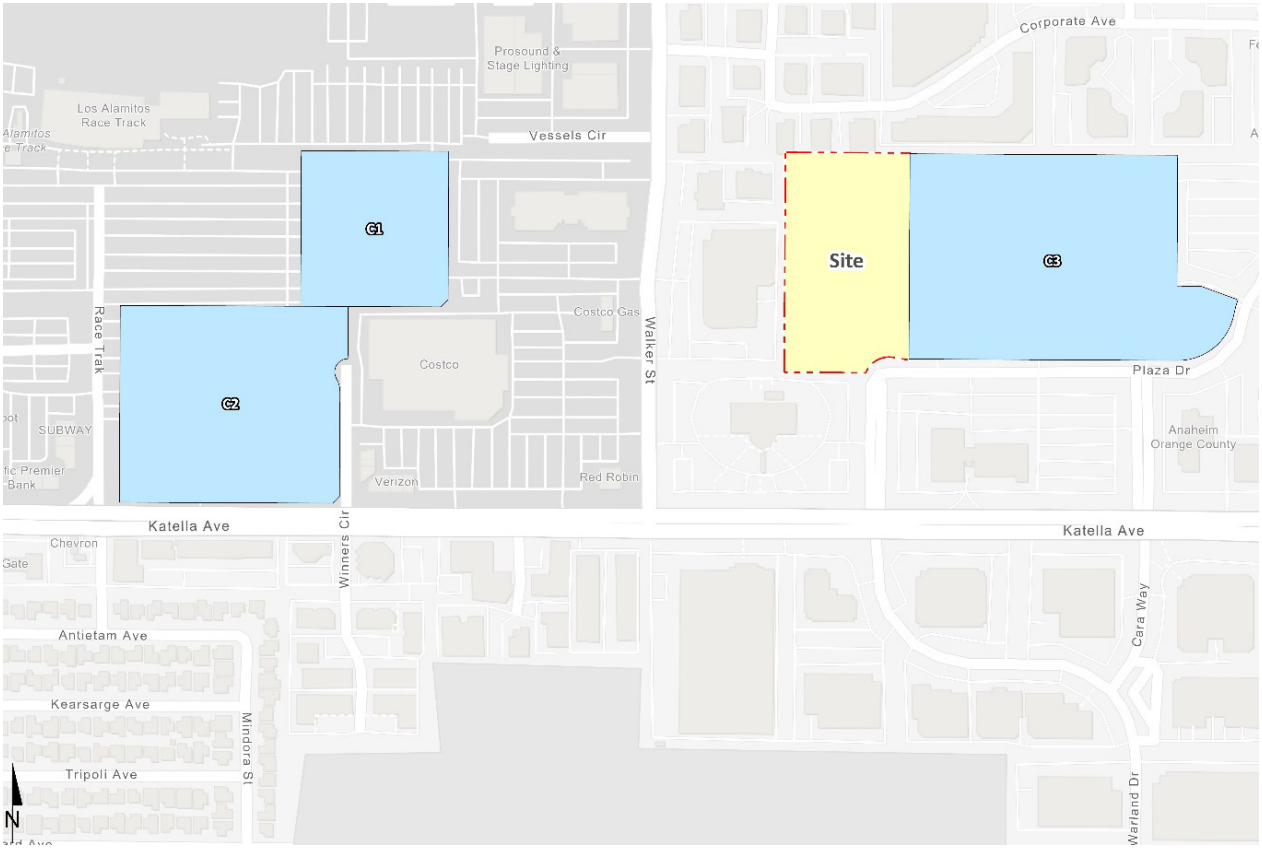
It is requested that the City provide a list of cumulative projects that need to be considered for the focused traffic analysis if there are projects that need to be included in conjunction with the ambient growth rate. A preliminary cumulative project list is provided on Table 5 and the locations are graphically shown on Exhibit 5.

TABLE 5: CUMULATIVE DEVELOPMENT LAND USE SUMMARY

No.	Project Name	Land Use[1]	Quantity	Units[2]
C1	Cypress Town Center 7-AC Residential	Multifamily (Low Rise) Housing	135	DU
C2	The Square	Shopping Center	20.800	TSF
		Multifamily (Mid-Rise) Housing	251	DU
		Hotel	120	Rooms
		Medical Office Building	31.585	TSF
C3	Goodman Commerce Center	High-Cube Warehousing	390.264	TSF

[1] TSF = Thousand Square Feet; DU = Dwelling Units

EXHIBIT 5: CUMULATIVE DEVELOPMENT PROJECT LOCATION MAP



LEVEL OF SERVICE (LOS) METHDOLOGY

The City of Cypress requires signalized intersections to be evaluated through Intersection Capacity Utilization (ICU) analysis which compares the peak hour traffic volumes to intersection capacity (v/c). The ICU methodology is not applicable to unsignalized intersections. Intersection LOS operations will also be reported based on the Highway Capacity Manual (HCM) methodology which are based on an intersection's average control delay (in seconds) for both signalized and unsignalized intersections.

LEVEL OF SERVICE (LOS) CRITERIA

The definition of an intersection deficiency has been obtained from the City's General Plan. The City of Cypress has adopted a level of service (**LOS**) D or better as the desired citywide operating standard for most City streets. However, given the influence of regional traffic on Valley View Street, Lincoln Avenue, and Katella Avenue, which are beyond the control of the City of Cypress, LOS E or better has been adopted as the minimum operating LOS for street segments and intersections on the aforementioned arterials due to the high volume of traffic carried on these roadways.

THRESHOLDS OF DEFICIENCY

For the intersections that lie within the City of Cypress, determination of whether the Project has an adverse effect on intersection operations will be based on a comparison of without and with project levels of service.

For HCM Analysis: For signalized intersections, the traffic operations deficiency shall be determined in accordance with Table 6 below:

TABLE 6: HCM SIGNALIZED INTERSECTION DEFICIENCY CRITERIA

With Project LOS	Project-Related Increase in Delay (in seconds)
C or better	> 6.0 seconds
D	> 4.0 seconds
E, F	> 2.0 seconds

To determine whether a project's added traffic would result in a deficiency at a study area unsignalized intersection in accordance with the City's HCM methodology, the following criteria shall be applied:

a) Worsens the LOS at an unsignalized intersection from LOS D or better to LOS E or F;

b) Causes an increase in the delay equal to or more than three (3.0) seconds at an unsignalized intersection that operates at LOS E or F with project.

For ICU Analysis: a deficiency at both signalized study intersections will be determined in accordance with Table 7:

TABLE 7: ICU INTERSECTION DEFICIENCY CRITERIA

Without Project LOS	With Project Volume/Capacity (V/C) Ratio	With Project Level of Service
D	>0.900 or greater	LOS E or F
Without Project LOS	With Project Volume/Capacity (V/C) Ratio	Project-Related increase in V/C
E, F	>0.900 or greater	Equal to or greater than 0.03

Improvements: Any decrease beyond the minimum acceptable LOS due to the addition of project traffic requires alternative corrective measures to return the intersection to an acceptable LOS. For intersections operating below the minimum acceptable LOS prior to the addition of project traffic, and the LOS would be worsened with the addition of project traffic, corrective measures should be identified, if feasible, to return to "without project" condition LOS or V/C (volume/capacity ratio), whichever is greater. Alternative corrective measures to roadway widening which may include the reduction of project traffic volumes through application of signal system upgrades, phasing changes, synchronization, and/or project design improvements which are expected to improve capacity and/or efficiency withing the transportation network (e.g., changes to a project's site access or internal circulation scheme) shall be identified with concurrence from the City Traffic Engineer.

SPECIAL ISSUES

The following special issues will also be addressed as part of the focused traffic analysis:

- **Traffic Signal Warrant Analysis:** Traffic signal warrant analysis will be performed for all full-access unsignalized study area intersections utilizing the California MUTCD peak-hour warrants for existing intersections, and the Caltrans daily (Planning level) warrant for new intersections.
- **Left Turn Phasing:** The Traffic Study will also assess the north/south left-turn phasing at the intersection of Douglas Drive and Katella Avenue.
- **Site Access Evaluation/Queuing Analysis:** The turn pocket lengths will be determined through peak hour traffic simulations developed using Synchro and SimTraffic software in an effort to identify the required storage capacity for turn lanes at all Project driveways on Plaza Drive.
    - Site access evaluation will also identify the number of access points, on-site stacking distance, shared access with other adjacent property, potential turn restrictions (if applicable), adequate sight distance, driveway aisle widths, and any operational characteristics.
- **Left Turn Queuing Analysis:** For any study intersection where the project is anticipated to contribute 25 or more net new trips during the AM or PM peak hour, a left-turn queuing analysis shall be prepared for the subject study intersection to evaluate the project's potential effects on queuing in the public right-of-way with respect to safety and the overall intersection operations. The queuing analysis will be based on the project's peak hour vehicular trip generation forecasts and shall be prepared based on the HCM method. The 95th percentile queue for the left-turn movement at the study intersection will need to be identified during the peak hour time periods included in the LOS analysis.

The analysis will need to identify the length of the left-turn storage and evaluate if an adequate storage area exists to accommodate the maximum forecast back of queue for the future with project condition. Proposed development projects which are expected to cause or contribute towards exclusive turn-lane queuing which spills back into adjacent travel lanes or blocks adjacent intersections should identify corrective measures to improve queue management and/or storage, if feasible. For intersections which experience excessive exclusive turn-lane queuing prior to the addition of project traffic, and the queuing would be worsened with the addition of project traffic, corrective measures shall be identified, if feasible, including measures to reduce vehicle trips.

  - The Project will be required to evaluate the peak hour queues for the southbound left turn and right turn pockets at Douglas Drive on Katella Avenue (regardless of the project-related peak hour trip contribution to these movements).

- **Truck Access:** Prepare truck turn templates at the applicable Project driveways for the appropriate turning movements to ensure driveways are designed to accommodate the turning radius of heavy trucks. Truck turns will be assessed at the driveways on Plaza Drive but also will include internal circulation identifying the truck route/access to the truck docks.
  - Truck turn templates will be provided in the Traffic Study for the intersection of Plaza Drive/Douglas Drive knuckle with the Project driveways.
  - Truck turn templates will also be applied to the intersection of Douglas Drive and Katella Avenue for the eastbound left, southbound left, and southbound right turn lanes to identify if there are any modifications necessary to the infrastructure (e.g., median, etc.) to accommodate truck turns. If the analysis finds that protected left-turn phasing is required at the intersection Douglas Drive and Katella Avenue, the truck turn templates should account for simultaneous turns from the northbound and southbound left turn lanes (or make other applicable recommendations).
- **Active Transportation Network Review:** Potential impacts to public transit, pedestrian and bicycle facilities and travel will be identified. Inventory of the pedestrian infrastructure will include within ¼ mile radius: sidewalk and widths, crosswalks, crosswalk markings, pedestrian push-button, curb access ramps, tactile warning strips, curb extensions, pedestrian amenities, pedestrian lighting. Existing bicycle facilities will be identified including bicycle parking, amenities, etc. Inventory of the existing transit lines, bus stops, transit stations/facilities will also be identified. Transit route discussion will identify the hours of service, peak period headways, route number, and service provider.
- **Safety Analysis:** A safety assessment will be conducted for the signalized study intersections. Safety review will include:
  - Collection of collision history at the intersection and near-by roadway segments to identify crash trends (obtained through Statewide Integrated Traffic Records System). If there are 5 or more accidents per year within any of the last 3 years at the intersection, in person field observations will be conducted as part of the intersection safety review.
  - In field review will include, but is not limited to: qualitative descriptions of traffic flows during the peak and off-peak time periods, documentation of repeated violations of existing restrictions, documentation of any safety concerns at the intersection for

other non-motorized users (minors/children, seniors, pedestrians, bicyclists, handicap accessible, etc.), and will propose safety improvements/corrective measures.

- Evaluate the degradation of pedestrian and bicycle facilities due to the Project.
- Evaluation of multi-model conflict points due to the Project.
- Potential for increase in vehicular speeds.
- Project driveway sight distance evaluation.
- It is our understanding that the Project will be conditioned to eliminate the gap in the sidewalk between the sidewalk on the west side of Douglas Drive to the future sidewalk along the north side of Plaza Drive.
- Due to the added truck volumes on Douglas Drive the Project is likely to be conditioned as a safety measure (to be assessed as part of the Safety Analysis) to add a southbound near-side signal indication to improve visibility of the traffic signal modifications for auto drivers.

If you have any questions or comments, I can be reached at cso@urbanxroads.com.

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APPENDIX 1.2: SITE ADJACENT QUEUES

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Intersection: 1: Douglas Dr. & Katella Av.

Movement	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB	NB	NB
Directions Served	L	T	T	T	R	L	T	T	T	R	L	TR
Maximum Queue (ft)	96	413	386	305	106	47	440	396	319	163	61	21
Average Queue (ft)	35	200	175	110	13	14	218	189	139	19	18	5
95th Queue (ft)	75	363	331	249	52	42	398	369	310	88	47	18
Link Distance (ft)		785	785	785			922	922	922			367
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	250				100	250				130	115	
Storage Blk Time (%)		5		6			8		7			
Queuing Penalty (veh)		3		4			1		3			

Intersection: 1: Douglas Dr. & Katella Av.

Movement	SB	SB	SB
Directions Served	L	T	R
Maximum Queue (ft)	37	18	51
Average Queue (ft)	6	1	14
95th Queue (ft)	25	9	35
Link Distance (ft)		458	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	90		90
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 2: Douglas Dr./Driveway 1 & Driveway 2/Plaza Dr.

Movement	EB	WB	NB
Directions Served	LTR	LTR	LTR
Maximum Queue (ft)	31	55	55
Average Queue (ft)	9	30	27
95th Queue (ft)	32	48	51
Link Distance (ft)	164	191	458
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Zone Summary

Zone wide Queuing Penalty: 11

Intersection: 1: Douglas Dr. & Katella Av.

Movement	EB	EB	EB	EB	EB	WB	WB	WB	WB	WB	NB	NB
Directions Served	L	T	T	T	R	L	T	T	T	R	L	TR
Maximum Queue (ft)	64	453	422	342	62	123	403	369	313	119	92	21
Average Queue (ft)	19	229	200	142	8	12	209	182	129	6	41	5
95th Queue (ft)	49	394	360	284	35	66	359	330	267	52	80	18
Link Distance (ft)		785	785	785			922	922	922			367
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	250				100	250				130	115	
Storage Blk Time (%)		7		9			6		5		0	
Queuing Penalty (veh)		2		3			1		0		0	

Intersection: 1: Douglas Dr. & Katella Av.

Movement	SB	SB	SB
Directions Served	L	T	R
Maximum Queue (ft)	68	6	52
Average Queue (ft)	21	1	23
95th Queue (ft)	52	7	44
Link Distance (ft)		458	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	90		90
Storage Blk Time (%)	0		
Queuing Penalty (veh)	0		

Intersection: 2: Douglas Dr./Driveway 1 & Driveway 2/Plaza Dr.

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LTR	LTR
Maximum Queue (ft)	31	63	54	31
Average Queue (ft)	10	37	24	10
95th Queue (ft)	34	57	48	33
Link Distance (ft)	164	191	458	176
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Zone Summary

Zone wide Queuing Penalty: 6

APPENDIX 3.1: TRAFFIC COUNTS

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Volume Development
AM Peak Hour

1. Douglas Dr. & Katella Av.

PHF: 0.962 **7:00** Count Date: 8/30/2022

	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	TOTAL
Existing 2023:	17	2	5	2	1	12	27	1,653	61	9	1,684	34	3,507
2-Axle:	2	0	0	0	0	1	0	63	1	1	78	0	146
3-Axle:	0	0	0	0	0	0	0	3	2	0	13	0	18
4+-Axle:	4	0	0	0	0	1	0	7	4	1	23	0	40
2023 Trucks:	6	0	0	0	0	2	0	73	7	2	114	0	204
2023 PCE:	**26**	**2**	**5**	**2**	**1**	**15**	**27**	**1,702**	**72**	**12**	**1,782**	**34**	**3,678**
2023 ADT:		1,432			1,015			42,972			39,960		
2023 Pk-Daily:		8%			8%			8%			9%		
Project:	0	0	0	1	0	2	9	0	0	0	0	3	15
Project PCE:	0	0	0	3	0	5	10	0	0	0	0	3	21
Project ADT:		0			286			204			82		
Cumulative:	0	0	0	0	0	4	19	58	0	0	32	0	113
Cumulative PCE	0	0	0	0	0	7	21	58	0	0	32	0	118
Cumulative ADT:		0			272			2,440			2,168		
E+P:	17	2	5	3	1	14	36	1,653	61	9	1,684	37	3,522
E+P PCE:	26	2	5	5	1	20	37	1,702	72	12	1,782	37	3,699
E+P ADT:		1,432			1,301			43,176			40,042		
2025 NP:	18	2	5	2	1	16	47	1,778	63	9	1,784	35	3,762
2025 NP PCE:	27	2	5	2	1	22	49	1,828	74	12	1,886	35	3,945
2025 NP ADT:		1,490			1,328			47,148			43,743		
2025 WP:	18	2	5	3	1	18	56	1,778	63	9	1,784	38	3,777
2025 WP PCE:	27	2	5	5	1	27	59	1,828	74	12	1,886	38	3,966
2025 WP ADT:		1,490			1,614			47,352			43,825		

2. Driveway 2/Douglas Dr. & Driveway 1/Plaza Dr.

PHF: 0.864 **8:00** Count Date: 8/30/2022

	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	TOTAL
Existing 2023:	0	0	21	0	0	0	0	0	0	45	0	0	66
2-Axle:	0	0	0	0	0	0	0	0	0	1	0	0	1
3-Axle:	0	0	0	0	0	0	0	0	0	1	0	0	1
4+-Axle:	0	0	0	0	0	0	0	0	0	3	0	0	3
2023 Trucks:	0	0	0	0	0	0	0	0	0	5	0	0	5
2023 PCE:	**0**	**0**	**21**	**0**	**0**	**0**	**0**	**0**	**0**	**53**	**0**	**0**	**74**
2023 ADT:		1,365			0			0			1,365		
2023 Pk-Daily:		5%			0%			0%			5%		
Project:	5	7	0	0	0	0	0	1	3	0	3	2	21
Project PCE:	6	7	0	0	0	0	0	2	7	0	4	2	28
Project ADT:		286			158			250			122		
Cumulative:	0	4	15	0	0	0	0	0	0	3	0	3	25
Cumulative PCE	0	4	17	0	0	0	0	0	0	7	0	3	31
Cumulative ADT:		90			124			182			248		
E+P:	5	7	21	0	0	0	0	1	3	45	3	2	87
E+P PCE:	6	7	21	0	0	0	0	2	7	53	4	2	102
E+P ADT:		1,651			158			250			1,487		
2025 NP:	0	4	37	0	0	0	0	0	0	50	0	3	94
2025 NP PCE:	0	4	39	0	0	0	0	0	0	62	0	3	107
2025 NP ADT:		1,510			124			182			1,668		
2025 WP:	5	11	37	0	0	0	0	1	3	50	3	5	115
2025 WP PCE:	6	11	39	0	0	0	0	2	7	62	4	5	135
2025 WP ADT:		1,796			282			432			1,790		

Volume Development
AM Peak Hour

3. McDonnell Dr./Cara Wy. & Plaza Dr.

PHF: 0.852 **7:45** Count Date: 8/30/2022

	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	TOTAL
Existing 2023:	19	2	72	0	0	0	0	21	0	6	102	3	225
2-Axle:	0	0	0	0	0	0	0	3	0	0	1	1	5
3-Axle:	0	0	3	0	0	0	0	0	0	0	1	0	4
4+-Axle:	0	0	1	0	0	0	0	0	0	1	0	0	2
2023 Trucks:	0	0	4	0	0	0	0	3	0	1	2	1	11
2023 PCE:	**19**	**2**	**77**	**0**	**0**	**0**	**0**	**23**	**0**	**8**	**104**	**4**	**236**
2023 ADT:		338			34			1,917			802		
2023 Pk-Daily:		31%			16%			8%			27%		
Project:	1	0	0	0	0	0	0	1	0	0	5	0	7
Project PCE:	1	0	0	0	0	0	0	2	0	0	5	0	8
Project ADT:		14			0			122			108		
Cumulative:	0	1	35	1	0	0	0	15	0	6	9	6	73
Cumulative PCE	0	1	35	1	0	0	0	23	0	6	14	6	86
Cumulative ADT:		0			150			326			450		
E+P:	20	2	72	0	0	0	0	22	0	6	107	3	232
E+P PCE:	20	2	77	0	0	0	0	25	0	8	109	4	244
E+P ADT:		352			34			2,039			910		
2025 NP:	20	3	110	1	0	0	0	37	0	12	115	9	307
2025 NP PCE:	20	3	115	1	0	0	0	46	0	14	122	10	331
2025 NP ADT:		352			185			2,321			1,284		
2025 WP:	21	3	110	1	0	0	0	38	0	12	120	6	311
2025 WP PCE:	21	3	115	1	0	0	0	48	0	14	127	6	335
2025 WP ADT:		366			150			2,443			1,392		

4. Valley View St. & Plaza Dr.

PHF: 0.988 **7:45** Count Date: 8/30/2022

	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	TOTAL
Existing 2023:	21	1,473	181	254	1,487	150	9	3	14	12	0	37	3,641
2-Axle:	1	52	0	0	63	1	0	2	1	0	0	3	123
3-Axle:	0	1	0	0	14	1	0	3	0	0	0	0	19
4+-Axle:	0	8	0	0	9	1	0	1	0	0	0	0	19
2023 Trucks:	1	61	0	0	86	3	0	6	1	0	0	3	161
2023 PCE:	**22**	**1,516**	**181**	**254**	**1,551**	**154**	**9**	**9**	**15**	**12**	**0**	**39**	**3,760**
2023 ADT:		41,145			42,071			3,192			6,767		
2023 Pk-Daily:		8%			8%			7%			7%		
Project:	0	0	0	0	0	5	1	0	0	0	0	0	6
Project PCE:	0	0	0	0	0	5	2	0	0	0	0	0	7
Project ADT:		0			108			108			0		
Cumulative:	37	10	0	0	7	52	10	0	7	0	0	0	123
Cumulative PCE	40	10	0	0	7	54	12	0	12	0	0	0	135
Cumulative ADT:		336			1,054			846			544		
E+P:	21	1,473	181	254	1,487	155	10	3	14	12	0	37	3,647
E+P PCE:	22	1,516	181	254	1,551	159	11	9	15	12	0	39	3,767
E+P ADT:		41,145			42,179			3,300			6,767		
2025 NP:	59	1,543	188	264	1,554	208	19	3	22	12	0	38	3,911
2025 NP PCE:	62	1,587	188	264	1,620	214	21	9	27	12	0	40	4,046
2025 NP ADT:		43,143			44,825			4,167			7,585		
2025 WP:	59	1,543	188	264	1,554	213	20	3	22	12	0	38	3,917
2025 WP PCE:	62	1,587	188	264	1,620	219	23	9	27	12	0	40	4,053
2025 WP ADT:		43,143			44,933			4,275			7,585		

Volume Development
PM Peak Hour

1. Douglas Dr. & Katella Av.

		PHF:	0.894		4:30					Count Date:	8/30/2022		
	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	TOTAL
Existing 2023:	81	1	7	24	2	46	11	1,926	28	8	1,572	6	3,712
2-Axle:	0	0	0	0	0	1	0	50	0	1	35	0	87
3-Axle:	0	0	0	0	0	0	0	6	0	0	4	0	10
4+-Axle:	1	0	0	1	0	0	0	3	2	0	7	0	14
2023 Trucks:	1	0	0	1	0	1	0	59	2	1	46	0	111
2023 PCE:	**83**	**1**	**7**	**26**	**2**	**47**	**11**	**1,963**	**32**	**9**	**1,608**	**6**	**3,794**
2023 ADT:		1,432			1,015			**42,972**			39,960		
2023 Pk-Daily:		9%			9%			9%			9%		
Project:	0	0	0	3	0	9	4	0	0	0	0	2	18
Project PCE:	0	0	0	4	0	11	6	0	0	0	0	3	24
Project ADT:		0			286			204			82		
Cumulative:	0	0	0	0	0	19	5	62	0	0	83	0	169
Cumulative PCE	0	0	0	0	0	21	7	62	0	0	83	0	173
Cumulative ADT:		0			272			2,440			2,168		
E+P:	81	1	7	27	2	55	15	1,926	28	8	1,572	8	3,730
E+P PCE:	83	1	7	30	2	58	17	1,963	32	9	1,608	9	3,818
E+P ADT:		1,432			1,301			43,176			40,042		
2025 NP:	84	1	7	25	2	67	16	2,066	29	8	1,719	6	4,031
2025 NP PCE:	86	1	7	27	2	69	18	2,104	33	9	1,755	6	4,120
2025 NP ADT:		1,490			1,328			47,148			43,743		
2025 WP:	84	1	7	28	2	76	20	2,066	29	8	1,719	8	4,049
2025 WP PCE:	86	1	7	31	2	80	24	2,104	33	9	1,755	9	4,144
2025 WP ADT:		1,490			1,614			47,352			43,825		

2. Driveway 2/Douglas Dr. & Driveway 1/Plaza Dr.

		PHF:	0.750		5:00					Count Date:	8/30/2022		
	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	TOTAL
Existing 2023:	0	0	23	0	0	0	0	0	0	98	0	0	121
2-Axle:	0	0	1	0	0	0	0	0	0	3	0	0	4
3-Axle:	0	0	0	0	0	0	0	0	0	0	0	0	0
4+-Axle:	0	0	0	0	0	0	0	0	0	0	0	0	0
2023 Trucks:	0	0	1	0	0	0	0	0	0	3	0	0	4
2023 PCE:	**0**	**0**	**24**	**0**	**0**	**0**	**0**	**0**	**0**	**100**	**0**	**0**	**123**
2023 ADT:		1,365			0			0			1,365		
2023 Pk-Daily:		9%			0%			0%			9%		
Project:	3	2	0	2	6	0	0	3	5	0	1	1	23
Project PCE:	6	2	0	2	6	0	0	4	8	0	2	1	31
Project ADT:		286			158			250			122		
Cumulative:	0	1	4	3	4	0	0	0	0	15	0	1	28
Cumulative PCE	0	1	5	3	4	0	0	0	0	17	0	1	31
Cumulative ADT:		90			124			182			248		
E+P:	3	2	23	2	6	0	0	3	5	98	1	1	144
E+P PCE:	6	2	24	2	6	0	0	4	8	100	2	1	154
E+P ADT:		1,651			158			250			1,487		
2025 NP:	0	1	28	3	4	0	0	0	0	117	0	1	154
2025 NP PCE:	0	1	29	3	4	0	0	0	0	121	0	1	159
2025 NP ADT:		1,510			124			182			1,668		
2025 WP:	3	3	28	5	10	0	0	3	5	117	1	2	177
2025 WP PCE:	6	3	29	5	10	0	0	4	8	121	2	2	190
2025 WP ADT:		1,796			282			432			1,790		

Volume Development
PM Peak Hour

3. McDonnell Dr./Cara Wy. & Plaza Dr.

PHF: 0.625 4:45 Count Date: 8/30/2022

	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	TOTAL
Existing 2023:	5	0	9	0	3	0	0	85	2	11	78	0	193
2-Axle:	0	0	0	0	0	0	0	1	0	0	3	0	4
3-Axle:	0	0	0	0	0	0	0	0	0	0	0	0	0
4+-Axle:	0	0	0	0	0	0	0	0	0	0	0	0	0
2023 Trucks:	0	0	0	0	0	0	0	1	0	0	3	0	4
2023 PCE:	**5**	**0**	**9**	**0**	**3**	**0**	**0**	**86**	**2**	**11**	**80**	**0**	**195**
2023 ADT:		338			34			1,917			802		
2023 Pk-Daily:		9%			9%			9%			23%		
Project:	0	0	0	0	0	0	0	5	1	0	2	0	8
Project PCE:	0	0	0	0	0	0	0	6	1	0	3	0	10
Project ADT:		14			0			122			108		
Cumulative:	0	0	7	7	1	0	0	10	0	32	15	2	74
Cumulative PCE	0	0	7	7	1	0	0	14	0	32	19	2	82
Cumulative ADT:		0			150			326			450		
E+P:	5	0	9	0	3	0	0	90	3	11	80	0	201
E+P PCE:	5	0	9	0	3	0	0	92	3	11	83	0	205
E+P ADT:		352			34			2,039			910		
2025 NP:	5	0	16	7	4	0	0	98	2	43	96	2	275
2025 NP PCE:	5	0	16	7	4	0	0	103	2	43	102	2	285
2025 NP ADT:		352			185			2,321			1,284		
2025 WP:	5	0	16	7	1	0	0	103	3	43	98	2	280
2025 WP PCE:	5	0	16	7	1	0	0	109	3	43	105	2	292
2025 WP ADT:		366			150			2,443			1,392		

4. Valley View St. & Plaza Dr.

PHF: 0.957 4:30 Count Date: 8/30/2022

	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	TOTAL
Existing 2023:	4	1,932	12	49	1,484	23	168	0	60	156	28	355	4,271
2-Axle:	0	34	0	6	18	0	0	0	1	0	3	0	62
3-Axle:	0	6	0	0	4	0	0	0	0	0	0	0	10
4+-Axle:	0	6	0	0	3	0	0	0	0	3	0	0	12
2023 Trucks:	0	46	0	6	25	0	0	0	1	3	3	0	84
2023 PCE:	**4**	**1,967**	**12**	**52**	**1,503**	**23**	**168**	**0**	**61**	**162**	**30**	**355**	**4,336**
2023 ADT:		41,145			42,071			3,192			6,767		
2023 Pk-Daily:		9%			10%			9%			9%		
Project:	0	0	0	0	0	2	5	0	0	0	0	0	7
Project PCE:	0	0	0	0	0	3	6	0	0	0	0	0	9
Project ADT:		0			108			108			0		
Cumulative:	10	15	0	0	18	12	49	0	36	0	0	0	140
Cumulative PCE	12	15	0	0	18	13	51	0	39	0	0	0	148
Cumulative ADT:		336			1,054			846			544		
E+P:	4	1,932	12	49	1,484	25	173	0	60	156	28	355	4,278
E+P PCE:	4	1,967	12	52	1,503	26	174	0	61	162	30	355	4,345
E+P ADT:		41,145			42,179			3,300			6,767		
2025 NP:	14	2,025	12	51	1,562	36	224	0	98	162	29	369	4,584
2025 NP PCE:	16	2,061	12	54	1,582	37	226	0	102	169	31	369	4,659
2025 NP ADT:		43,143			44,825			4,167			7,585		
2025 WP:	14	2,025	12	51	1,562	38	229	0	98	162	29	369	4,591
2025 WP PCE:	16	2,061	12	54	1,582	40	232	0	102	169	31	369	4,668
2025 WP ADT:		43,143			44,933			4,275			7,585		

T42321

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Aug 30, 22

LOCATION: Cypress
NORTH & SOUTH: Douglas
EAST & WEST: Katella

PROJECT #: SC3604
LOCATION #: 1
CONTROL: SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

Add U-Turns to Left Turns

		NORTHBOUND (Douglas)			SOUTHBOUND (Douglas)			EASTBOUND (Katella)			WESTBOUND (Katella)			
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 1	EL 1	ET 3	ER 1	WL 1	WT 3	WR 1	TOTAL
AM	7:00 AM	5	0	1	0	0	3	8	293	15	1	275	1	602
AM	7:15 AM	4	1	0	2	1	3	2	318	20	2	402	3	758
AM	7:30 AM	3	0	0	0	0	1	2	385	8	3	415	5	822
AM	7:45 AM	6	0	2	0	0	2	5	419	15	2	429	5	885
AM	8:00 AM	6	2	2	1	1	2	6	427	27	4	404	12	894
AM	8:15 AM	2	0	1	1	0	7	13	390	10	0	403	11	838
AM	8:30 AM	7	0	0	1	0	2	10	339	10	6	374	9	758
AM	8:45 AM	5	1	0	0	0	2	4	324	16	4	332	5	693
AM	VOLUMES	38	4	6	5	2	22	50	2,895	121	22	3,034	51	6,250
AM	APPROACH %	79%	8%	13%	17%	7%	76%	2%	94%	4%	1%	98%	2%	
AM	APP/DEPART	48	/	101	29	/	142	3,066	/	2,909	3,107	/	3,098	0
AM	BEGIN PEAK HR		7:30 AM											
AM	VOLUMES	17	2	5	2	1	12	26	1,621	60	9	1,651	33	3,439
AM	APPROACH %	71%	8%	21%	13%	7%	80%	2%	95%	4%	1%	98%	2%	
AM	PEAK HR FACTOR		0.600			0.469			0.928			0.971		0.962
AM	APP/DEPART	24	/	59	15	/	69	1,707	/	1,629	1,693	/	1,682	0
PM	4:00 PM	24	0	4	9	0	10	3	451	5	1	333	0	838
PM	4:15 PM	14	1	3	4	0	8	4	476	6	3	305	1	825
PM	4:30 PM	23	1	2	6	0	9	2	449	7	0	375	2	876
PM	4:45 PM	20	0	2	6	0	5	3	432	9	2	378	0	857
PM	5:00 PM	16	0	3	5	1	22	5	522	4	5	433	2	1,018
PM	5:15 PM	20	0	0	7	1	9	1	485	7	1	355	2	888
PM	5:30 PM	8	1	2	4	0	14	3	452	4	3	378	1	870
PM	5:45 PM	9	0	0	5	0	6	3	426	7	0	334	1	791
PM	VOLUMES	134	3	16	46	2	83	24	3,693	47	15	2,891	9	6,963
PM	APPROACH %	88%	2%	10%	35%	2%	63%	1%	98%	1%	1%	99%	0%	
PM	APP/DEPART	153	/	19	131	/	57	3,764	/	3,762	2,915	/	3,125	0
PM	BEGIN PEAK HR		4:30 PM											
PM	VOLUMES	79	1	7	24	2	45	11	1,888	27	8	1,541	6	3,639
PM	APPROACH %	91%	1%	8%	34%	3%	63%	1%	98%	1%	1%	99%	0%	
PM	PEAK HR FACTOR		0.837			0.634			0.907			0.884		0.894
PM	APP/DEPART	87	/	8	71	/	32	1,926	/	1,924	1,555	/	1,675	0

U-TURNS

NB 0	SB 0	EB 0	WB 0	TTL
0	0	2	0	2
0	0	0	0	0
0	0	0	0	0
0	0	0	1	1
0	0	0	0	0
0	0	2	0	2
0	0	0	2	2
0	0	0	0	0
0	0	4	3	7
0	0	2	0	2
0	0	1	0	1
0	0	2	0	2
0	0	3	1	4
0	0	4	4	8
0	0	1	0	1
0	0	2	2	4
0	0	2	0	2
0	0	17	7	24

RTOR

NRR 0	SRR 0	ERR 0	WRR 0
1	3	0	1
0	3	3	0
0	1	1	1
1	2	3	0
2	1	3	4
0	6	1	0
0	1	0	0
0	2	0	0
4	19	11	6
3	10	8	5
2	4	0	0
3	8	0	0
1	6	1	0
2	5	3	0
1	13	1	0
0	6	0	0
1	12	0	0
0	4	0	1
10	58	5	1
4	30	5	0

Douglas

NORTH SIDE

Katella WEST SIDE EAST SIDE **Katella**

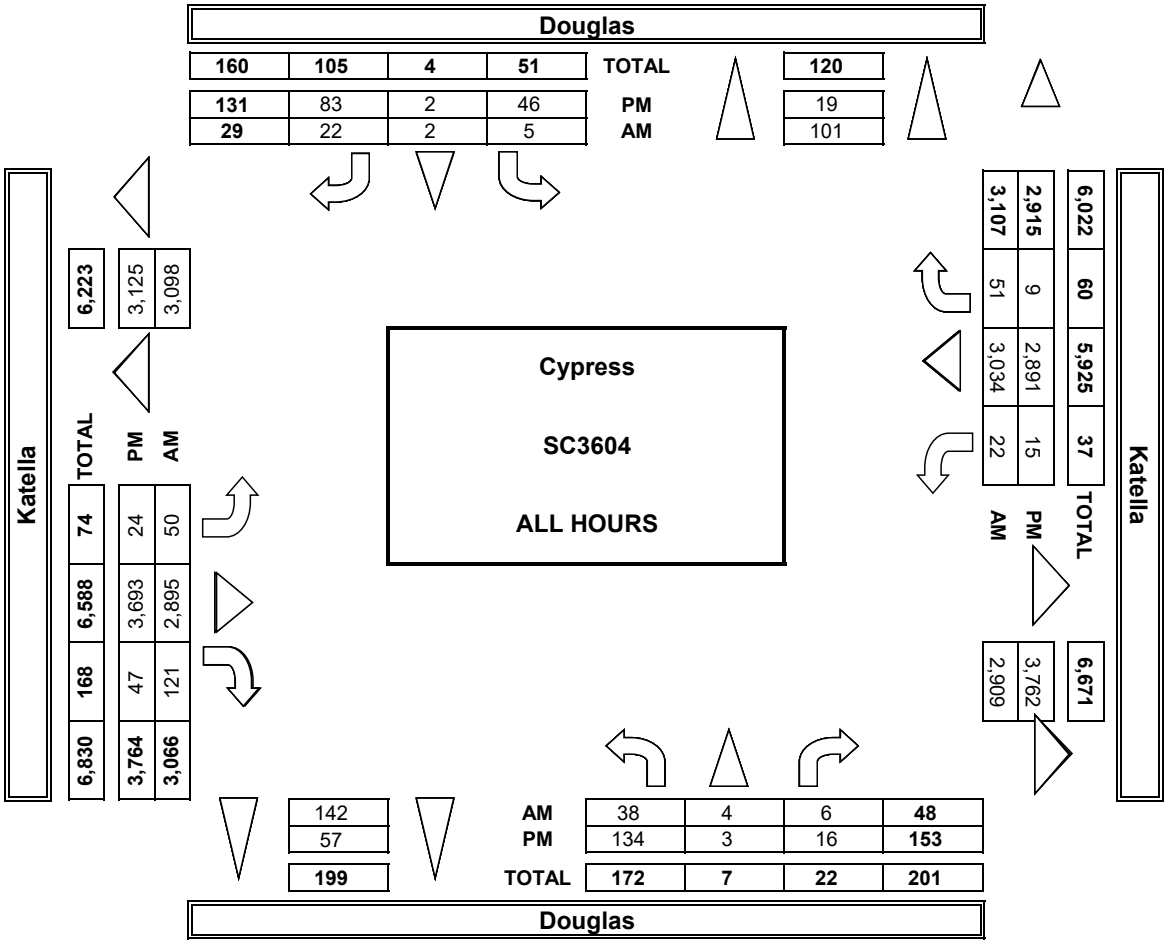
SOUTH SIDE

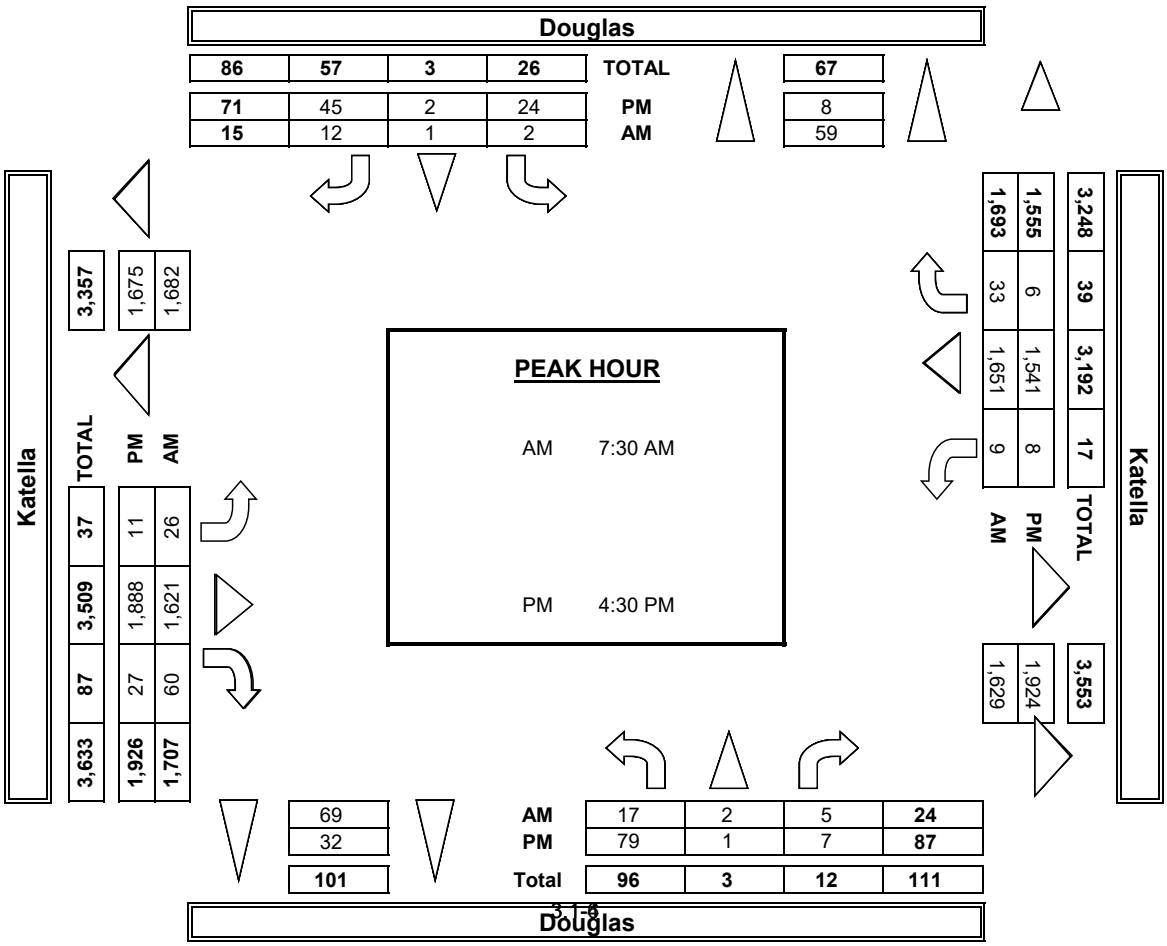
Douglas

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	ES	WS	SS	NS	TOTAL
AM	7:00 AM	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0
AM	7:15 AM	1	0	0	1	2	1	0	0	1	2	0	0	0	0	0
AM	7:30 AM	3	1	2	3	9	0	0	0	0	0	3	1	2	3	9
AM	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	8:00 AM	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0
AM	8:15 AM	0	0	1	1	2	0	0	0	0	0	0	0	1	1	2
AM	8:30 AM	0	0	3	0	3	0	0	2	0	2	0	0	1	0	1
AM	8:45 AM	0	0	1	1	2	0	0	0	0	0	0	0	1	1	2
AM	TOTAL	4	2	8	6	20	1	1	3	1	6	3	1	5	5	14
PM	4:00 PM	1	0	0	1	2	1	0	0	0	1	0	0	0	1	1
PM	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:30 PM	0	0	2	0	2	0	0	1	0	1	0	0	1	0	1
PM	4:45 PM	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2
PM	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:15 PM	0	1	0	2	3	0	0	0	1	1	0	1	0	1	2
PM	5:30 PM	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
PM	5:45 PM	0	0	2	0	2	0	0	1	0	1	0	0	1	0	1
	TOTAL	2	1	6	3	12	1	0	2	1	4	1	1	4	2	8

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Cypress	PROJECT #:	SC3604
8/30/22	NORTH & SOUTH:	Douglas	LOCATION #:	1
TUESDAY	EAST & WEST:	Katella	CONTROL:	SIGNAL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS	NOTES:	AM PM MD OTHER OTHER	▲ N ◄ W E ► S ▼

		NORTHBOUND Douglas			SOUTHBOUND Douglas			EASTBOUND Katella			WESTBOUND Katella			
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 1	EL 1	ET 3	ER 1	WL 1	WT 3	WR 1	TOTAL
AM	7:00 AM	1	0	0	0	0	0	2	17	0	0	12	0	32
	7:15 AM	0	0	0	1	0	0	0	11	2	0	20	0	34
	7:30 AM	0	0	0	0	0	1	0	14	0	1	31	0	47
	7:45 AM	2	0	0	0	0	0	0	14	0	0	13	0	29
	8:00 AM	0	0	0	0	0	0	0	19	1	0	18	0	38
	8:15 AM	0	0	0	0	0	0	1	15	0	0	14	0	30
	8:30 AM	0	0	0	0	0	0	0	16	1	0	21	0	38
	8:45 AM	1	0	0	0	0	0	0	16	2	0	19	0	38
	VOLUMES	4	0	0	1	0	1	3	122	6	1	148	0	286
	APPROACH %	100%	0%	0%	50%	0%	50%	2%	93%	5%	1%	99%	0%	
	APP/DEPART	4	/	2	2	/	7	131	/	123	149	/	154	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	2	0	0	0	0	1	0	62	1	1	76	0	144
	APPROACH %	100%	0%	0%	0%	0%	100%	0%	97%	2%	1%	99%	0%	
	PEAK HR FACTOR		0.250			0.250			0.800			0.602		0.766
	APP/DEPART	2	/	0	1	/	2	64	/	62	77	/	80	0
PM	4:00 PM	0	0	0	0	0	0	1	17	0	0	9	0	27
	4:15 PM	0	0	0	0	0	0	0	13	0	0	9	1	23
	4:30 PM	0	0	0	0	0	0	0	9	0	0	12	0	21
	4:45 PM	0	0	0	0	0	0	0	7	0	0	4	0	11
	5:00 PM	0	0	0	0	0	1	0	16	0	1	10	0	28
	5:15 PM	0	0	0	0	0	0	0	17	0	0	8	0	25
	5:30 PM	0	0	0	0	0	0	0	9	0	0	2	0	11
	5:45 PM	0	0	0	0	0	0	0	6	0	0	5	0	11
	VOLUMES	0	0	0	0	0	1	1	94	0	1	59	1	157
	APPROACH %	0%	0%	0%	0%	0%	100%	1%	99%	0%	2%	97%	2%	
	APP/DEPART	0	/	1	1	/	1	95	/	94	61	/	61	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	0	0	0	0	0	1	0	49	0	1	34	0	85
	APPROACH %	0%	0%	0%	0%	0%	100%	0%	100%	0%	3%	97%	0%	
	PEAK HR FACTOR		0.000			0.250			0.721			0.729		0.759
	APP/DEPART	0	/	0	1	/	1	49	/	49	35	/	35	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	1	0	1
0	0	0	0	0
0	0	0	0	0
0	0	1	0	1
0	0	1	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	1	0	1

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	0	1	0
0	1	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	1	1	0
0	1	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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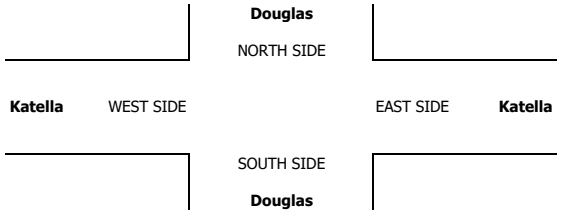
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Cypress	PROJECT #:	SC3604
8/30/22	NORTH & SOUTH:	Douglas	LOCATION #:	1
TUESDAY	EAST & WEST:	Katella	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

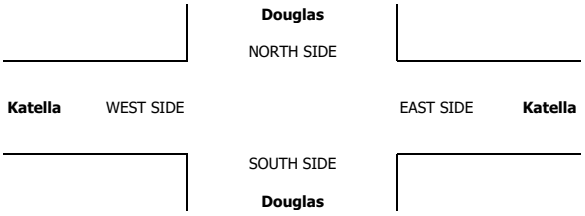
		NORTHBOUND (Douglas)			SOUTHBOUND (Douglas)			EASTBOUND (Katella)			WESTBOUND (Katella)			
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 1	EL 1	ET 3	ER 1	WL 1	WT 3	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
	7:15 AM	0	0	0	0	0	0	0	0	0	0	2	0	2
	7:30 AM	0	0	0	0	0	0	0	1	0	0	1	0	2
	7:45 AM	0	0	0	0	0	0	0	1	0	0	4	0	5
	8:00 AM	0	0	0	0	0	0	0	1	2	0	6	0	9
	8:15 AM	0	0	0	0	0	0	0	0	0	0	2	0	2
	8:30 AM	0	0	0	0	0	0	0	1	0	0	3	0	4
	8:45 AM	1	0	0	0	0	0	0	11	0	0	2	0	14
	VOLUMES	1	0	0	0	0	0	0	15	2	0	21	0	39
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	88%	12%	0%	100%	0%	
	APP/DEPART	1	/	0	0	/	2	17	/	15	21	/	22	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	0	0	0	0	0	0	0	3	2	0	13	0	18
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	60%	40%	0%	100%	0%	
	PEAK HR FACTOR		0.000			0.000			0.417			0.542		0.500
	APP/DEPART	0	/	0	0	/	2	5	/	3	13	/	13	0
PM	4:00 PM	0	0	0	0	0	0	0	5	0	0	1	0	6
	4:15 PM	0	0	0	0	0	0	0	3	0	0	1	0	4
	4:30 PM	0	0	0	0	0	0	0	1	0	0	2	0	3
	4:45 PM	0	0	0	0	0	0	0	3	0	0	2	0	5
	5:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
	5:15 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
	5:30 PM	0	0	0	0	0	0	0	3	0	0	0	0	3
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	17	0	0	6	0	23
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%	
	APP/DEPART	0	/	0	0	/	0	17	/	17	6	/	6	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	0	0	0	0	0	0	0	6	0	0	4	0	10
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%	
	PEAK HR FACTOR		0.000			0.000			0.500			0.500		0.500
	APP/DEPART	0	/	0	0	/	0	6	/	6	4	/	4	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Cypress	PROJECT #:	SC3604
8/30/22	NORTH & SOUTH:	Douglas	LOCATION #:	1
TUESDAY	EAST & WEST:	Katella	CONTROL:	SIGNAL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

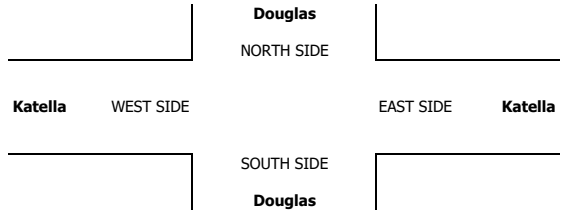
	NORTHBOUND (Douglas)			SOUTHBOUND (Douglas)			EASTBOUND (Katella)			WESTBOUND (Katella)			
LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 1	EL 1	ET 3	ER 1	WL 1	WT 3	WR 1	TOTAL
7:00 AM	3	0	0	0	0	0	0	2	2	0	5	0	12
7:15 AM	0	0	0	0	0	0	0	2	2	0	2	0	6
7:30 AM	1	0	0	0	0	0	0	2	1	1	5	0	10
7:45 AM	1	0	0	0	0	0	0	2	1	0	5	0	9
8:00 AM	2	0	0	0	0	0	0	1	1	0	9	0	13
8:15 AM	0	0	0	0	0	1	0	2	1	0	4	0	8
8:30 AM	2	0	0	0	0	0	0	6	1	0	7	0	16
8:45 AM	1	0	0	0	0	0	0	6	0	0	5	0	12
VOLUMES	10	0	0	0	0	1	0	23	9	1	42	0	86
APPROACH %	100%	0%	0%	0%	0%	100%	0%	72%	28%	2%	98%	0%	
APP/DEPART	10	/	0	1	/	10	32	/	23	43	/	53	0
BEGIN PEAK HR	7:30 AM												
VOLUMES	4	0	0	0	0	1	0	7	4	1	23	0	40
APPROACH %	100%	0%	0%	0%	0%	100%	0%	64%	36%	4%	96%	0%	
PEAK HR FACTOR	0.500			0.250			0.917			0.667			0.769
APP/DEPART	4	/	0	1	/	5	11	/	7	24	/	28	0
4:00 PM	0	0	0	0	0	0	0	2	0	1	5	0	8
4:15 PM	0	0	0	0	0	0	0	1	0	1	2	0	4
4:30 PM	1	0	0	0	0	0	0	0	0	0	3	0	4
4:45 PM	0	0	0	1	0	0	0	1	2	0	4	0	8
5:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
5:15 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
5:45 PM	0	0	0	0	0	0	0	2	0	0	1	0	3
VOLUMES	1	0	0	1	0	0	0	8	2	2	16	0	30
APPROACH %	100%	0%	0%	100%	0%	0%	0%	80%	20%	11%	89%	0%	
APP/DEPART	1	/	0	1	/	4	10	/	9	18	/	17	0
BEGIN PEAK HR	4:30 PM												
VOLUMES	1	0	0	1	0	0	0	3	2	0	7	0	14
APPROACH %	100%	0%	0%	100%	0%	0%	0%	60%	40%	0%	100%	0%	
PEAK HR FACTOR	0.250			0.250			0.417			0.438			0.438
APP/DEPART	1	/	0	1	/	2	5	/	4	7	/	8	0

U-TURNS

	NB	SB	EB	WB	TTL
AM	0	0	0	0	0
PM	0	0	0	0	0

RTOR

	NRR	SRR	ERR	WRR
AM	0	0	0	0
PEAK HR	0	0	0	0
PM	0	0	0	0
PEAK HR	0	0	0	0



T42321

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Aug 30, 22

LOCATION: Cypress
NORTH & SOUTH: Driveway 1
EAST & WEST: Plaza

PROJECT #: SC3604
LOCATION #: 2
CONTROL: NO CONTROL

NOTES:

AM
PM
MD
OTHER
OTHER

N ▲ | ◄ W | E ► | S ▼

Add U-Turns to Left Turns

		NORTHBOUND Driveway 1			SOUTHBOUND Driveway 1			EASTBOUND Plaza			WESTBOUND Plaza			
	LANES:	NL X	NT X	NR X	SL 0	ST X	SR 0	EL 0	ET 1	ER X	WL X	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	1	0	0	0	0	0	0	4	1	6
	7:15 AM	0	0	0	1	0	0	1	0	0	0	5	0	7
	7:30 AM	0	0	0	0	0	1	0	0	0	0	3	0	4
	7:45 AM	0	0	0	0	0	0	0	0	0	0	5	0	5
	8:00 AM	0	0	0	0	0	0	0	1	0	0	10	0	11
	8:15 AM	0	0	0	0	0	2	1	0	0	0	6	0	9
	8:30 AM	0	0	0	0	0	0	1	1	0	0	6	0	8
	8:45 AM	0	0	0	0	0	0	0	1	0	0	9	0	10
	VOLUMES	0	0	0	2	0	3	3	3	0	0	48	1	60
	APPROACH %	0%	0%	0%	40%	0%	60%	50%	50%	0%	0%	98%	2%	
	APP/DEPART	0	/	4	5	/	0	6	/	5	49	/	51	0
	BEGIN PEAK HR		8:00 AM											
	VOLUMES	0	0	0	0	0	2	2	3	0	0	31	0	38
	APPROACH %	0%	0%	0%	0%	0%	100%	40%	60%	0%	0%	100%	0%	
	PEAK HR FACTOR		0.000			0.250			0.625			0.775		0.864
	APP/DEPART	0	/	2	2	/	0	5	/	3	31	/	33	0
PM	4:00 PM	0	0	0	0	0	0	0	1	0	0	9	0	10
	4:15 PM	0	0	0	0	0	2	0	6	0	0	2	0	10
	4:30 PM	0	0	0	0	0	0	0	2	0	0	5	0	7
	4:45 PM	0	0	0	0	0	1	0	0	0	0	5	0	6
	5:00 PM	0	0	0	0	0	2	0	6	0	0	7	1	16
	5:15 PM	0	0	0	0	0	1	0	8	0	0	3	0	12
	5:30 PM	0	0	0	0	0	1	0	4	0	0	5	1	11
	5:45 PM	0	0	0	1	0	1	0	5	0	0	2	0	9
	VOLUMES	0	0	0	1	0	8	0	32	0	0	38	2	81
	APPROACH %	0%	0%	0%	11%	0%	89%	0%	100%	0%	0%	95%	5%	
	APP/DEPART	0	/	2	9	/	0	32	/	33	40	/	46	0
	BEGIN PEAK HR		5:00 PM											
	VOLUMES	0	0	0	1	0	5	0	23	0	0	17	2	48
	APPROACH %	0%	0%	0%	17%	0%	83%	0%	100%	0%	0%	89%	11%	
	PEAK HR FACTOR		0.000			0.750			0.719			0.594		0.750
	APP/DEPART	0	/	2	6	/	0	23	/	24	19	/	22	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Driveway 1
NORTH SIDE

Plaza WEST SIDE EAST SIDE **Plaza**

SOUTH SIDE
Driveway 1

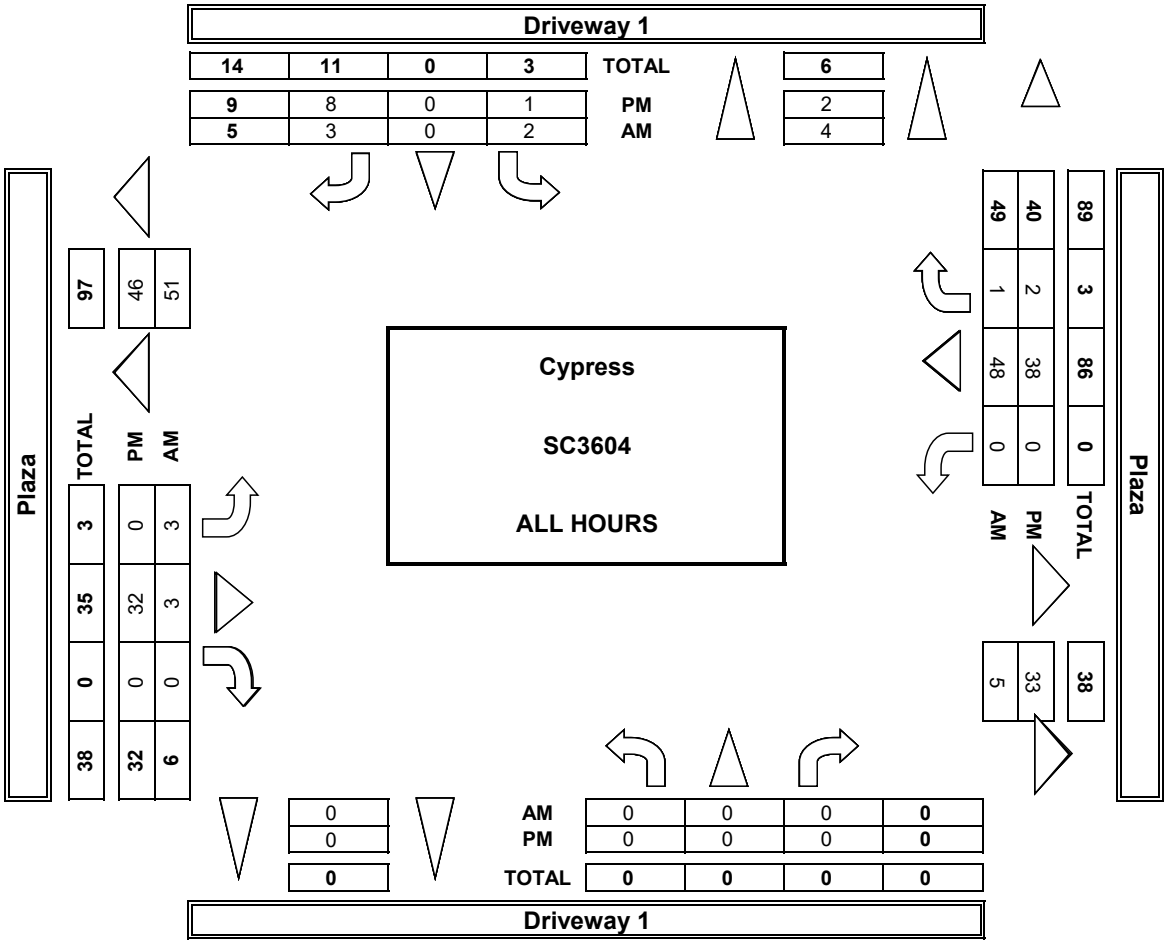
		ALL PED AND BIKE				
		E SIDE	W SIDE	S SIDE	N SIDE	TOTAL
AM	7:00 AM	0	0	0	0	0
	7:15 AM	0	0	0	0	0
	7:30 AM	0	0	0	0	0
	7:45 AM	0	0	0	0	0
	8:00 AM	0	0	0	0	0
	8:15 AM	0	0	0	0	0
	8:30 AM	0	0	0	0	0
	8:45 AM	0	0	0	0	0
	TOTAL	0	0	0	0	0
PM	4:00 PM	0	0	0	0	0
	4:15 PM	0	0	0	0	0
	4:30 PM	0	0	0	0	0
	4:45 PM	0	0	0	0	0
	5:00 PM	0	0	0	0	0
	5:15 PM	0	0	0	0	0
	5:30 PM	0	0	0	0	0
	5:45 PM	0	0	0	0	0
	TOTAL	0	0	0	0	0

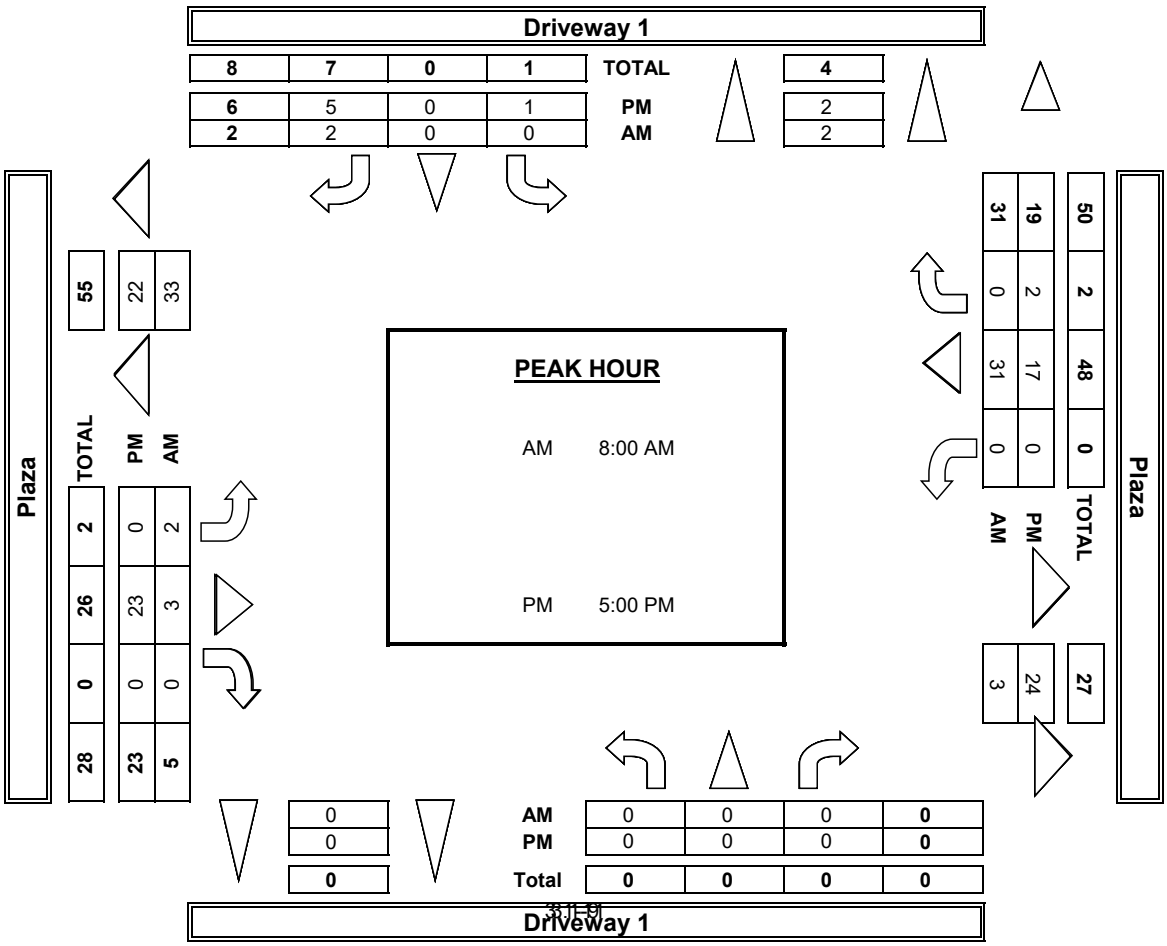
PEDESTRIAN CROSSINGS				
E SIDE	W SIDE	S SIDE	N SIDE	TOTAL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

BICYCLE CROSSINGS				
ES	WS	SS	NS	TOTAL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Cypress	PROJECT #:	SC3604
8/30/22	NORTH & SOUTH:	Driveway 1	LOCATION #:	2
TUESDAY	EAST & WEST:	Plaza	CONTROL:	NO CONTROL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND Driveway 1			SOUTHBOUND Driveway 1			EASTBOUND Plaza			WESTBOUND Plaza			
	LANES:	NL X	NT X	NR X	SL 0	ST X	SR 0	EL 0	ET 1	ER X	WL X	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	1	0	0	0	0	0	1
	7:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	1
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	1	1	0	0	0	0	0	2
	APPROACH %	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	1	1	/	0	1	/	0	0	/	1	0
	BEGIN PEAK HR		8:00 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	1	0	0	1	0	2
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%	
	APP/DEPART	0	/	0	0	/	0	1	/	1	1	/	1	0
	BEGIN PEAK HR		5:00 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	1	0	1
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.250		0.250
	APP/DEPART	0	/	0	0	/	0	0	/	0	1	/	1	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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0	0	0	0
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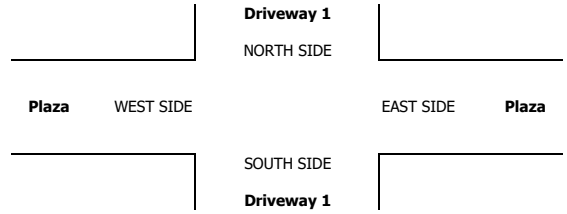
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Cypress	PROJECT #:	SC3604
8/30/22	NORTH & SOUTH:	Driveway 1	LOCATION #:	2
TUESDAY	EAST & WEST:	Plaza	CONTROL:	NO CONTROL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Driveway 1			SOUTHBOUND Driveway 1			EASTBOUND Plaza			WESTBOUND Plaza			
	LANES:	NL X	NT X	NR X	SL 0	ST X	SR 0	EL 0	ET 1	ER X	WL X	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		8:00 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		5:00 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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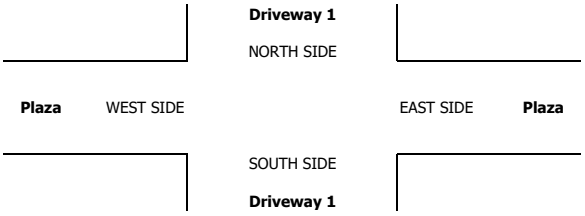
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Cypress	PROJECT #:	SC3604
8/30/22	NORTH & SOUTH:	Driveway 1	LOCATION #:	2
TUESDAY	EAST & WEST:	Plaza	CONTROL:	NO CONTROL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND Driveway 1			SOUTHBOUND Driveway 1			EASTBOUND Plaza			WESTBOUND Plaza			
LANES:	NL X	NT X	NR X	SL 0	ST X	SR 0	EL 0	ET 1	ER X	WL X	WT 1	WR 0	TOTAL
7:00 AM	0	0	0	1	0	0	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
AM VOLUMES	0	0	0	1	0	1	0	0	0	0	0	0	2
AM APPROACH %	0%	0%	0%	50%	0%	50%	0%	0%	0%	0%	0%	0%	
AM APP/DEPART	0	/	0	2	/	0	0	/	1	0	/	1	0
BEGIN PEAK HR		8:00 AM											
AM VOLUMES	0	0	0	0	0	1	0	0	0	0	0	0	1
AM APPROACH %	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	
PEAK HR FACTOR		0.000			0.250			0.000			0.000		0.250
AM APP/DEPART	0	/	0	1	/	0	0	/	0	0	/	1	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
PM VOLUMES	0	0	0	0	0	1	0	0	0	0	0	0	1
PM APPROACH %	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	
PM APP/DEPART	0	/	0	1	/	0	0	/	0	0	/	1	0
BEGIN PEAK HR		5:00 PM											
PM VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
PM APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
PM APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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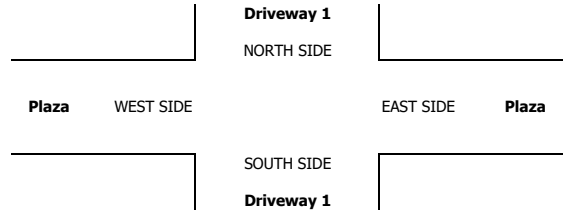
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



T42321

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Aug 30, 22

LOCATION: Cypress
NORTH & SOUTH: McDonnell
EAST & WEST: Plaza

PROJECT #: SC3604
LOCATION #: 4
CONTROL: STOP N

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

Add U-Turns to Left Turns

		NORTHBOUND (McDonnell)			SOUTHBOUND (McDonnell)			EASTBOUND (Plaza)			WESTBOUND (Plaza)			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	4	1	5	0	0	0	0	2	0	1	10	0	23
	7:15 AM	7	0	2	0	0	0	0	0	0	1	7	0	17
	7:30 AM	2	0	2	0	0	0	0	1	0	0	5	0	10
	7:45 AM	4	0	10	0	0	0	0	0	0	3	9	1	27
	8:00 AM	8	1	6	0	0	0	0	1	0	2	14	0	32
	8:15 AM	3	0	9	0	0	0	0	0	0	1	15	0	28
	8:30 AM	4	1	7	0	0	0	0	2	0	0	8	0	22
	8:45 AM	1	0	5	0	0	0	0	2	0	0	8	0	16
	VOLUMES	33	3	46	0	0	0	0	8	0	8	76	1	175
	APPROACH %	40%	4%	56%	0%	0%	0%	0%	100%	0%	9%	89%	1%	
	APP/DEPART	82	/	4	0	/	23	8	/	54	85	/	94	0
	BEGIN PEAK HR		7:45 AM											
	VOLUMES	19	2	32	0	0	0	0	3	0	6	46	1	109
	APPROACH %	36%	4%	60%	0%	0%	0%	0%	100%	0%	11%	87%	2%	
	PEAK HR FACTOR		0.883			0.000			0.375			0.828		0.852
	APP/DEPART	53	/	3	0	/	12	3	/	35	53	/	59	0
PM	4:00 PM	3	0	0	1	0	0	0	9	1	0	6	0	20
	4:15 PM	2	0	1	0	0	0	1	8	2	1	1	0	16
	4:30 PM	0	0	4	0	0	0	0	10	0	1	1	0	16
	4:45 PM	1	0	0	0	0	0	0	4	0	1	5	0	11
	5:00 PM	1	0	0	0	1	0	0	22	1	5	4	0	34
	5:15 PM	1	0	2	0	0	0	0	8	0	1	5	0	17
	5:30 PM	3	0	4	0	0	0	0	8	0	3	5	0	23
	5:45 PM	0	0	3	0	0	0	0	5	1	2	0	0	11
	VOLUMES	11	0	14	1	1	0	1	74	5	14	27	0	148
	APPROACH %	44%	0%	56%	50%	50%	0%	1%	93%	6%	34%	66%	0%	
	APP/DEPART	25	/	1	2	/	26	80	/	89	41	/	32	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	5	0	9	0	1	0	0	43	2	11	14	0	85
	APPROACH %	36%	0%	64%	0%	100%	0%	0%	96%	4%	44%	56%	0%	
	PEAK HR FACTOR		0.500			0.250			0.489			0.694		0.625
	APP/DEPART	14	/	0	1	/	19	45	/	52	25	/	14	0

U-TURNS

NB 0	SB 0	EB 0	WB 0	TTL
3	0	0	0	3
4	0	0	0	4
2	0	0	0	2
1	0	0	0	1
1	0	0	0	1
2	0	0	0	2
2	0	0	0	2
0	0	0	0	0
15	0	0	0	15
1	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	1
1	0	0	0	1
3	0	0	0	3
0	0	0	0	0
6	0	0	0	6

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

McDonnell
NORTH SIDE

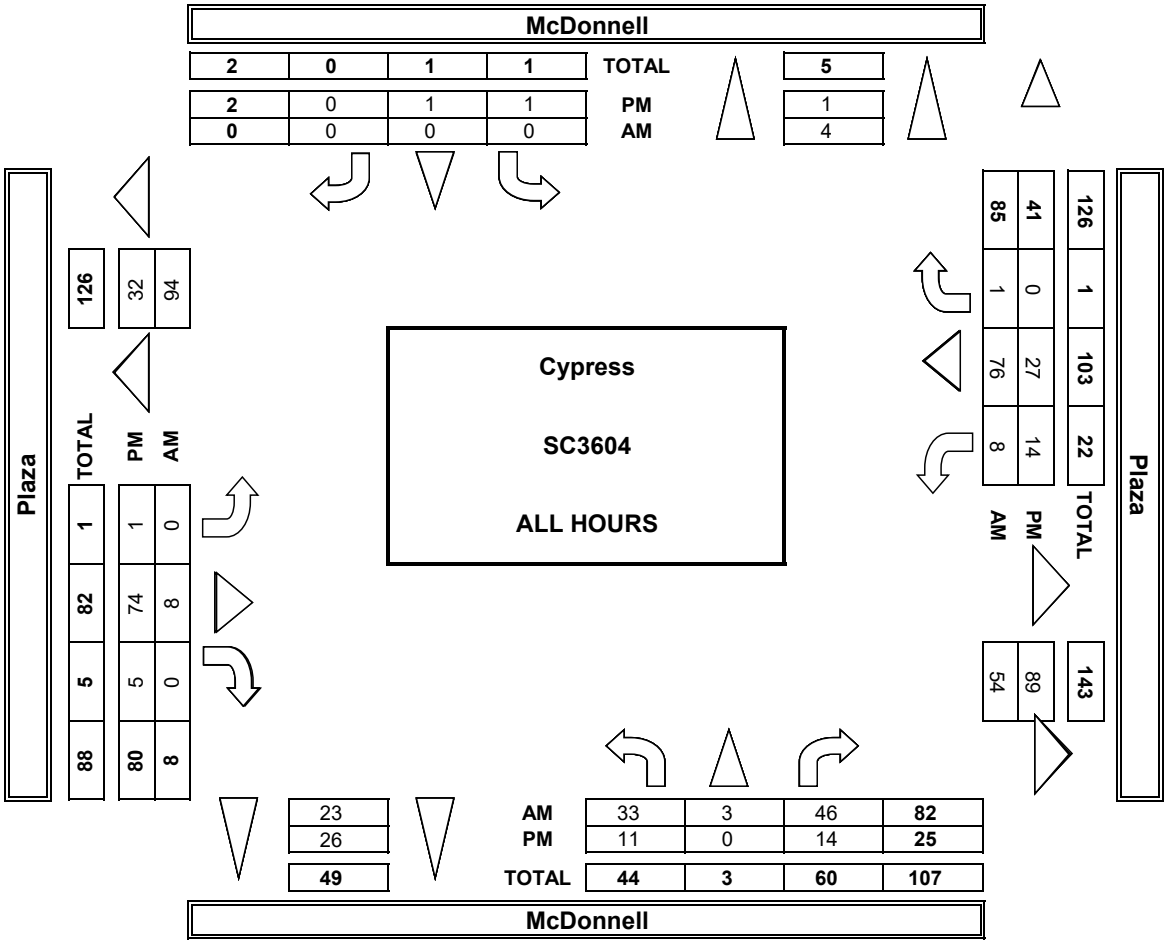
Plaza WEST SIDE — EAST SIDE **Plaza**

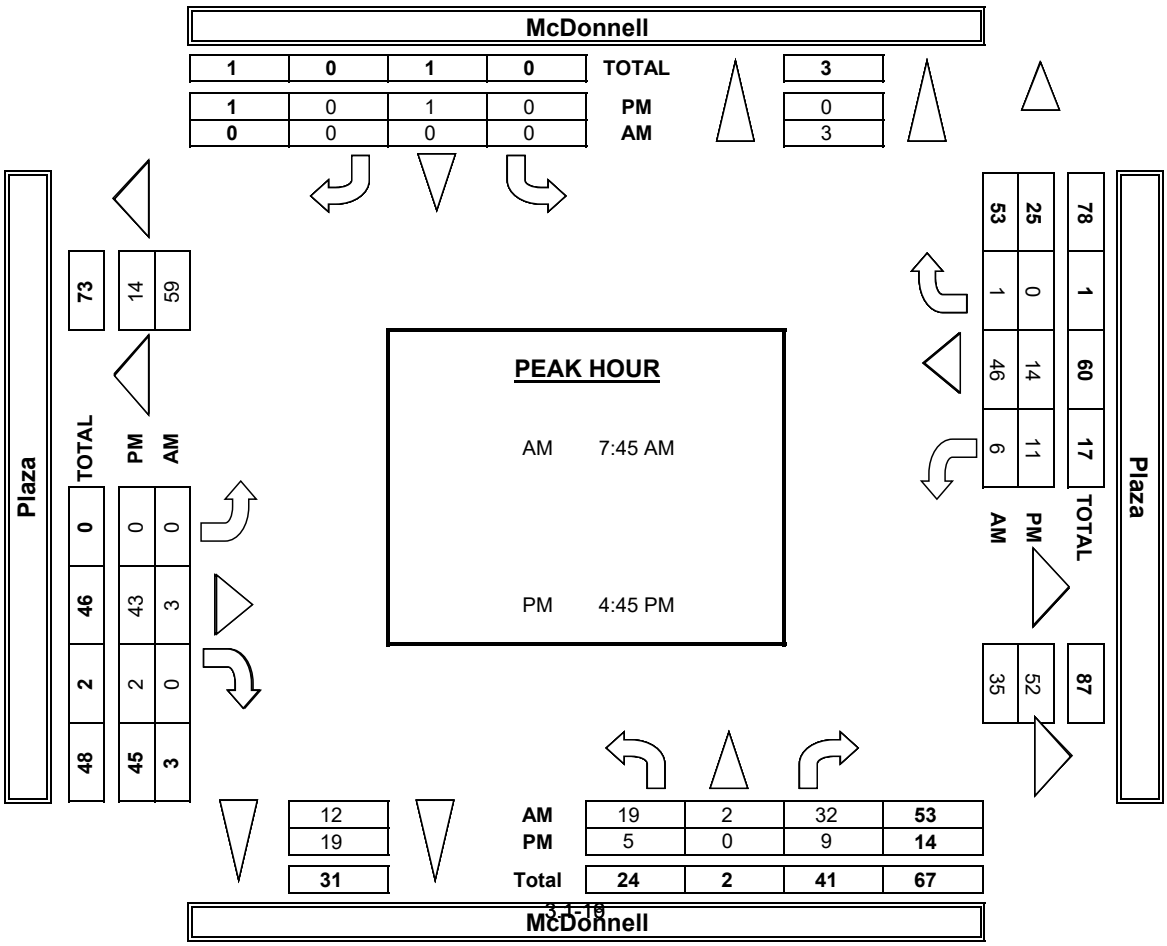
SOUTH SIDE
McDonnell

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	ES	WS	SS	NS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	1	0	1	0	2	1	0	0	0	1	0	0	1	0	1

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Cypress	PROJECT #:	SC3604
8/30/22	NORTH & SOUTH:	McDonnell	LOCATION #:	4
TUESDAY	EAST & WEST:	Plaza	CONTROL:	STOP N

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND McDonnell			SOUTHBOUND McDonnell			EASTBOUND Plaza			WESTBOUND Plaza			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	1
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	1	0	1	0	0	2
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	100%	0%	0%	
	APP/DEPART	0	/	0	0	/	1	1	/	1	1	/	0	0
	BEGIN PEAK HR		7:45 AM											
	VOLUMES	0	0	0	0	0	0	0	1	0	0	0	0	1
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.250			0.000		0.250
	APP/DEPART	0	/	0	0	/	0	1	/	1	0	/	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	1	0	0	0	0	0	1
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	1	0	0	0	1	0	2
	APPROACH %	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	100%	0%	
	APP/DEPART	0	/	1	0	/	0	1	/	0	1	/	1	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	1	0	1
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.250		0.250
	APP/DEPART	0	/	0	0	/	0	0	/	0	1	/	1	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
X	X	X	X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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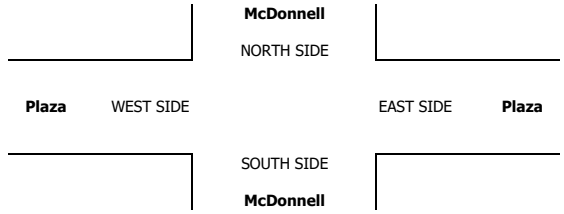
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Cypress	PROJECT #:	SC3604
8/30/22	NORTH & SOUTH:	McDonnell	LOCATION #:	4
TUESDAY	EAST & WEST:	Plaza	CONTROL:	STOP N

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND (McDonnell)			SOUTHBOUND (McDonnell)			EASTBOUND (Plaza)			WESTBOUND (Plaza)			
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM													
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
BEGIN PEAK HR		7:45 AM											
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM													
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
BEGIN PEAK HR		4:45 PM											
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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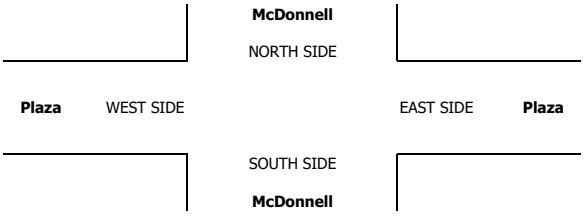
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Cypress	PROJECT #:	SC3604
8/30/22	NORTH & SOUTH:	McDonnell	LOCATION #:	4
TUESDAY	EAST & WEST:	Plaza	CONTROL:	STOP N

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (McDonnell)			SOUTHBOUND (McDonnell)			EASTBOUND (Plaza)			WESTBOUND (Plaza)			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	1	0	0	0	0	0	0	1	0	0	2
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	1	0	0	0	0	1	0	1	0	0	3
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	100%	0%	100%	0%	0%	
	APP/DEPART	1	/	0	0	/	1	1	/	2	1	/	0	0
	BEGIN PEAK HR		7:45 AM											
	VOLUMES	0	0	1	0	0	0	0	0	0	1	0	0	2
	APPROACH %	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	
	PEAK HR FACTOR		0.250			0.000			0.000			0.250		0.250
	APP/DEPART	1	/	0	0	/	1	0	/	1	1	/	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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0	0	0	0
0	0	0	0
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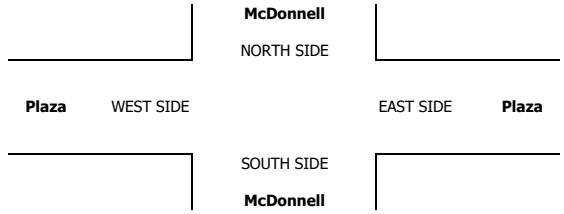
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



T42321

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:			
Tue, Aug 30, 22	LOCATION:	Cypress	PROJECT #: SC3604
	NORTH & SOUTH:	Valley View	LOCATION #: 7
	EAST & WEST:	Plaza	CONTROL: SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

Add U-Turns to Left Turns

		NORTHBOUND (Valley View)			SOUTHBOUND (Valley View)			EASTBOUND (Plaza)			WESTBOUND (Plaza)			
	LANES:	NL 1	NT 3	NR 0	SL 1	ST 3	SR 0	EL 1	ET 1	ER 0	WL 1	WT 1	WR 0	TOTAL
AM	7:00 AM	4	236	14	19	353	12	2	1	0	0	0	1	642
AM	7:15 AM	1	297	9	23	347	12	3	1	0	0	0	1	694
AM	7:30 AM	3	336	16	26	383	9	2	0	2	0	0	1	778
AM	7:45 AM	2	363	10	25	366	17	2	0	4	0	0	5	794
AM	8:00 AM	3	377	17	30	339	17	0	1	5	3	0	0	792
AM	8:15 AM	5	344	16	16	366	26	0	0	3	0	0	2	778
AM	8:30 AM	1	360	16	12	387	16	1	0	2	1	0	5	801
AM	8:45 AM	1	293	11	21	310	13	2	1	1	2	0	3	658
AM	VOLUMES	20	2,606	109	172	2,851	122	12	4	17	6	0	18	5,937
AM	APPROACH %	1%	95%	4%	5%	91%	4%	36%	12%	52%	25%	0%	75%	
AM	APP/DEPART	2,735	/	2,640	3,145	/	2,879	33	/	281	24	/	137	0
	BEGIN PEAK HR		7:45 AM											
	VOLUMES	11	1,444	59	83	1,458	76	3	1	14	4	0	12	3,165
	APPROACH %	1%	95%	4%	5%	90%	5%	17%	6%	78%	25%	0%	75%	
	PEAK HR FACTOR		0.953			0.974			0.750			0.667		0.988
	APP/DEPART	1,514	/	1,462	1,617	/	1,479	18	/	140	16	/	84	0
PM	4:00 PM	3	422	1	6	358	10	18	0	6	10	1	17	852
PM	4:15 PM	1	465	5	1	299	2	12	1	6	6	0	22	820
PM	4:30 PM	0	457	2	5	393	5	14	0	7	14	0	32	929
PM	4:45 PM	0	477	0	4	349	8	10	0	6	13	2	16	885
PM	5:00 PM	3	490	2	3	363	4	34	0	12	17	6	27	961
PM	5:15 PM	1	470	0	4	350	6	21	0	3	7	1	41	904
PM	5:30 PM	1	439	0	1	342	8	20	0	4	10	0	48	873
PM	5:45 PM	1	527	0	0	325	4	6	0	6	3	0	20	892
PM	VOLUMES	10	3,747	10	24	2,779	47	135	1	50	80	10	223	7,116
PM	APPROACH %	0%	99%	0%	1%	98%	2%	73%	1%	27%	26%	3%	71%	
PM	APP/DEPART	3,767	/	4,110	2,850	/	2,913	186	/	30	313	/	63	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	4	1,894	4	16	1,455	23	79	0	28	51	9	116	3,679
	APPROACH %	0%	100%	0%	1%	97%	2%	74%	0%	26%	29%	5%	66%	
	PEAK HR FACTOR		0.961			0.927			0.582			0.880		0.957
	APP/DEPART	1,902	/	2,092	1,494	/	1,535	107	/	17	176	/	35	0

U-TURNS

NB 0	SB 0	EB 0	WB 0	TTL
1	0	0	0	1
0	0	0	0	0
1	1	0	0	2
0	0	0	0	0
1	1	0	0	2
2	1	0	0	3
0	1	0	0	1
0	0	0	0	0
5	4	0	0	9
1	2	0	0	3
0	0	0	0	0
0	3	0	0	3
0	0	0	0	0
1	0	0	0	1
0	0	0	0	0
1	0	0	0	1
4	5	0	0	9

RTOR

NRR 0	SRR 0	ERR 0	WRR 0
3	1	0	0
2	0	0	0
1	0	2	1
0	1	1	2
1	0	2	0
0	1	1	1
1	1	1	3
0	0	1	1
8	4	8	8
2	3	5	6
0	0	4	8
0	0	5	15
0	0	4	18
0	2	4	11
0	0	9	9
0	1	2	19
0	1	3	27
0	0	6	16
0	4	37	123
0	3	19	57

Valley View

NORTH SIDE

Plaza WEST SIDE EAST SIDE **Plaza**

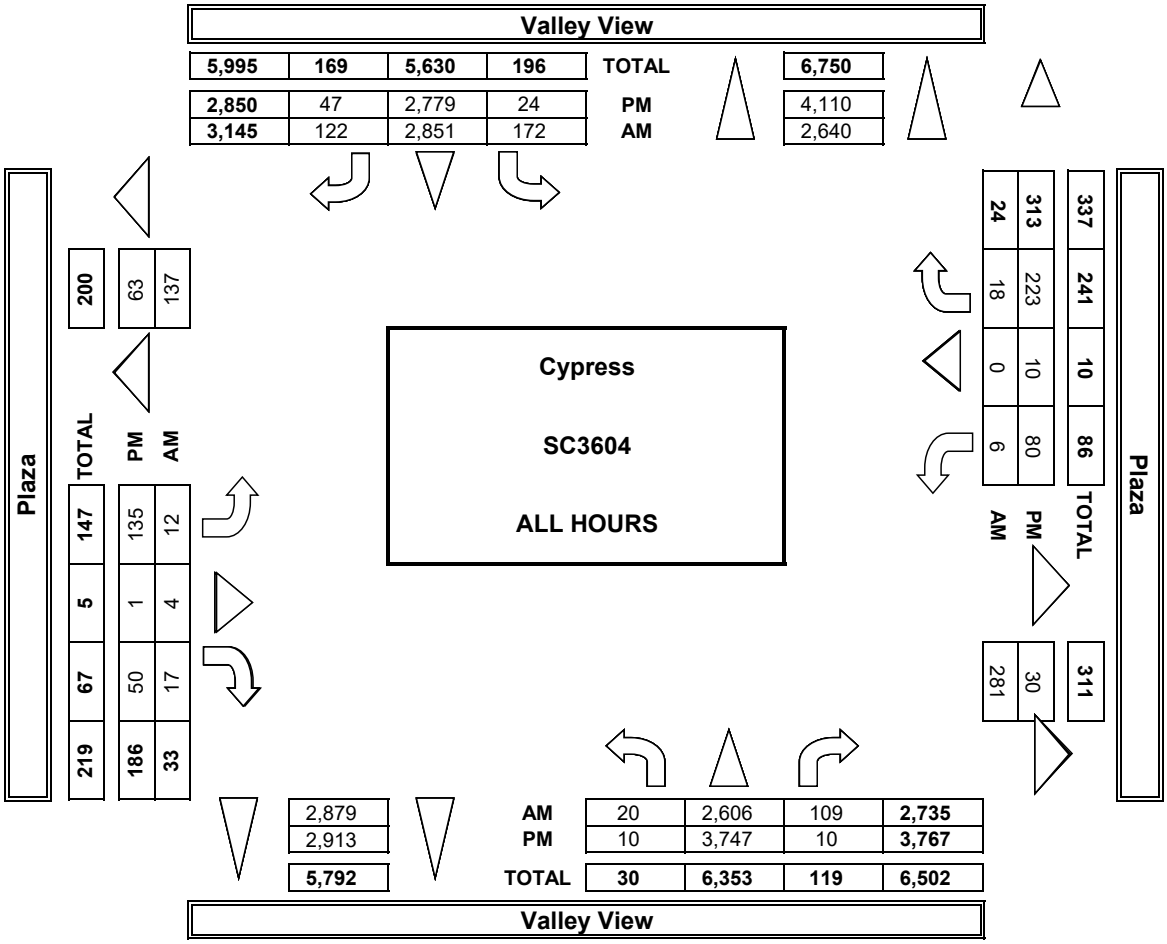
SOUTH SIDE

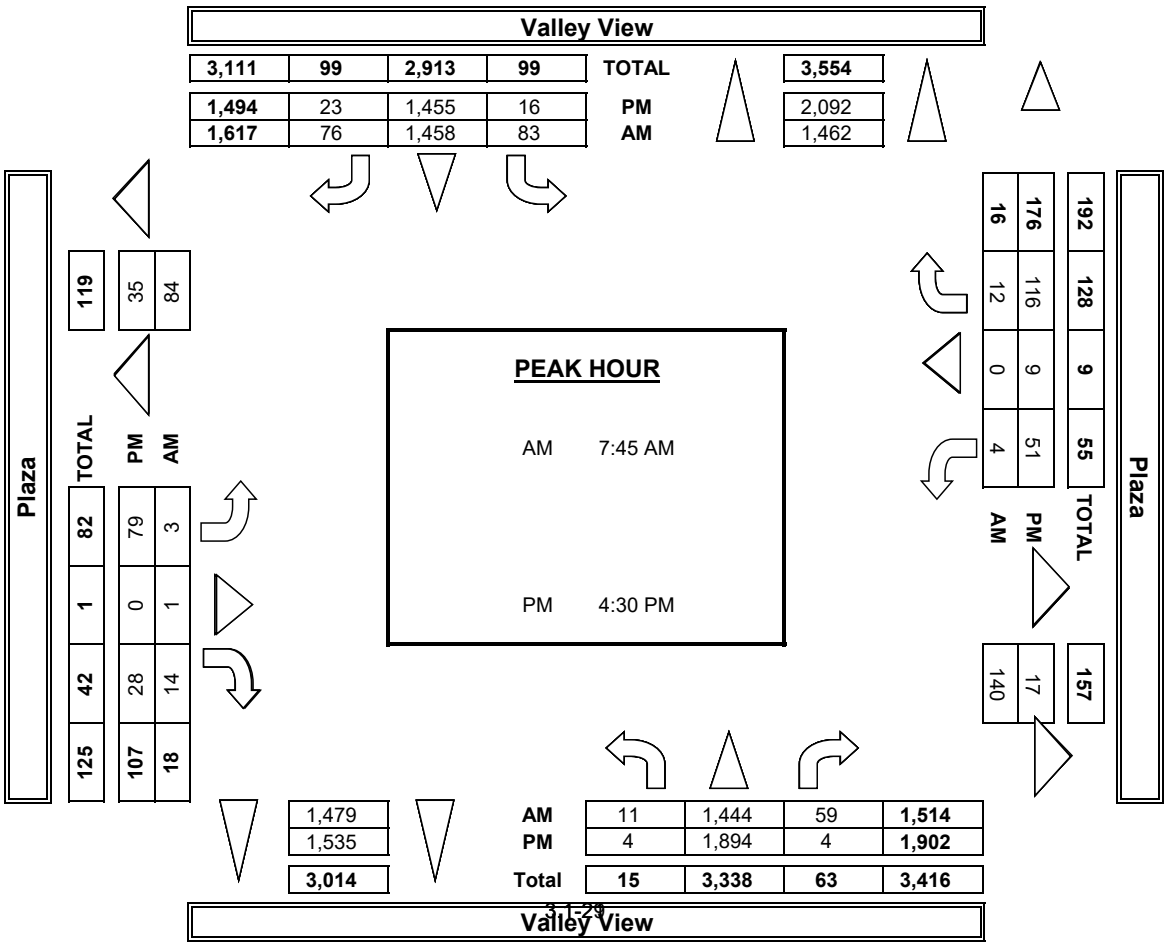
Valley View

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	ES	WS	SS	NS	TOTAL
AM	7:00 AM	4	1	1	0	6	3	1	1	0	5	1	0	0	0	1
AM	7:15 AM	1	1	0	0	2	0	1	0	0	1	1	0	0	0	1
AM	7:30 AM	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0
AM	7:45 AM	2	2	1	0	5	0	2	1	0	3	2	0	0	0	2
AM	8:00 AM	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0
AM	8:15 AM	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0
AM	8:30 AM	2	0	1	0	3	2	0	1	0	3	0	0	0	0	0
AM	8:45 AM	2	0	0	0	2	2	0	0	0	2	0	0	0	0	0
AM	TOTAL	13	4	4	0	21	9	4	4	0	17	4	0	0	0	4
PM	4:00 PM	0	3	0	0	3	0	0	0	0	0	0	3	0	0	3
PM	4:15 PM	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0
PM	4:30 PM	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0
PM	4:45 PM	0	4	1	0	5	0	2	1	0	3	0	2	0	0	2
PM	5:00 PM	1	3	0	0	4	0	2	0	0	2	1	1	0	0	2
PM	5:15 PM	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0
PM	5:30 PM	1	1	1	0	3	0	1	0	0	1	1	0	1	0	2
PM	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	4	12	2	0	18	2	6	1	0	9	2	6	1	0	9

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Cypress	PROJECT #:	SC3604
8/30/22	NORTH & SOUTH:	Valley View	LOCATION #:	7
TUESDAY	EAST & WEST:	Plaza	CONTROL:	SIGNAL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

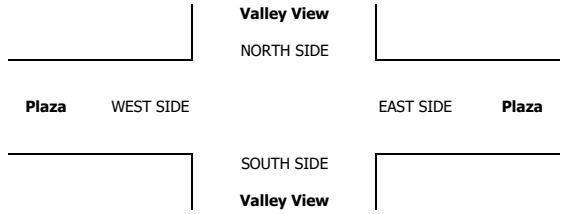
		NORTHBOUND Valley View			SOUTHBOUND Valley View			EASTBOUND Plaza			WESTBOUND Plaza			
	LANES:	NL 1	NT 3	NR 0	SL 1	ST 3	SR 0	EL 1	ET 1	ER 0	WL 1	WT 1	WR 0	TOTAL
AM	7:00 AM	0	6	0	0	17	1	0	0	0	0	0	0	24
	7:15 AM	0	11	0	1	17	1	0	0	0	0	0	0	30
	7:30 AM	0	10	0	0	22	0	0	0	0	0	0	0	32
	7:45 AM	0	12	0	0	11	0	0	0	0	0	0	0	23
	8:00 AM	0	12	0	0	18	0	0	0	0	0	0	0	30
	8:15 AM	2	10	0	0	15	0	0	0	1	0	0	1	29
	8:30 AM	0	17	0	0	18	1	0	0	0	0	0	0	36
	8:45 AM	0	9	1	2	16	0	0	0	0	0	0	0	28
	VOLUMES	2	87	1	3	134	3	0	0	1	0	0	1	232
	APPROACH %	2%	97%	1%	2%	96%	2%	0%	0%	100%	0%	0%	100%	
	APP/DEPART	90	/	88	140	/	136	1	/	4	1	/	4	0
	BEGIN PEAK HR		7:45 AM											
	VOLUMES	1	51	0	0	62	1	0	0	1	0	0	1	118
	APPROACH %	2%	96%	0%	0%	98%	2%	0%	0%	100%	0%	0%	100%	
	PEAK HR FACTOR		0.779			0.829			0.250			0.250		0.819
	APP/DEPART	53	/	52	63	/	64	1	/	0	1	/	2	0
PM	4:00 PM	1	12	0	1	10	1	0	0	0	0	0	0	25
	4:15 PM	0	12	2	0	7	0	0	1	0	0	0	1	23
	4:30 PM	0	11	0	0	7	0	0	0	0	0	0	0	18
	4:45 PM	0	10	0	0	5	0	0	0	1	0	1	0	17
	5:00 PM	0	7	0	0	1	0	0	0	0	0	0	0	8
	5:15 PM	0	5	0	2	5	0	0	0	0	0	0	0	12
	5:30 PM	0	6	0	0	8	0	0	0	0	0	0	0	14
	5:45 PM	0	11	0	0	5	0	0	0	0	0	0	0	16
	VOLUMES	1	74	2	3	48	1	0	1	1	0	1	1	133
	APPROACH %	1%	96%	3%	6%	92%	2%	0%	50%	50%	0%	50%	50%	
	APP/DEPART	77	/	75	52	/	49	2	/	6	2	/	3	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	0	33	0	2	18	0	0	0	1	0	1	0	55
	APPROACH %	0%	100%	0%	10%	90%	0%	0%	0%	100%	0%	100%	0%	
	PEAK HR FACTOR		0.750			0.714			0.250			0.250		0.764
	APP/DEPART	33	/	33	20	/	19	1	/	2	1	/	1	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	1
0	0	0	0	0
0	0	0	0	0
1	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	1	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	1
0	0	0	0
0	0	1	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	1	1



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Cypress	PROJECT #:	SC3604
8/30/22	NORTH & SOUTH:	Valley View	LOCATION #:	7
TUESDAY	EAST & WEST:	Plaza	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Valley View			SOUTHBOUND Valley View			EASTBOUND Plaza			WESTBOUND Plaza			
	LANES:	NL 1	NT 3	NR 0	SL 1	ST 3	SR 0	EL 1	ET 1	ER 0	WL 1	WT 1	WR 0	TOTAL
AM	7:00 AM	0	1	0	0	1	0	0	0	0	0	0	0	2
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
	7:45 AM	0	0	0	0	2	1	0	0	0	0	0	0	3
	8:00 AM	0	0	0	0	6	0	0	1	0	0	0	0	7
	8:15 AM	0	0	0	0	2	0	0	0	0	0	0	0	2
	8:30 AM	0	1	0	0	4	0	0	0	0	0	0	0	5
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	1
	VOLUMES	0	3	0	0	15	1	0	1	0	0	0	1	21
	APPROACH %	0%	100%	0%	0%	94%	6%	0%	100%	0%	0%	0%	100%	
	APP/DEPART	3	/	4	16	/	15	1	/	1	1	/	1	0
	BEGIN PEAK HR		7:45 AM											
	VOLUMES	0	1	0	0	14	1	0	1	0	0	0	0	17
	APPROACH %	0%	100%	0%	0%	93%	7%	0%	100%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.250			0.625			0.250			0.000		0.607
	APP/DEPART	1	/	1	15	/	14	1	/	1	0	/	1	0
PM	4:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	2
	4:15 PM	0	5	0	0	1	0	0	0	0	0	0	0	6
	4:30 PM	0	1	0	0	2	0	0	0	0	0	0	0	3
	4:45 PM	0	1	0	0	2	0	0	0	0	0	0	0	3
	5:00 PM	0	3	0	0	0	0	0	0	0	0	0	0	3
	5:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
	5:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
	5:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
	VOLUMES	0	13	0	0	7	0	0	0	0	0	0	0	20
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	13	/	13	7	/	7	0	/	0	0	/	0	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	0	6	0	0	4	0	0	0	0	0	0	0	10
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.500			0.500			0.000			0.000		0.833
	APP/DEPART	6	/	6	4	/	4	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	1
0	0	0	1
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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0	0	0	0
0	0	0	0
0	0	0	0
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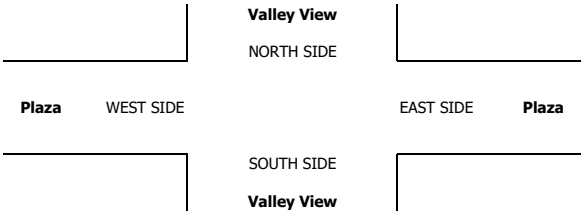
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Cypress	PROJECT #:	SC3604
8/30/22	NORTH & SOUTH:	Valley View	LOCATION #:	7
TUESDAY	EAST & WEST:	Plaza	CONTROL:	SIGNAL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Valley View			SOUTHBOUND Valley View			EASTBOUND Plaza			WESTBOUND Plaza			
		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	LANES:	1	3	0	1	3	0	1	1	0	1	1	0	
AM	7:00 AM	0	1	0	0	1	0	1	0	0	0	0	0	3
	7:15 AM	0	1	0	0	2	0	0	0	0	0	0	0	3
	7:30 AM	0	0	0	0	3	0	0	0	0	0	0	0	3
	7:45 AM	0	2	0	0	1	0	0	0	0	0	0	0	3
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	2	0	0	2	0	0	0	0	0	0	0	4
	8:30 AM	0	4	0	0	6	0	0	0	0	0	0	0	10
	8:45 AM	0	2	0	0	2	0	0	0	0	0	0	0	4
	VOLUMES	0	12	0	0	17	0	1	0	0	0	0	0	30
	APPROACH %	0%	100%	0%	0%	100%	0%	100%	0%	0%	0%	0%	0%	
	APP/DEPART	12	/	13	17	/	17	1	/	0	0	/	0	0
	BEGIN PEAK HR		7:45 AM											
	VOLUMES	0	8	0	0	9	0	0	0	0	0	0	0	17
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.500			0.375			0.000			0.000		0.425
	APP/DEPART	8	/	8	9	/	9	0	/	0	0	/	0	0
PM	4:00 PM	0	1	0	0	2	0	0	0	0	0	0	0	3
	4:15 PM	0	3	0	0	0	0	0	0	0	0	0	0	3
	4:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	2
	4:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	2
	5:00 PM	0	3	0	0	0	0	0	0	0	0	0	0	3
	5:15 PM	0	1	0	0	1	0	0	0	0	1	0	0	3
	5:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
	5:45 PM	0	3	0	0	2	0	0	0	0	0	0	0	5
	VOLUMES	0	14	0	0	7	0	0	0	0	1	0	0	22
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	
	APP/DEPART	14	/	14	7	/	8	0	/	0	1	/	0	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	0	6	0	0	3	0	0	0	0	1	0	0	10
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%	
	PEAK HR FACTOR		0.500			0.750			0.000			0.250		0.833
	APP/DEPART	6	/	6	3	/	4	0	/	0	1	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Valley View

NORTH SIDE

Plaza WEST SIDE EAST SIDE **Plaza**

SOUTH SIDE

Valley View

A816

24-HOUR ROADWAY SEGMENT COUNTS (WITH FHWA CLASSIFICATION)

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tuesday, August 30, 2022
JOB #: SC3604

CITY: Cypress
LOCATION: CLASS2 Plaza east of McDonnell

AM	EASTBOUND														PM	EASTBOUND													
TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL	Time	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
0:00	0	17	3	1	0	0	0	0	0	0	0	0	0	21	12:00	5	315	43	3	13	1	0	0	2	0	0	0	0	382
0:15	0	17	0	0	0	0	0	0	1	0	0	0	0	18	12:15	2	280	38	0	18	1	0	0	3	0	0	0	0	342
0:30	1	27	4	0	0	0	0	0	1	0	0	0	0	33	12:30	0	296	33	1	9	0	0	0	5	0	0	0	0	344
0:45	0	18	1	0	0	0	0	0	0	0	0	0	0	19	12:45	0	291	51	0	10	4	0	0	4	0	0	0	0	360
1:00	0	7	2	1	0	0	0	0	0	0	0	0	0	10	13:00	0	301	29	1	9	2	0	0	2	0	0	0	0	344
1:15	0	15	3	0	0	0	0	0	1	0	0	0	0	19	13:15	0	289	37	1	11	1	0	1	2	0	0	0	0	342
1:30	0	21	3	0	1	0	0	0	0	0	0	0	0	25	13:30	1	278	46	2	13	0	0	0	2	0	0	0	0	342
1:45	0	8	2	0	0	0	0	0	0	0	0	0	0	10	13:45	1	263	32	1	6	3	0	2	0	0	0	0	0	308
2:00	0	11	1	0	0	0	0	0	0	0	0	0	0	12	14:00	0	310	50	0	12	3	0	1	3	0	0	0	0	379
2:15	0	19	0	0	0	0	0	0	0	0	0	0	0	19	14:15	2	303	46	1	14	3	0	0	2	0	0	0	0	371
2:30	0	7	3	0	0	0	0	0	0	0	0	0	0	10	14:30	0	342	64	1	14	1	0	0	1	0	0	0	0	423
2:45	0	17	3	0	0	0	0	0	1	0	0	0	0	21	14:45	0	332	46	1	12	5	0	1	3	0	0	0	0	400
3:00	0	20	5	0	0	0	0	0	1	0	0	0	0	26	15:00	2	315	62	0	15	6	0	1	1	0	0	0	0	402
3:15	2	21	2	0	0	0	0	0	0	0	0	0	0	25	15:15	1	337	69	2	9	5	0	1	2	0	0	0	0	426
3:30	0	14	2	0	0	0	0	0	0	0	0	0	0	16	15:30	2	399	54	3	11	1	0	0	1	0	0	0	0	471
3:45	0	27	7	0	0	0	0	0	0	0	0	0	0	34	15:45	2	392	68	3	16	2	0	0	3	0	0	0	0	486
4:00	1	20	6	0	0	0	0	0	0	0	0	0	0	27	16:00	3	382	53	0	10	4	0	0	1	0	0	0	0	453
4:15	0	42	6	1	1	0	0	0	1	0	0	0	0	51	16:15	2	415	54	2	8	3	0	0	0	0	0	0	0	484
4:30	0	54	8	0	0	1	0	0	2	0	0	0	0	65	16:30	2	391	53	1	7	1	0	0	0	0	0	0	0	455
4:45	1	72	9	1	3	0	0	0	1	0	0	0	0	87	16:45	1	381	47	1	6	3	0	2	0	0	0	0	0	441
5:00	1	42	8	1	1	0	0	0	2	0	0	0	0	55	17:00	1	484	45	0	6	1	0	0	0	0	0	0	0	537
5:15	0	78	11	1	1	2	0	0	3	2	0	0	0	98	17:15	5	429	49	1	8	1	0	0	0	0	0	0	0	493
5:30	2	103	17	1	3	1	0	0	2	0	0	0	0	129	17:30	4	413	41	1	1	2	0	0	0	0	0	0	0	462
5:45	0	164	29	0	5	0	0	0	6	0	0	0	0	204	17:45	0	382	51	0	4	0	0	0	2	0	0	0	0	439
6:00	1	125	35	1	3	0	0	0	3	0	0	0	0	168	18:00	0	370	52	1	5	0	0	0	0	0	0	0	0	428
6:15	0	147	23	1	5	0	0	0	2	0	0	0	0	178	18:15	5	366	48	0	1	1	0	0	4	0	0	0	0	425
6:30	1	188	46	1	3	2	0	0	1	0	0	0	0	242	18:30	1	284	27	1	5	1	0	0	1	0	0	0	0	320
6:45	0	239	49	0	4	2	0	1	3	1	0	0	0	299	18:45	0	310	32	0	10	0	0	0	0	0	0	0	0	352
7:00	1	263	41	1	9	0	0	0	3	0	0	0	0	318	19:00	0	264	33	1	4	0	0	0	0	0	0	0	0	302
7:15	1	282	46	1	6	2	0	0	1	1	0	0	0	340	19:15	1	265	32	0	3	0	0	0	2	0	0	0	0	303
7:30	3	341	39	2	7	2	0	0	1	1	0	0	0	396	19:30	1	263	25	1	7	0	0	0	0	0	0	0	0	297
7:45	1	385	38	1	9	1	0	0	3	0	0	0	0	438	19:45	0	240	19	0	0	0	0	0	1	0	0	0	0	260
8:00	2	393	46	0	11	2	0	0	2	0	0	0	0	456	20:00	1	246	18	1	2	0	0	0	0	0	0	0	0	268
8:15	1	355	43	1	10	0	0	1	2	0	0	0	0	413	20:15	0	207	15	0	1	0	0	0	1	0	0	0	0	224
8:30	1	306	37	1	9	0	0	0	6	1	0	0	0	361	20:30	0	165	10	0	2	0	0	0	1	0	0	0	0	178
8:45	1	269	49	1	12	6	1	1	4	0	0	0	0	344	20:45	1	158	9	0	2	0	0	0	0	0	0	0	0	170
9:00	1	239	30	0	11	2	4	0	4	0	0	0	0	291	21:00	1	134	8	1	0	1	0	0	0	0	0	0	0	145
9:15	0	240	28	1	6	2	0	1	0	0	0	0	0	278	21:15	0	136	10	0	0	1	0	0	0	0	0	0	0	147
9:30	1	225	26	0	8	1	1	1	4	1	0	0	0	268	21:30	1	121	4	0	1	0	0	0	0	0	0	0	0	127
9:45	3	226	40	1	6	4	2	3	0	0	0	0	0	285	21:45	0	75	6	0	1	0	0	0	1	0	0	0	0	83
10:00	0	215	38	1	10	2	0	1	1	0	0	0	0	268	22:00	0	72	1	1	2	0	0	0	0	0	0	0	0	76
10:15	0	215	44	0	8	2	0	0	3	0	0	0	0	272	22:15	1	70	4	0	0	0	0	0	0	0	0	0	0	75
10:30	0	214	41	0	12	2	0	0	1	0	0	0	0	270	22:30	0	68	6	0	0	0	0	0	1	0	0	0	0	75
10:45	0	243	45	1	10	0	2	0	1	1	0	0	0	303	22:45	1	53	7	1	0	0	0	0	0	0	0	0	0	62
11:00	2	277	43	1	6	3	0	1	2	0	0	0	0	335	23:00	0	55	3	2	0	0	0	0	0	0	0	0	0	60
11:15	1	254	45	0	4	4	1	0	3	0	0	0	0	312	23:15	0	38	6	0	0	0	0	0	0	0	0	0	0	44
11:30	0	280	51	1	9	4	0	0	4	0	0	0	0	349	23:30	1	53	1	0	2	0	0	0	1	0	0	0	0	58
11:45	0	229	47	0	7	2	1	0	3	1	0	0	0	290	23:45	0	31	5	0	1	0	0	0	0	0	0	0	0	37
TOTAL	29	6,991	1,105	24	200	49	12	10	79	9	0	0	0	8,508	TOTAL	51	12,364	1,542	36	291	57	0	9	52	0	0	0	0	14,402

AM PEAK HOUR	7:30 AM
AM PEAK VOLUME	1,703
PM PEAK HOUR	4:45 PM
PM PEAK VOLUME	1,933

CLASS 1	Class 1 — Motorcycles	**CLASS 8**	3 to 4 Axles, Single Trailer
CLASS 2	Passenger Cars	**CLASS 9**	5 Axles, Single Trailer
CLASS 3	2 Axles, 4-Tire Single Units	**CLASS 10**	6 or More Axles, Single Trailer
CLASS 4	Buses	**CLASS 11**	5 or Less Axles, Multi-Trailers
CLASS 5	2 Axles, 6-Tire Single Units	**CLASS 12**	6 Axles, Multi-Trailers
CLASS 6	3 Axles, Single Unit	**CLASS 13**	7 or More Axles, Multi-Trailers
CLASS 7	4 or More Axles, Single Unit		

TOTAL: AM+PM	80	19,355	2,647	60	491	106	12	19	131	9	0	0	0	22,910
% OF TOTAL	0.3%	84.5%	11.6%	0.3%	2.1%	0.5%	0.1%	0.1%	0.6%	0.0%	0.0%	0.0%	0.0%	100.0%
Class	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	
TOTAL: ALL	142	36,433	4,785	118	949	197	19	40	267	22	0	0	0	42,972
% OF TOTAL	0.6%	159.0%	20.9%	0.5%	4.1%	0.9%	0.1%	0.2%	1.2%	0.1%	0.0%	0.0%	0.0%	100.0%

24-HOUR ROADWAY SEGMENT COUNTS (WITH FHWA CLASSIFICATION)

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tuesday, August 30, 2022
JOB #: SC3604

CITY: Cypress
LOCATION: CLASS2 Plaza east of McDonnell

AM	WESTBOUND													
TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
0:00	0	25	2	1	0	0	0	0	0	0	0	0	0	28
0:15	0	24	1	0	1	0	0	0	0	0	0	0	0	26
0:30	0	22	3	0	0	0	0	0	0	0	0	0	0	25
0:45	0	16	0	0	0	0	0	0	0	0	0	0	0	16
1:00	0	22	0	1	0	0	0	0	0	0	0	0	0	23
1:15	0	11	4	0	2	0	0	0	0	0	0	0	0	17
1:30	1	6	1	0	0	0	0	0	1	0	0	0	0	9
1:45	0	16	0	0	2	0	0	0	0	0	0	0	0	18
2:00	0	18	2	0	0	0	0	0	0	0	0	0	0	20
2:15	0	9	2	0	0	0	0	0	1	0	0	0	0	12
2:30	0	5	1	0	0	0	0	0	2	0	0	0	0	8
2:45	0	13	2	0	0	0	0	0	1	0	0	0	0	16
3:00	0	10	1	0	0	0	0	0	1	0	0	0	0	12
3:15	0	21	2	0	1	0	0	0	0	0	0	0	0	24
3:30	0	28	3	0	1	0	0	0	0	0	0	0	0	32
3:45	0	38	3	0	1	0	0	0	0	0	0	0	0	42
4:00	0	16	1	0	0	1	0	0	1	0	0	0	0	19
4:15	0	32	6	0	3	0	0	0	0	0	0	0	0	41
4:30	0	45	4	1	1	2	0	0	1	0	0	0	0	54
4:45	0	59	8	1	2	1	0	0	0	0	0	0	0	71
5:00	0	63	13	1	2	1	0	0	5	0	0	0	0	85
5:15	0	64	11	0	2	4	0	0	4	1	0	0	0	86
5:30	1	85	12	1	2	4	0	0	1	0	0	0	0	106
5:45	0	107	24	0	7	0	0	0	1	0	0	0	0	139
6:00	1	97	23	1	3	0	0	1	1	0	0	0	0	127
6:15	1	123	38	1	2	2	0	0	3	0	0	0	0	170
6:30	0	173	49	2	10	1	0	0	0	1	0	0	0	236
6:45	1	210	44	1	8	0	0	0	5	0	0	0	0	269
7:00	0	236	35	2	6	4	0	1	3	0	0	0	0	287
7:15	1	340	49	1	7	4	0	0	2	0	0	0	0	404
7:30	2	347	50	0	20	0	1	0	1	1	0	0	0	422
7:45	1	374	46	1	11	4	0	1	2	0	0	0	0	440
8:00	1	336	47	1	7	4	0	1	5	2	0	0	0	404
8:15	1	351	46	1	8	2	0	0	3	0	0	0	0	412
8:30	3	328	37	0	10	3	2	0	6	0	0	0	0	389
8:45	2	283	34	1	11	3	0	1	4	1	0	0	0	340
9:00	1	253	29	1	13	1	0	1	1	0	0	0	0	300
9:15	3	198	30	1	6	0	0	0	4	1	0	0	0	243
9:30	0	226	31	1	7	0	0	0	3	0	0	0	0	268
9:45	0	216	32	0	12	1	0	0	2	0	0	0	0	263
10:00	0	213	28	1	8	2	0	0	7	0	0	0	0	259
10:15	1	240	33	0	15	1	0	1	1	0	0	0	0	292
10:30	0	227	26	1	8	0	2	1	1	1	0	0	0	267
10:45	1	235	32	0	12	1	2	2	1	0	0	0	0	286
11:00	0	199	35	1	9	1	0	0	3	0	0	0	0	248
11:15	0	242	48	0	25	0	0	0	3	1	0	0	0	319
11:30	0	255	35	0	8	1	0	0	2	0	0	0	0	301
11:45	1	256	49	1	9	0	0	1	4	0	0	0	0	321
TOTAL	23	6,713	1,012	25	262	48	7	11	86	9	0	0	0	8,196

AM PEAK HOUR	7:30 AM
AM PEAK VOLUME	1,678

PM	WESTBOUND													
Time	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
12:00	0	241	43	0	9	0	0	0	1	0	0	0	0	294
12:15	0	284	36	2	4	1	0	0	2	0	0	0	0	329
12:30	4	272	31	0	6	4	0	0	4	0	0	0	0	321
12:45	1	288	27	1	7	3	0	1	3	1	0	0	0	332
13:00	1	255	42	0	18	0	0	1	0	0	0	0	0	317
13:15	2	247	32	2	11	1	0	0	4	0	0	0	0	299
13:30	1	296	35	1	12	2	0	0	1	1	0	0	0	349
13:45	3	267	37	2	9	3	0	0	4	0	0	0	0	325
14:00	3	235	32	1	18	1	0	0	3	0	0	0	0	293
14:15	0	264	32	0	11	2	0	0	2	0	0	0	0	311
14:30	1	313	39	1	3	3	0	2	1	1	0	0	0	364
14:45	2	333	45	2	8	1	0	1	1	0	0	0	0	393
15:00	1	293	37	1	0	2	0	0	1	0	0	0	0	335
15:15	0	267	36	2	9	1	0	3	0	1	0	0	0	319
15:30	0	288	37	1	10	5	0	1	1	0	0	0	0	343
15:45	0	290	38	2	10	2	0	0	0	0	0	0	0	342
16:00	2	312	38	1	6	3	0	0	3	0	0	0	0	365
16:15	2	291	26	1	3	2	0	0	1	0	0	0	0	326
16:30	1	354	44	0	5	3	0	0	2	0	0	0	0	409
16:45	3	361	35	1	3	2	0	0	1	0	0	0	0	406
17:00	2	431	45	0	6	0	0	0	0	0	0	0	0	484
17:15	0	351	29	1	5	0	0	0	0	0	0	0	0	386
17:30	1	351	41	0	3	0	0	0	1	0	0	0	0	397
17:45	0	324	25	1	2	0	0	0	0	0	0	0	0	352
18:00	0	322	32	1	2	0	0	0	1	0	0	0	0	358
18:15	0	248	21	1	0	0	0	0	0	0	0	0	0	270
18:30	0	283	14	0	1	0	0	0	0	0	0	0	0	298
18:45	0	216	15	1	2	0	0	0	1	0	0	0	0	235
19:00	1	226	14	0	3	1	0	1	1	0	0	0	0	247
19:15	0	210	22	0	0	0	0	0	1	0	0	0	0	233
19:30	0	206	16	1	3	0	0	0	1	0	0	0	0	227
19:45	0	197	15	1	1	0	0	0	2	0	0	0	0	216
20:00	2	169	16	1	0	0	0	0	0	0	0	0	0	188
20:15	1	126	14	0	0	1	0	0	1	0	0	0	0	143
20:30	1	125	10	1	2	0	0	0	1	0	0	0	0	140
20:45	0	107	8	0	0	0	0	0	0	0	0	0	0	115
21:00	0	118	9	1	0	0	0	0	1	0	0	0	0	129
21:15	0	101	9	0	0	0	0	0	0	0	0	0	0	110
21:30	0	72	11	0	0	0	0	0	0	0	0	0	0	83
21:45	1	67	3	0	1	0	0	0	1	0	0	0	0	73
22:00	1	51	8	1	0	0	0	0	2	0	0	0	0	63
22:15	0	54	6	0	0	0	0	0	0	0	0	0	0	60
22:30	0	57	6	0	0	0	0	0	1	0	0	0	0	64
22:45	1	47	5	0	1	0	0	0	0	0	0	0	0	54
23:00	0	38	1	1	2	0	0	0	0	0	0	0	0	42
23:15	0	41	1	0	0	0	0	0	0	0	0	0	0	42
23:30	1	47	4	0	0	0	0	0	0	0	0	0	0	52
23:45	0	29	4	0	0	0	0	0	0	0	0	0	0	33
TOTAL	39	####	1,126	33	196	43	0	10	50	4	0	0	0	11,866

PM PEAK HOUR	4:30 PM
PM PEAK VOLUME	1,685

CLASS 1	Class 1 — Motorcycles	**CLASS 8**	3 to 4 Axles, Single Trailer
CLASS 2	Passenger Cars	**CLASS 9**	5 Axles, Single Trailer
CLASS 3	2 Axles, 4-Tire Single Units	**CLASS 10**	6 or More Axles, Single Trailer
CLASS 4	Buses	**CLASS 11**	5 or Less Axles, Multi-Trailers
CLASS 5	2 Axles, 6-Tire Single Units	**CLASS 12**	6 Axles, Multi-Trailers
CLASS 6	3 Axles, Single Unit	**CLASS 13**	7 or More Axles, Multi-Trailers
CLASS 7	4 or More Axles, Single Unit		

TOTAL: AM+PM	62	####	2,138	58	458	91	7	21	136	13	0	0	0	20,062
% OF TOTAL	0.3%	85.1%	10.7%	0.3%	2.3%	0.5%	0.0%	0.1%	0.7%	0.1%	0.0%	0.0%	0.0%	100.0%

Class	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**

A816

24-HOUR ROADWAY SEGMENT COUNTS (WITH FHWA CLASSIFICATION)

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tuesday, August 30, 2022
JOB #: SC3604

CITY: Cypress
LOCATION: CLASS3 Valley View north of Plaza

AM	EASTBOUND														PM	EASTBOUND													
TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL	Time	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
0:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2	12:00	0	11	1	0	0	0	0	0	0	0	0	0	0	12
0:15	0	0	1	0	0	0	0	0	0	0	0	0	0	1	12:15	0	19	2	0	1	0	0	0	1	0	0	0	0	23
0:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12:30	0	8	1	0	0	0	0	1	0	0	0	0	0	10
0:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12:45	0	5	1	0	0	0	0	0	0	0	0	0	0	6
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13:00	0	7	0	0	1	0	0	0	0	0	0	0	0	8
1:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13:15	0	6	1	0	1	0	0	0	1	0	0	0	0	9
1:30	0	1	1	0	0	0	0	0	0	0	0	0	0	2	13:30	0	7	1	0	0	0	0	0	1	0	0	0	0	9
1:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13:45	0	3	0	0	0	0	0	0	1	0	0	0	0	4
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14:00	0	3	1	0	0	0	0	0	0	0	0	0	0	4
2:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14:15	0	4	0	0	0	0	0	0	0	0	0	0	0	4
2:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14:30	0	6	1	0	0	0	0	0	0	0	0	0	0	7
2:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14:45	0	2	3	0	0	0	0	0	1	0	0	0	0	6
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15:00	0	8	1	0	0	0	0	0	1	0	0	0	0	10
3:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15:15	0	7	1	0	0	0	0	0	2	0	0	0	0	10
3:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15:30	0	7	0	0	0	0	0	0	1	0	0	0	0	8
3:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15:45	0	9	0	0	0	0	0	0	0	0	0	0	0	9
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16:00	0	10	0	0	0	0	0	0	0	0	0	0	0	10
4:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16:15	0	7	2	0	0	0	0	0	0	0	0	0	0	9
4:30	0	0	0	0	0	0	0	0	1	0	0	0	0	1	16:30	0	13	1	0	0	0	0	0	0	0	0	0	0	14
4:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16:45	0	4	0	0	0	0	0	0	0	0	0	0	0	4
5:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3	17:00	0	17	4	0	0	0	0	0	0	0	0	0	0	21
5:15	0	3	1	0	0	0	0	0	0	0	0	0	0	4	17:15	0	10	1	0	0	0	0	0	0	0	0	0	0	11
5:30	0	1	0	0	0	0	0	0	0	0	0	0	0	1	17:30	0	12	0	0	0	0	0	0	0	0	0	0	0	12
5:45	0	0	1	0	1	0	0	0	0	0	0	0	0	2	17:45	0	8	0	0	0	0	0	0	0	0	0	0	0	8
6:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1	18:00	0	7	1	0	0	0	0	0	0	0	0	0	0	8
6:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18:15	0	7	1	0	0	0	0	0	0	0	0	0	0	8
6:30	0	3	1	0	0	0	0	0	0	0	0	0	0	4	18:30	0	5	1	0	0	0	0	0	0	0	0	0	0	6
6:45	0	4	0	0	0	0	0	0	0	0	0	0	0	4	18:45	0	6	0	0	0	0	0	0	0	0	0	0	0	6
7:00	0	4	1	0	0	0	0	0	1	0	0	0	0	6	19:00	0	3	2	0	0	0	0	0	0	0	0	0	0	5
7:15	0	2	0	0	0	0	0	0	0	0	0	0	0	2	19:15	0	3	0	0	0	0	0	0	0	0	0	0	0	3
7:30	0	3	0	0	0	0	0	0	0	0	0	0	0	3	19:30	0	1	0	0	0	0	0	0	0	0	0	0	0	1
7:45	0	10	0	0	0	0	0	0	0	0	0	0	0	10	19:45	0	1	0	0	0	0	0	0	0	0	0	0	0	1
8:00	0	6	1	0	0	0	0	0	0	0	0	0	0	7	20:00	0	2	1	0	0	0	0	0	0	0	0	0	0	3
8:15	0	8	0	0	0	0	0	0	1	0	0	0	0	9	20:15	0	1	1	0	0	1	0	0	0	0	0	0	0	3
8:30	0	7	2	0	0	0	0	0	0	0	0	0	0	9	20:30	0	2	0	0	0	0	0	0	0	0	0	0	0	2
8:45	0	6	2	0	0	0	0	0	0	0	0	0	0	8	20:45	0	6	0	0	0	0	0	0	0	0	0	0	0	6
9:00	0	6	1	0	0	0	0	0	1	0	0	0	0	8	21:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
9:15	0	4	0	0	0	0	0	0	0	0	0	0	0	4	21:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30	0	4	1	0	0	0	0	0	0	0	0	0	0	5	21:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45	0	2	0	0	0	0	0	0	0	0	0	0	0	2	21:45	0	3	1	0	0	0	0	0	0	0	0	0	0	4
10:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2	22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15	0	2	0	0	0	0	0	0	1	0	0	0	0	3	22:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30	0	4	1	0	0	0	0	0	0	0	0	0	0	5	22:30	0	1	1	0	0	1	0	0	0	0	0	0	0	3
10:45	0	5	0	0	1	0	0	0	0	0	0	0	0	6	22:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	7	0	0	1	0	0	0	0	0	0	0	0	8	23:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
11:15	0	7	0	0	0	0	0	0	0	0	0	0	0	7	23:15	0	1	0	0	0	0	0	0	0	0	0	0	0	1
11:30	0	7	1	0	0	0	0	0	0	0	0	0	0	8	23:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45	0	7	1	0	0	0	0	0	0	0	0	0	0	8	23:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	121	16	0	3	0	0	0	5	0	0	0	0	145	TOTAL	0	245	31	0	3	2	0	1	9	0	0	0	0	291
										AM PEAK HOUR				7:45 AM										PM PEAK HOUR				5:00 PM
										AM PEAK VOLUME				35										PM PEAK VOLUME				52

CLASS 1	Class 1 — Motorcycles	**CLASS 8**	3 to 4 Axles, Single Trailer
CLASS 2	Passenger Cars	**CLASS 9**	5 Axles, Single Trailer
CLASS 3	2 Axles, 4-Tire Single Units	**CLASS 10**	6 or More Axles, Single Trailer
CLASS 4	Buses	**CLASS 11**	5 or Less Axles, Multi-Trailers
CLASS 5	2 Axles, 6-Tire Single Units	**CLASS 12**	6 Axles, Multi-Trailers
CLASS 6	3 Axles, Single Unit	**CLASS 13**	7 or More Axles, Multi-Trailers
CLASS 7	4 or More Axles, Single Unit		

TOTAL: AM+PM	0	366	47	0	6	2	0	1	14	0	0	0	0	436
% OF TOTAL	0.0%	83.9%	10.8%	0.0%	1.4%	0.5%	0.0%	0.2%	3.2%	0.0%	0.0%	0.0%	0.0%	100.0%
Class	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	
TOTAL: ALL	0	673	78	0	17	5	0	3	26	0	0	0	0	802
% OF TOTAL	0.0%	154.4%	17.9%	0.0%	3.9%	1.1%	0.0%	0.7%	6.0%	0.0%	0.0%	0.0%	0.0%	100.0%

24-HOUR ROADWAY SEGMENT COUNTS (WITH FHWA CLASSIFICATION)

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tuesday, August 30, 2022
JOB #: SC3604

CITY: Cypress
LOCATION: CLASS3 Valley View north of Plaza

AM	WESTBOUND													
TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0:15	0	0	1	0	0	0	0	0	0	0	0	0	0	1
0:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0:45	0	2	0	0	0	0	0	0	0	0	0	0	0	2
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
3:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15	0	0	0	0	0	0	0	0	1	0	0	0	0	1
4:30	0	0	0	0	0	0	0	0	1	0	0	0	0	1
4:45	0	3	0	0	0	0	0	0	0	0	0	0	0	3
5:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
5:15	0	2	0	0	0	0	0	0	0	0	0	0	0	2
5:30	0	4	0	0	0	0	0	0	0	0	0	0	0	4
5:45	0	2	0	0	0	0	0	0	0	0	0	0	0	2
6:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
6:15	0	2	0	0	0	0	0	0	1	0	0	0	0	3
6:30	0	1	0	0	0	1	0	0	1	0	0	0	0	3
6:45	0	4	1	0	0	0	0	0	0	0	0	0	0	5
7:00	0	9	1	0	0	0	0	0	0	0	0	0	0	10
7:15	0	6	2	0	0	0	0	0	0	0	0	0	0	8
7:30	0	6	0	0	0	0	0	0	0	0	0	0	0	6
7:45	0	12	0	0	0	0	0	0	0	0	0	0	0	12
8:00	0	16	0	0	0	0	0	0	0	0	0	0	0	16
8:15	0	13	2	0	0	0	0	1	0	0	0	0	0	16
8:30	0	9	0	0	0	0	0	0	0	0	0	0	0	9
8:45	0	8	0	0	0	0	0	0	0	0	0	0	0	8
9:00	0	8	0	0	1	0	0	0	0	0	0	0	0	9
9:15	0	4	1	0	0	0	0	0	0	0	0	0	0	5
9:30	0	6	0	0	0	0	0	0	0	0	0	0	0	6
9:45	0	2	1	0	0	0	0	0	0	0	0	0	0	3
10:00	0	7	1	0	1	0	0	0	0	0	0	0	0	9
10:15	0	3	2	0	2	0	0	0	0	0	0	0	0	7
10:30	0	4	0	0	1	0	0	0	1	0	0	0	0	6
10:45	0	2	0	0	0	0	0	0	1	0	0	0	0	3
11:00	0	4	0	0	0	0	0	0	0	0	0	0	0	4
11:15	0	3	0	0	0	0	0	0	1	0	0	0	0	4
11:30	0	5	0	0	0	0	0	0	0	0	0	0	0	5
11:45	0	1	0	0	1	0	0	0	0	0	0	0	0	2
TOTAL	0	152	13	0	6	1	0	1	7	0	0	0	0	180

AM PEAK HOUR	7:45 AM
AM PEAK VOLUME	53

PM	WESTBOUND													
Time	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
12:00	0	5	0	0	1	0	0	1	0	0	0	0	0	7
12:15	0	7	2	0	0	0	0	0	1	0	0	0	0	10
12:30	0	6	2	0	1	0	0	0	0	0	0	0	0	9
12:45	0	9	1	0	1	0	0	0	2	0	0	0	0	13
13:00	0	11	1	0	0	0	0	0	0	0	0	0	0	12
13:15	0	8	0	0	0	0	0	0	0	0	0	0	0	8
13:30	0	4	0	0	0	0	0	0	1	0	0	0	0	5
13:45	0	5	0	0	0	0	0	0	0	0	0	0	0	5
14:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
14:15	0	1	1	0	0	0	0	0	1	0	0	0	0	3
14:30	0	4	0	0	0	0	0	0	0	0	0	0	0	4
14:45	0	7	0	0	0	0	0	0	0	0	0	0	0	7
15:00	0	3	1	0	0	2	0	0	0	0	0	0	0	6
15:15	0	2	3	0	0	0	0	0	0	0	0	0	0	5
15:30	0	3	0	0	1	0	0	0	0	0	0	0	0	4
15:45	0	4	0	0	0	0	0	0	0	0	0	0	0	4
16:00	0	4	2	0	0	0	0	0	0	0	0	0	0	6
16:15	0	2	0	0	0	0	0	0	0	0	0	0	0	2
16:30	0	2	0	0	0	0	0	0	0	0	0	0	0	2
16:45	0	4	1	0	1	0	0	0	0	0	0	0	0	6
17:00	0	8	0	0	0	0	0	0	0	0	0	0	0	8
17:15	0	7	0	0	0	0	0	0	0	0	0	0	0	7
17:30	0	8	0	0	0	0	0	0	0	0	0	0	0	8
17:45	0	2	0	0	0	0	0	0	0	0	0	0	0	2
18:00	0	5	0	0	0	0	0	0	0	0	0	0	0	5
18:15	0	3	0	0	0	0	0	0	0	0	0	0	0	3
18:30	0	4	0	0	0	0	0	0	0	0	0	0	0	4
18:45	0	3	0	0	0	0	0	0	0	0	0	0	0	3
19:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19:15	0	5	0	0	0	0	0	0	0	0	0	0	0	5
19:30	0	5	1	0	0	0	0	0	0	0	0	0	0	6
19:45	0	2	0	0	0	0	0	0	0	0	0	0	0	2
20:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
20:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20:30	0	0	1	0	0	0	0	0	0	0	0	0	0	1
20:45	0	1	0	0	0	0	0	0	0	0	0	0	0	1
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21:30	0	1	0	0	0	0	0	0	0	0	0	0	0	1
21:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
22:15	0	0	1	0	0	0	0	0	0	0	0	0	0	1
22:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22:45	0	1	0	0	0	0	0	0	0	0	0	0	0	1
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:15	0	1	0	0	0	0	0	0	0	0	0	0	0	1
23:30	0	2	0	0	0	0	0	0	0	0	0	0	0	2
23:45	0	1	0	0	0	0	0	0	0	0	0	0	0	1
TOTAL	0	155	18	0	5	2	0	1	5	0	0	0	0	186

PM PEAK HOUR	12:15 PM
PM PEAK VOLUME	44

CLASS 1	Class 1 — Motorcycles	**CLASS 8**	3 to 4 Axles, Single Trailer
CLASS 2	Passenger Cars	**CLASS 9**	5 Axles, Single Trailer
CLASS 3	2 Axles, 4-Tire Single Units	**CLASS 10**	6 or More Axles, Single Trailer
CLASS 4	Buses	**CLASS 11**	5 or Less Axles, Multi-Trailers
CLASS 5	2 Axles, 6-Tire Single Units	**CLASS 12**	6 Axles, Multi-Trailers
CLASS 6	3 Axles, Single Unit	**CLASS 13**	7 or More Axles, Multi-Trailers
CLASS 7	4 or More Axles, Single Unit		

TOTAL: AM+PM	0	307	31	0	11	3	0	2	12	0	0	0	0	366
% OF TOTAL	0.0%	83.9%	8.5%	0.0%	3.0%	0.8%	0.0%	0.5%	3.3%	0.0%	0.0%	0.0%	0.0%	100.0%

Class	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**

A816

24-HOUR ROADWAY SEGMENT COUNTS (WITH FHWA CLASSIFICATION)

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tuesday, August 30, 2022
JOB #: SC3604

CITY: Cypress
LOCATION: TMC1 Douglas and Katella

AM	NORTHBOUND													
TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
0:00	1	31	2	0	0	0	0	0	0	0	0	0	0	34
0:15	1	18	4	0	0	0	0	0	1	0	0	0	0	24
0:30	0	29	1	0	0	0	0	0	2	0	0	0	0	32
0:45	0	19	1	0	0	0	0	0	0	0	0	0	0	20
1:00	0	29	3	0	0	0	0	0	1	0	0	0	0	33
1:15	0	16	1	0	0	0	0	0	1	0	0	0	0	18
1:30	0	17	2	0	0	0	0	0	0	0	0	0	0	19
1:45	0	4	1	0	1	0	0	0	1	0	0	0	0	7
2:00	0	13	1	0	0	0	0	0	0	0	0	0	0	14
2:15	0	13	0	0	0	0	0	0	2	0	0	0	0	15
2:30	0	8	0	0	0	0	0	0	0	0	0	0	0	8
2:45	0	9	0	0	0	0	0	0	1	0	0	0	0	10
3:00	0	13	1	0	0	0	0	0	1	0	0	0	0	15
3:15	0	5	1	0	0	0	0	0	0	0	0	0	0	6
3:30	0	15	2	0	0	0	0	0	0	0	0	0	0	17
3:45	0	11	1	0	0	0	0	0	0	0	0	0	0	12
4:00	0	14	2	0	0	0	0	0	1	0	0	0	0	17
4:15	0	31	1	1	2	0	0	0	0	0	0	0	0	35
4:30	0	26	3	0	0	0	0	0	1	0	0	0	0	30
4:45	0	45	6	0	1	0	0	0	1	0	0	0	0	53
5:00	0	35	7	0	2	0	0	0	1	0	0	0	0	45
5:15	0	44	10	0	1	1	0	1	2	0	0	0	0	59
5:30	0	66	10	0	1	0	0	1	1	0	0	0	0	79
5:45	0	80	13	1	2	0	0	0	2	0	0	0	0	98
6:00	0	78	15	0	3	0	0	0	0	0	0	0	0	96
6:15	1	95	14	0	3	2	0	0	2	0	0	0	0	117
6:30	0	125	26	1	6	1	0	1	3	0	0	0	0	163
6:45	1	177	12	1	4	1	0	0	1	0	0	0	0	197
7:00	0	211	22	0	1	3	0	1	1	0	0	0	0	239
7:15	1	260	37	0	5	0	0	0	1	0	0	0	0	304
7:30	0	313	29	2	5	0	0	0	0	0	0	0	0	349
7:45	0	325	27	2	7	0	0	0	2	0	0	0	0	363
8:00	1	326	45	0	7	0	0	0	0	0	0	0	0	379
8:15	0	299	40	1	4	0	0	0	2	0	0	0	0	346
8:30	0	302	45	0	8	1	0	0	4	0	0	0	0	360
8:45	0	250	40	1	6	1	0	0	2	0	0	0	0	300
9:00	1	212	35	0	12	2	0	0	1	0	0	0	0	263
9:15	0	194	26	0	5	1	0	1	3	0	0	0	0	230
9:30	0	178	30	1	9	0	0	1	1	0	0	0	0	220
9:45	0	207	42	1	10	1	0	1	2	0	0	0	0	264
10:00	1	178	27	0	13	0	0	1	2	0	0	0	0	222
10:15	1	185	31	0	13	0	0	0	3	0	0	0	0	233
10:30	0	200	48	0	12	0	0	0	2	0	0	0	0	262
10:45	0	226	33	1	15	0	0	0	2	0	0	0	0	277
11:00	1	190	48	1	18	0	0	1	1	0	0	0	0	260
11:15	0	228	46	1	9	1	0	0	5	0	0	0	0	290
11:30	1	237	35	0	10	1	0	0	5	0	0	0	0	289
11:45	1	253	38	1	15	3	0	1	1	0	0	0	0	313
TOTAL	12	5,840	864	16	210	19	0	10	65	0	0	0	0	7,036

AM PEAK HOUR	7:45 AM
AM PEAK VOLUME	1,448

PM	NORTHBOUND													
Time	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
12:00	2	314	46	3	10	0	0	0	1	0	0	0	0	376
12:15	3	313	30	0	11	0	0	0	3	0	0	0	0	360
12:30	0	280	45	1	12	0	0	1	1	0	0	0	0	340
12:45	1	268	42	1	10	0	0	0	1	0	0	0	0	323
13:00	0	244	42	0	10	1	0	0	4	0	0	0	0	301
13:15	1	221	40	0	18	2	0	1	4	0	0	0	0	287
13:30	0	276	39	1	12	1	0	1	2	0	0	0	0	332
13:45	1	276	43	2	13	0	0	0	1	0	0	0	0	336
14:00	1	279	46	2	8	0	0	1	0	0	0	0	0	337
14:15	1	318	37	0	16	0	0	0	1	0	0	0	0	373
14:30	0	338	49	1	11	0	0	0	2	0	0	0	0	401
14:45	0	375	66	1	6	2	0	1	2	0	0	0	0	453
15:00	1	351	55	1	4	0	0	1	3	0	0	0	0	416
15:15	3	347	61	2	9	3	0	1	2	0	0	0	0	428
15:30	0	372	50	4	10	0	0	0	5	0	0	0	0	441
15:45	1	403	59	1	9	0	0	0	2	0	0	0	0	475
16:00	0	376	63	0	8	1	0	0	1	0	0	0	0	449
16:15	2	413	54	1	14	4	0	0	3	0	0	0	0	491
16:30	4	429	61	0	4	1	0	0	1	0	0	0	0	500
16:45	1	440	66	1	4	1	1	0	1	0	0	0	0	515
17:00	1	479	61	1	8	3	0	1	3	0	0	0	0	557
17:15	1	472	51	0	5	1	0	0	1	0	0	0	0	531
17:30	2	457	42	0	6	0	0	2	0	0	0	0	0	509
17:45	2	497	47	1	8	0	0	1	2	0	0	0	0	558
18:00	2	399	43	0	2	0	0	0	0	0	0	0	0	446
18:15	1	437	35	0	3	0	0	0	0	0	0	0	0	476
18:30	2	322	23	0	6	0	0	0	1	0	0	0	0	354
18:45	1	279	31	1	1	0	0	1	2	0	0	0	0	316
19:00	1	255	21	1	4	0	0	1	1	0	0	0	0	284
19:15	1	270	23	0	4	0	0	1	0	0	0	0	0	299
19:30	2	243	20	0	2	0	0	0	0	0	0	0	0	267
19:45	0	211	19	0	3	0	0	1	1	0	0	0	0	235
20:00	1	201	15	1	3	0	0	0	2	0	0	0	0	223
20:15	0	183	12	0	3	3	0	0	1	0	0	0	0	202
20:30	0	172	8	0	0	0	0	0	0	0	0	0	0	180
20:45	0	161	5	0	0	0	0	0	2	0	0	0	0	168
21:00	0	145	2	1	0	0	0	0	0	0	0	0	0	148
21:15	0	142	8	0	2	0	0	0	1	0	0	0	0	153
21:30	0	130	4	0	0	1	0	0	1	0	0	0	0	136
21:45	0	118	8	0	1	0	0	0	1	0	0	0	0	128
22:00	1	110	6	0	0	0	0	0	0	0	0	0	0	117
22:15	0	86	7	0	0	0	0	0	0	0	0	0	0	93
22:30	0	75	11	0	0	1	0	0	2	0	0	0	0	89
22:45	1	76	5	0	0	0	0	0	0	0	0	0	0	82
23:00	0	76	3	0	0	0	0	0	0	0	0	0	0	79
23:15	0	64	4	0	0	0	0	0	0	0	0	0	0	68
23:30	0	61	2	1	0	1	0	0	0	0	0	0	0	65
23:45	0	54	1	0	0	0	0	0	0	0	0	0	0	55
TOTAL	41	12,808	1,511	29	260	26	1	15	61	0	0	0	0	14,752

PM PEAK HOUR	5:00 PM
PM PEAK VOLUME	2,155

CLASS 1	Class 1 — Motorcycles	**CLASS 8**	3 to 4 Axles, Single Trailer
CLASS 2	Passenger Cars	**CLASS 9**	5 Axles, Single Trailer
CLASS 3	2 Axles, 4-Tire Single Units	**CLASS 10**	6 or More Axles, Single Trailer
CLASS 4	Buses	**CLASS 11**	5 or Less Axles, Multi-Trailers
CLASS 5	2 Axles, 6-Tire Single Units	**CLASS 12**	6 Axles, Multi-Trailers
CLASS 6	3 Axles, Single Unit	**CLASS 13**	7 or More Axles, Multi-Trailers
CLASS 7	4 or More Axles, Single Unit		

TOTAL: AM+PM	53	18,648	2,375	45	470	45	1	25	126	0	0	0	0	21,788
% OF TOTAL	0.2%	85.6%	10.9%	0.2%	2.2%	0.2%	0.0%	0.1%	0.6%	0.0%	0.0%	0.0%	0.0%	100.0%

Class	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	
TOTAL: ALL	105	35,765	4,738	91	985	88	4	51	244	0	0	0	0	42,071
% OF TOTAL	0.5%	164.1%	21.7%	0.4%	4.5%	0.4%	0.0%	0.2%	1.1%	0.0%	0.0%	0.0%	0.0%	100.0%

24-HOUR ROADWAY SEGMENT COUNTS (WITH FHWA CLASSIFICATION)

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tuesday, August 30, 2022
JOB #: SC3604

CITY: Cypress
LOCATION: TMC1 Douglas and Katella

AM	SOUTHBOUND													
TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
0:00	0	23	4	0	0	0	0	0	0	0	0	0	0	27
0:15	0	14	3	0	0	0	0	0	0	0	0	0	0	17
0:30	0	20	2	0	0	0	0	0	1	0	0	0	0	23
0:45	0	7	1	0	0	0	0	0	0	0	0	0	0	8
1:00	0	7	3	0	0	0	0	0	1	0	0	0	0	11
1:15	0	13	1	0	0	0	0	0	1	0	0	0	0	15
1:30	0	13	0	0	0	0	0	0	1	0	0	0	0	14
1:45	0	10	3	0	0	0	0	0	0	0	0	0	0	13
2:00	0	11	1	0	1	1	0	0	0	0	0	0	0	14
2:15	0	5	0	0	0	0	0	0	1	0	0	0	0	6
2:30	0	6	2	0	0	0	0	0	1	0	0	0	0	9
2:45	0	15	1	0	0	0	0	0	1	0	0	0	0	17
3:00	0	13	8	0	2	0	0	0	0	0	0	0	0	23
3:15	0	16	1	0	1	0	0	0	1	0	0	0	0	19
3:30	0	14	4	0	1	0	0	0	0	0	0	0	0	19
3:45	0	28	2	0	2	0	0	0	0	0	0	0	0	32
4:00	0	21	3	0	2	0	0	0	2	0	0	0	0	28
4:15	0	28	8	0	4	1	0	1	1	0	0	0	0	43
4:30	0	61	10	0	3	0	0	1	1	0	0	0	0	76
4:45	1	95	9	0	8	0	0	0	0	0	0	0	0	113
5:00	0	80	15	0	6	0	0	1	1	0	0	0	0	103
5:15	1	90	24	0	3	1	0	0	1	0	0	0	0	120
5:30	0	139	31	1	5	1	0	0	2	0	0	0	0	179
5:45	0	141	32	0	8	0	0	0	2	0	0	0	0	183
6:00	0	151	27	0	7	0	0	0	2	0	0	0	0	187
6:15	1	183	46	0	5	0	0	1	3	0	0	0	0	239
6:30	2	204	44	0	11	2	0	1	3	0	0	0	0	267
6:45	2	270	53	1	9	1	0	0	0	0	0	0	0	336
7:00	0	337	31	0	11	3	0	0	1	0	0	0	0	383
7:15	1	327	45	0	7	1	0	0	2	0	0	0	0	383
7:30	3	348	53	0	12	0	0	0	3	0	0	0	0	419
7:45	2	352	43	2	6	3	0	0	1	0	0	0	0	409
8:00	1	335	39	0	11	6	0	0	0	0	0	0	0	392
8:15	0	362	38	0	6	1	0	1	1	0	0	0	0	409
8:30	2	352	32	1	12	4	0	1	5	0	0	0	0	409
8:45	1	277	55	1	5	0	0	2	0	0	0	0	0	341
9:00	1	216	45	3	5	1	0	0	2	0	0	0	0	273
9:15	0	224	37	1	15	1	0	0	1	0	0	0	0	279
9:30	0	271	53	0	17	1	0	0	0	0	0	0	0	342
9:45	0	231	42	1	11	0	0	0	3	0	0	0	0	288
10:00	0	245	44	1	9	1	0	0	2	0	0	0	0	302
10:15	2	192	35	0	15	0	0	0	1	0	0	0	0	245
10:30	1	237	34	1	15	1	0	0	4	0	0	0	0	293
10:45	0	207	44	0	13	1	0	0	4	0	0	0	0	269
11:00	0	225	42	0	15	0	0	0	2	0	0	0	0	284
11:15	0	200	38	1	19	0	0	0	3	0	0	0	0	261
11:30	0	233	43	1	8	1	0	0	5	0	0	0	0	291
11:45	1	231	34	0	8	0	0	0	3	0	0	0	0	277
TOTAL	22	7,080	1,165	15	298	32	0	9	69	0	0	0	0	8,690

AM PEAK HOUR	7:30 AM
AM PEAK VOLUME	1,629

PM	SOUTHBOUND													
Time	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
12:00	0	265	32	0	9	0	0	1	1	0	0	0	0	308
12:15	2	280	32	1	14	0	0	0	2	0	0	0	0	331
12:30	5	262	33	0	10	0	0	0	3	0	0	0	0	313
12:45	0	258	42	1	12	1	0	0	0	0	0	0	0	314
13:00	0	292	44	1	6	0	0	0	1	0	0	0	0	344
13:15	1	259	29	0	10	0	0	0	4	0	0	0	0	303
13:30	0	257	32	1	12	1	0	1	1	0	0	0	0	305
13:45	0	271	36	1	5	1	0	0	1	0	0	0	0	315
14:00	0	212	38	0	10	0	0	1	1	0	0	0	0	262
14:15	0	269	49	0	7	0	0	1	3	0	0	0	0	329
14:30	0	310	41	2	5	0	0	0	2	0	0	0	0	360
14:45	1	260	33	2	5	2	0	1	0	0	0	0	0	304
15:00	1	329	30	2	6	1	0	0	2	0	0	0	0	371
15:15	0	293	40	1	8	0	0	1	1	0	0	0	0	344
15:30	0	339	43	3	7	1	0	2	1	0	0	0	0	396
15:45	0	282	42	2	8	0	0	2	1	0	0	0	0	337
16:00	1	314	43	3	7	0	0	1	2	0	0	0	0	371
16:15	1	259	32	2	3	1	0	0	0	0	0	0	0	298
16:30	1	344	44	1	6	0	2	0	1	0	0	0	0	399
16:45	2	304	49	1	4	0	1	1	1	0	0	0	0	363
17:00	0	331	36	0	3	0	0	0	0	0	0	0	0	370
17:15	2	312	38	1	5	0	0	0	1	0	0	0	0	359
17:30	1	315	33	0	7	0	0	0	0	0	0	0	0	356
17:45	0	293	34	1	3	0	0	1	2	0	0	0	0	334
18:00	0	280	26	0	6	0	0	0	0	0	0	0	0	312
18:15	0	280	38	0	6	0	0	1	2	0	0	0	0	327
18:30	0	274	26	0	2	1	0	2	2	0	0	0	0	307
18:45	1	225	29	1	2	0	0	0	0	0	0	0	0	258
19:00	2	201	20	0	3	0	0	0	0	0	0	0	0	226
19:15	2	212	13	0	7	0	0	0	1	0	0	0	0	235
19:30	0	184	18	0	2	0	0	1	1	0	0	0	0	206
19:45	0	160	11	1	3	0	0	0	1	0	0	0	0	176
20:00	2	151	17	0	3	1	0	0	1	0	0	0	0	175
20:15	0	130	24	0	2	1	0	0	1	0	0	0	0	158
20:30	2	123	11	0	2	0	0	0	2	0	0	0	0	140
20:45	0	126	13	1	3	0	0	0	0	0	0	0	0	143
21:00	0	101	6	0	0	0	0	0	2	0	0	0	0	109
21:15	0	97	11	0	1	0	0	0	0	0	0	0	0	109
21:30	1	83	4	0	1	0	0	0	3	0	0	0	0	92
21:45	0	80	3	1	0	0	0	0	0	0	0	0	0	84
22:00	2	81	2	0	0	0	0	0	0	0	0	0	0	85
22:15	0	72	6	0	0	0	0	0	0	0	0	0	0	78
22:30	0	65	3	0	0	0	0	0	0	0	0	0	0	68
22:45	0	52	4	0	1	0	0	0	1	0	0	0	0	58
23:00	0	42	3	0	0	0	0	0	0	0	0	0	0	45
23:15	0	39	2	1	0	0	0	0	1	0	0	0	0	43
23:30	0	36	1	0	1	0	0	0	0	0	0	0	0	38
23:45	0	33	2	0	0	0	0	0	0	0	0	0	0	35
TOTAL	30	####	1,198	31	217	11	3	17	49	0	0	0	0	11,593

PM PEAK HOUR	4:30 PM
PM PEAK VOLUME	1,491

TOTAL: AM+PM	52	####	2,363	46	515	43	3	26	118	0	0	0	0	20,283
% OF TOTAL	0.3%	84.4%	11.7%	0.2%	2.5%	0.2%	0.0%	0.1%	0.6%	0.0%	0.0%	0.0%	0.0%	100.0%

Class	1	2	3	4	5	6	7	8	9	10	11	12	13

CLASS 1	Class 1 — Motorcycles	**CLASS 8**	3 to 4 Axles, Single Trailer
CLASS 2	Passenger Cars	**CLASS 9**	5 Axles, Single Trailer
CLASS 3	2 Axles, 4-Tire Single Units	**CLASS 10**	6 or More Axles, Single Trailer
CLASS 4	Buses	**CLASS 11**	5 or Less Axles, Multi-Trailers
CLASS 5	2 Axles, 6-Tire Single Units	**CLASS 12**	6 Axles, Multi-Trailers
CLASS 6	3 Axles, Single Unit	**CLASS 13**	7 or More Axles, Multi-Trailers
CLASS 7	4 or More Axles, Single Unit		

APPENDIX 3.2: EXISTING (2023) CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	27	1702	72	12	1782	34	26	2	2	1	15
Future Volume (vph)	27	1702	72	12	1782	34	26	2	2	1	15
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Perm	NA	Perm	NA	Perm
Protected Phases	5	2		1	6			8		4	
Permitted Phases			2			6	8		4		4
Detector Phase	5	2	2	1	6	6	8	8	4	4	4
Switch Phase											
Minimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Minimum Split (s)	9.6	22.8	22.8	9.6	22.8	22.8	40.6	40.6	40.6	40.6	40.6
Total Split (s)	10.0	78.0	78.0	10.0	78.0	78.0	42.0	42.0	42.0	42.0	42.0
Total Split (%)	7.7%	60.0%	60.0%	7.7%	60.0%	60.0%	32.3%	32.3%	32.3%	32.3%	32.3%
Yellow Time (s)	3.6	4.8	4.8	3.6	4.8	4.8	3.6	3.6	3.6	3.6	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	5.8	4.6	5.8	5.8	4.6	4.6	4.6	4.6	4.6
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag					
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes					
Recall Mode	None	C-Max	C-Max	None	C-Max	C-Max	None	None	None	None	None
Act Effct Green (s)	6.2	102.9	102.9	5.7	100.5	100.5	20.4	20.4	20.4	20.4	20.4
Actuated g/C Ratio	0.05	0.79	0.79	0.04	0.77	0.77	0.16	0.16	0.16	0.16	0.16
v/c Ratio	0.37	0.48	0.07	0.18	0.52	0.03	0.13	0.03	0.01	0.00	0.06
Control Delay	73.3	10.9	4.8	65.4	12.1	1.7	42.7	24.3	36.5	36.0	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	73.3	10.9	4.8	65.4	12.1	1.7	42.7	24.3	36.5	36.0	0.4
LOS	E	B	A	E	B	A	D	C	D	D	A
Approach Delay		11.6			12.3			38.9		6.1	
Approach LOS		B			B			D		A	

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 130	
Offset: 0 (0%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow	
Natural Cycle: 90	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.52	
Intersection Signal Delay: 12.1	Intersection LOS: B
Intersection Capacity Utilization 68.4%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 1: Douglas Dr. & Katella Av.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	27	1702	72	12	1782	34	26	2	5	2	1	15
Future Volume (veh/h)	27	1702	72	12	1782	34	26	2	5	2	1	15
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	0.99		0.98	1.00		0.98
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	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adj Flow Rate, veh/h	28	1773	67	12	1856	30	27	2	2	2	1	6
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	40	3802	1155	22	3751	1139	121	40	40	119	88	73
Arrive On Green	0.02	0.82	0.82	0.01	0.81	0.81	0.05	0.05	0.05	0.05	0.05	0.05
Sat Flow, veh/h	1619	4641	1410	1619	4641	1409	1273	771	771	1284	1700	1414
Grp Volume(v), veh/h	28	1773	67	12	1856	30	27	0	4	2	1	6
Grp Sat Flow(s),veh/h/ln	1619	1547	1410	1619	1547	1409	1273	0	1542	1284	1700	1414
Q Serve(g_s), s	2.2	14.5	1.2	1.0	16.6	0.5	2.7	0.0	0.3	0.2	0.1	0.5
Cycle Q Clear(g_c), s	2.2	14.5	1.2	1.0	16.6	0.5	2.7	0.0	0.3	0.5	0.1	0.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.50	1.00		1.00
Lane Grp Cap(c), veh/h	40	3802	1155	22	3751	1139	121	0	80	119	88	73
V/C Ratio(X)	0.71	0.47	0.06	0.55	0.49	0.03	0.22	0.00	0.05	0.02	0.01	0.08
Avail Cap(c_a), veh/h	67	3802	1155	67	3751	1139	421	0	444	422	489	407
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	1.00	1.00
Uniform Delay (d), s/veh	62.9	3.4	2.2	63.7	4.0	2.4	59.8	0.0	58.6	58.8	58.5	58.7
Incr Delay (d2), s/veh	8.3	0.4	0.1	7.7	0.5	0.0	0.9	0.0	0.3	0.1	0.1	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	1.0	3.0	0.2	0.4	3.7	0.1	0.9	0.0	0.1	0.1	0.0	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	71.2	3.8	2.3	71.4	4.4	2.5	60.7	0.0	58.8	58.9	58.5	59.2
LnGrp LOS	E	A	A	E	A	A	E	A	E	E	E	E
Approach Vol, veh/h		1868			1898			31			9	
Approach Delay, s/veh		4.8			4.8			60.5			59.0	
Approach LOS		A			A			E			E	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.4	112.3		11.3	7.8	110.9		11.3				
Change Period (Y+Rc), s	4.6	5.8		4.6	4.6	5.8		4.6				
Max Green Setting (Gmax), s	5.4	72.2		37.4	5.4	72.2		37.4				
Max Q Clear Time (g_c+I1), s	3.0	16.5		2.5	4.2	18.6		4.7				
Green Ext Time (p_c), s	0.0	20.4		0.0	0.0	21.5		0.1				

Intersection Summary			
HCM 6th Ctrl Delay		5.4	
HCM 6th LOS		A	

Notes

User approved pedestrian interval to be less than phase max green.

Goodman Commerce Center (JN 15593)
Existing (2023)
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #1 Douglas Dr. & Katella Av.

Cycle (sec):	100	Critical Vol./Cap.(X):	0.439
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	21	Level Of Service:	A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	1 0	0	1 0	1 0	1	0 1	1 0	3	0 1	1 0	3	0 1
Volume Module:												
Base Vol:	26	2	5	2	1	15	27	1702	72	12	1782	34
Growth 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
Initial Bse:	26	2	5	2	1	15	27	1702	72	12	1782	34
User 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
PHF 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
PHF Volume:	26	2	5	2	1	15	27	1702	72	12	1782	34
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	26	2	5	2	1	15	27	1702	72	12	1782	34
PCE 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
MLF 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
FinalVolume:	26	2	5	2	1	15	27	1702	72	12	1782	34
Saturation Flow Module:												
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.29	0.71	1.00	1.00	1.00	1.00	3.00	1.00	1.00	3.00	1.00
Final Sat.:	1700	486	1214	1700	1700	1700	1700	5100	1700	1700	5100	1700
Capacity Analysis Module:												
Vol/Sat:	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.33	0.04	0.01	0.35	0.01
Crit Moves:	****					****	****				****	

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Intersection	
Intersection Delay, s/veh	7.2
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	53	0	0	0	0	21	0	0	0
Future Vol, veh/h	0	0	0	53	0	0	0	0	21	0	0	0
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	62	0	0	0	0	24	0	0	0
Number of Lanes	0	0	0	1	0	0	0	0	1	0	0	0

Approach	WB	NB
Opposing Approach		
Opposing Lanes	0	0
Conflicting Approach Left	NB	
Conflicting Lanes Left	1	0
Conflicting Approach Right		WB
Conflicting Lanes Right	0	1
HCM Control Delay	7.5	6.5
HCM LOS	A	A

Lane	NBLn1	WBLn1
Vol Left, %	0%	100%
Vol Thru, %	0%	0%
Vol Right, %	100%	0%
Sign Control	Stop	Stop
Traffic Vol by Lane	21	53
LT Vol	0	53
Through Vol	0	0
RT Vol	21	0
Lane Flow Rate	24	62
Geometry Grp	1	1
Degree of Util (X)	0.023	0.071
Departure Headway (Hd)	3.408	4.143
Convergence, Y/N	Yes	Yes
Cap	1047	870
Service Time	1.439	2.145
HCM Lane V/C Ratio	0.023	0.071
HCM Control Delay	6.5	7.5
HCM Lane LOS	A	A
HCM 95th-tile Q	0.1	0.2

Intersection	
Int Delay, s/veh	4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	23	0	8	104	4	19	2	77	0	0	0
Future Vol, veh/h	0	23	0	8	104	4	19	2	77	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	100	-	-	100	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	1	-	-	1	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	85	85	85	85	85	85	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	27	0	9	122	5	22	2	91	0	0	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	127	0	0	27	0	0	170	172	27	217	170	125
Stage 1	-	-	-	-	-	-	27	27	-	143	143	-
Stage 2	-	-	-	-	-	-	143	145	-	74	27	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1472	-	-	1600	-	-	798	725	1054	744	727	931
Stage 1	-	-	-	-	-	-	996	877	-	865	782	-
Stage 2	-	-	-	-	-	-	865	781	-	940	877	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1472	-	-	1600	-	-	795	721	1054	676	723	931
Mov Cap-2 Maneuver	-	-	-	-	-	-	771	695	-	699	696	-
Stage 1	-	-	-	-	-	-	996	877	-	865	777	-
Stage 2	-	-	-	-	-	-	860	776	-	857	877	-

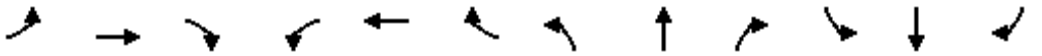
Approach	EB	WB	NB	SB
HCM Control Delay, s	0	0.5	9.2	0
HCM LOS			A	A

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	974	1472	-	-	1600	-	-	-
HCM Lane V/C Ratio	0.118	-	-	-	0.006	-	-	-
HCM Control Delay (s)	9.2	0	-	-	7.3	-	-	0
HCM Lane LOS	A	A	-	-	A	-	-	A
HCM 95th %tile Q(veh)	0.4	0	-	-	0	-	-	-

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	9	9	12	0	22	1516	254	1551
Future Volume (vph)	9	9	12	0	22	1516	254	1551
Turn Type	Perm	NA	Perm	NA	Prot	NA	Prot	NA
Protected Phases		4		8	5	2	1	6
Permitted Phases	4		8					
Detector Phase	4	4	8	8	5	2	1	6
Switch Phase								
Minimum Initial (s)	10.0	10.0	10.0	10.0	5.0	10.0	5.0	10.0
Minimum Split (s)	37.6	37.6	14.6	14.6	9.6	22.8	9.6	22.8
Total Split (s)	38.0	38.0	38.0	38.0	11.0	61.0	31.0	81.0
Total Split (%)	29.2%	29.2%	29.2%	29.2%	8.5%	46.9%	23.8%	62.3%
Yellow Time (s)	3.6	3.6	3.6	3.6	3.6	4.8	3.6	4.8
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	4.6	4.6	4.6	4.6	5.8	4.6	5.8
Lead/Lag					Lead	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	C-Max	None	C-Max
Act Effct Green (s)	19.2	19.2	19.2	19.2	6.0	75.0	23.7	97.8
Actuated g/C Ratio	0.15	0.15	0.15	0.15	0.05	0.58	0.18	0.75
v/c Ratio	0.05	0.10	0.06	0.08	0.30	0.65	0.87	0.50
Control Delay	40.8	23.4	41.4	0.3	70.0	23.8	79.8	10.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	40.8	23.4	41.4	0.3	70.0	23.8	79.8	10.9
LOS	D	C	D	A	E	C	E	B
Approach Delay		28.1		10.0		24.4		19.9
Approach LOS		C		A		C		B

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 130	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 100	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.87	
Intersection Signal Delay: 21.9	Intersection LOS: C
Intersection Capacity Utilization 75.7%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 4: Valley View St. & Plaza Dr./Chip Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	9	9	15	12	0	39	22	1516	181	254	1551	154
Future Volume (veh/h)	9	9	15	12	0	39	22	1516	181	254	1551	154
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	0.99		1.00	1.00		0.98	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	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adj Flow Rate, veh/h	9	9	10	12	0	33	22	1531	181	257	1567	153
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	105	45	50	118	0	89	34	2728	322	279	3446	336
Arrive On Green	0.06	0.06	0.06	0.06	0.00	0.06	0.02	0.65	0.65	0.17	0.80	0.80
Sat Flow, veh/h	1251	731	812	1250	0	1441	1619	4195	495	1619	4299	419
Grp Volume(v), veh/h	9	0	19	12	0	33	22	1129	583	257	1127	593
Grp Sat Flow(s),veh/h/ln	1251	0	1543	1250	0	1441	1619	1547	1597	1619	1547	1624
Q Serve(g_s), s	0.9	0.0	1.5	1.2	0.0	2.9	1.8	26.1	26.2	20.3	14.8	14.8
Cycle Q Clear(g_c), s	3.8	0.0	1.5	2.7	0.0	2.9	1.8	26.1	26.2	20.3	14.8	14.8
Prop In Lane	1.00		0.53	1.00		1.00	1.00		0.31	1.00		0.26
Lane Grp Cap(c), veh/h	105	0	95	118	0	89	34	2012	1038	279	2481	1302
V/C Ratio(X)	0.09	0.00	0.20	0.10	0.00	0.37	0.64	0.56	0.56	0.92	0.45	0.46
Avail Cap(c_a), veh/h	349	0	396	362	0	370	80	2012	1038	329	2481	1302
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	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	60.4	0.0	57.9	59.2	0.0	58.6	63.1	12.5	12.5	52.9	4.0	4.0
Incr Delay (d2), s/veh	0.3	0.0	1.0	0.4	0.0	2.6	7.3	1.1	2.2	25.8	0.6	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	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	0.6	0.4	0.0	1.1	0.8	8.4	9.0	10.0	3.4	3.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	60.7	0.0	58.9	59.6	0.0	61.1	70.5	13.7	14.7	78.7	4.6	5.2
LnGrp LOS	E	A	E	E	A	E	E	B	B	E	A	A
Approach Vol, veh/h		28			45			1734			1977	
Approach Delay, s/veh		59.5			60.7			14.7			14.4	
Approach LOS		E			E			B			B	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	27.0	90.3		12.6	7.3	110.0		12.6				
Change Period (Y+Rc), s	4.6	5.8		4.6	4.6	5.8		4.6				
Max Green Setting (Gmax), s	26.4	55.2		33.4	6.4	75.2		33.4				
Max Q Clear Time (g_c+I1), s	22.3	28.2		5.8	3.8	16.8		4.9				
Green Ext Time (p_c), s	0.1	13.4		0.1	0.0	17.6		0.2				

Intersection Summary			
HCM 6th Ctrl Delay		15.4	
HCM 6th LOS		B	

Goodman Commerce Center (JN 15593)
Existing (2023)
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #4 Valley View St. & Plaza Dr.

Cycle (sec):	100	Critical Vol./Cap.(X):	0.560
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	27	Level Of Service:	A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	1 0	2	1 0	1 0	2	1 0	1 0	0	1 0	1 0	0	1 0
Volume Module:												
Base Vol:	22	1516	181	254	1551	154	9	9	15	12	0	39
Growth 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
Initial Bse:	22	1516	181	254	1551	154	9	9	15	12	0	39
User 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
PHF 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
PHF Volume:	22	1516	181	254	1551	154	9	9	15	12	0	39
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	22	1516	181	254	1551	154	9	9	15	12	0	39
PCE 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
MLF 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
FinalVolume:	22	1516	181	254	1551	154	9	9	15	12	0	39
Saturation Flow Module:												
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.68	0.32	1.00	2.73	0.27	1.00	0.38	0.62	1.00	0.00	1.00
Final Sat.:	1700	4556	544	1700	4639	461	1700	638	1063	1700	0	1700
Capacity Analysis Module:												
Vol/Sat:	0.01	0.33	0.33	0.15	0.33	0.33	0.01	0.01	0.01	0.01	0.00	0.02
Crit Moves:		****			****			****				****

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Goodman Commerce Center (JN 15593)
Existing (2023)
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #1 Douglas Dr. & Katella Av.

Cycle (sec):	100	Critical Vol./Cap.(X):	0.517
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	24	Level Of Service:	A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	1 0	0 1	0	1 0	1 0	1	1 0	3 0	1	1 0	3 0	1
Volume Module:												
Base Vol:	83	1	7	26	2	47	11	1963	32	9	1608	6
Growth 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
Initial Bse:	83	1	7	26	2	47	11	1963	32	9	1608	6
User 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
PHF 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
PHF Volume:	83	1	7	26	2	47	11	1963	32	9	1608	6
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	83	1	7	26	2	47	11	1963	32	9	1608	6
PCE 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
MLF 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
FinalVolume:	83	1	7	26	2	47	11	1963	32	9	1608	6
Saturation Flow Module:												
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.12	0.88	1.00	1.00	1.00	1.00	3.00	1.00	1.00	3.00	1.00
Final Sat.:	1700	213	1488	1700	1700	1700	1700	5100	1700	1700	5100	1700
Capacity Analysis Module:												
Vol/Sat:	0.05	0.00	0.00	0.02	0.00	0.03	0.01	0.38	0.02	0.01	0.32	0.00
Crit Moves:	****					****		****		****		

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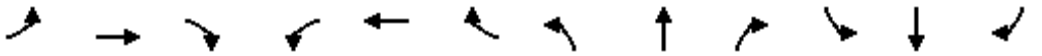
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	11	1963	32	9	1608	6	83	1	26	2	47
Future Volume (vph)	11	1963	32	9	1608	6	83	1	26	2	47
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Perm	NA	Perm	NA	Perm
Protected Phases	5	2		1	6			8		4	
Permitted Phases			2			6	8		4		4
Detector Phase	5	2	2	1	6	6	8	8	4	4	4
Switch Phase											
Minimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Minimum Split (s)	9.6	22.8	22.8	9.6	22.8	22.8	40.6	40.6	40.6	40.6	40.6
Total Split (s)	10.0	78.0	78.0	10.0	78.0	78.0	42.0	42.0	42.0	42.0	42.0
Total Split (%)	7.7%	60.0%	60.0%	7.7%	60.0%	60.0%	32.3%	32.3%	32.3%	32.3%	32.3%
Yellow Time (s)	3.6	4.8	4.8	3.6	4.8	4.8	3.6	3.6	3.6	3.6	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	5.8	4.6	5.8	5.8	4.6	4.6	4.6	4.6	4.6
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag					
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes					
Recall Mode	None	C-Max	C-Max	None	C-Max	C-Max	None	None	None	None	None
Act Effct Green (s)	5.7	95.6	95.6	5.6	93.4	93.4	21.8	21.8	21.8	21.8	21.8
Actuated g/C Ratio	0.04	0.74	0.74	0.04	0.72	0.72	0.17	0.17	0.17	0.17	0.17
v/c Ratio	0.17	0.65	0.03	0.14	0.54	0.01	0.43	0.04	0.14	0.01	0.18
Control Delay	65.0	13.0	1.8	64.1	12.4	0.0	51.5	19.6	41.8	36.0	8.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	65.0	13.0	1.8	64.1	12.4	0.0	51.5	19.6	41.8	36.0	8.1
LOS	E	B	A	E	B	A	D	B	D	D	A
Approach Delay		13.1			12.6			48.7		20.4	
Approach LOS		B			B			D		C	

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 130	
Offset: 0 (0%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow	
Natural Cycle: 100	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.65	
Intersection Signal Delay: 13.9	Intersection LOS: B
Intersection Capacity Utilization 63.9%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 1: Douglas Dr. & Katella Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	11	1963	32	9	1608	6	83	1	7	26	2	47
Future Volume (veh/h)	11	1963	32	9	1608	6	83	1	7	26	2	47
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		1.00	1.00		0.99
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	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adj Flow Rate, veh/h	12	2206	30	10	1807	7	93	1	4	29	2	19
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	22	3641	1105	19	3632	1104	166	26	105	165	150	126
Arrive On Green	0.01	0.78	0.78	0.01	0.78	0.78	0.09	0.09	0.09	0.09	0.09	0.09
Sat Flow, veh/h	1619	4641	1409	1619	4641	1410	1264	297	1189	1283	1700	1420
Grp Volume(v), veh/h	12	2206	30	10	1807	7	93	0	5	29	2	19
Grp Sat Flow(s),veh/h/ln	1619	1547	1409	1619	1547	1410	1264	0	1486	1283	1700	1420
Q Serve(g_s), s	1.0	25.4	0.6	0.8	18.0	0.1	9.4	0.0	0.4	2.8	0.1	1.6
Cycle Q Clear(g_c), s	1.0	25.4	0.6	0.8	18.0	0.1	9.6	0.0	0.4	3.2	0.1	1.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.80	1.00		1.00
Lane Grp Cap(c), veh/h	22	3641	1105	19	3632	1104	166	0	132	165	150	126
V/C Ratio(X)	0.55	0.61	0.03	0.53	0.50	0.01	0.56	0.00	0.04	0.18	0.01	0.15
Avail Cap(c_a), veh/h	67	3641	1105	67	3632	1104	418	0	428	420	489	408
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	1.00	1.00
Uniform Delay (d), s/veh	63.7	5.8	3.1	63.9	5.0	3.1	58.4	0.0	54.2	55.6	54.1	54.7
Incr Delay (d2), s/veh	7.7	0.8	0.0	8.3	0.5	0.0	2.9	0.0	0.1	0.5	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	0.4	6.2	0.1	0.4	4.4	0.0	3.2	0.0	0.2	0.9	0.1	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	71.4	6.5	3.1	72.2	5.5	3.1	61.4	0.0	54.3	56.1	54.1	55.3
LnGrp LOS	E	A	A	E	A	A	E	A	D	E	D	E
Approach Vol, veh/h		2248			1824			98			50	
Approach Delay, s/veh		6.8			5.9			61.0			55.7	
Approach LOS		A			A			E			E	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.1	107.8		16.1	6.4	107.5		16.1				
Change Period (Y+Rc), s	4.6	5.8		4.6	4.6	5.8		4.6				
Max Green Setting (Gmax), s	5.4	72.2		37.4	5.4	72.2		37.4				
Max Q Clear Time (g_c+I1), s	2.8	27.4		5.2	3.0	20.0		11.6				
Green Ext Time (p_c), s	0.0	26.4		0.1	0.0	20.2		0.3				

Intersection Summary			
HCM 6th Ctrl Delay		8.2	
HCM 6th LOS		A	

Intersection	
Intersection Delay, s/veh	7.7
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	100	0	0	0	0	24	0	0	0
Future Vol, veh/h	0	0	0	100	0	0	0	0	24	0	0	0
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	133	0	0	0	0	32	0	0	0
Number of Lanes	0	0	0	1	0	0	0	0	1	0	0	0

Approach	WB	NB
Opposing Approach		
Opposing Lanes	0	0
Conflicting Approach Left	NB	
Conflicting Lanes Left	1	0
Conflicting Approach Right		WB
Conflicting Lanes Right	0	1
HCM Control Delay	7.9	6.7
HCM LOS	A	A

Lane	NBLn1	WBLn1
Vol Left, %	0%	100%
Vol Thru, %	0%	0%
Vol Right, %	100%	0%
Sign Control	Stop	Stop
Traffic Vol by Lane	24	100
LT Vol	0	100
Through Vol	0	0
RT Vol	24	0
Lane Flow Rate	32	133
Geometry Grp	1	1
Degree of Util (X)	0.031	0.154
Departure Headway (Hd)	3.533	4.155
Convergence, Y/N	Yes	Yes
Cap	1000	867
Service Time	1.601	2.161
HCM Lane V/C Ratio	0.032	0.153
HCM Control Delay	6.7	7.9
HCM Lane LOS	A	A
HCM 95th-tile Q	0.1	0.5

Intersection	
Int Delay, s/veh	1.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	86	2	11	80	0	5	0	9	0	3	0
Future Vol, veh/h	0	86	2	11	80	0	5	0	9	0	3	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	100	-	-	100	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	1	-	-	1	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	63	63	63	63	63	63	63	63	63	63	63	63
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	137	3	17	127	0	8	0	14	0	5	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	127	0	0	140	0	0	303	300	139	307	301	127
Stage 1	-	-	-	-	-	-	139	139	-	161	161	-
Stage 2	-	-	-	-	-	-	164	161	-	146	140	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1472	-	-	1456	-	-	653	616	915	649	615	929
Stage 1	-	-	-	-	-	-	869	785	-	846	769	-
Stage 2	-	-	-	-	-	-	843	769	-	861	785	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1472	-	-	1456	-	-	643	609	915	633	608	929
Mov Cap-2 Maneuver	-	-	-	-	-	-	680	630	-	671	626	-
Stage 1	-	-	-	-	-	-	869	785	-	846	760	-
Stage 2	-	-	-	-	-	-	828	760	-	848	785	-

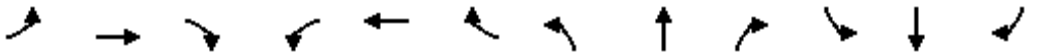
Approach	EB	WB	NB	SB
HCM Control Delay, s	0	0.9	9.5	10.8
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	814	1472	-	-	1456	-	-	626
HCM Lane V/C Ratio	0.027	-	-	-	0.012	-	-	0.008
HCM Control Delay (s)	9.5	0	-	-	7.5	-	-	10.8
HCM Lane LOS	A	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	0.1	0	-	-	0	-	-	0

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	168	0	162	30	4	1967	52	1503
Future Volume (vph)	168	0	162	30	4	1967	52	1503
Turn Type	Perm	NA	Perm	NA	Prot	NA	Prot	NA
Protected Phases		4		8	5	2	1	6
Permitted Phases	4		8					
Detector Phase	4	4	8	8	5	2	1	6
Switch Phase								
Minimum Initial (s)	10.0	10.0	10.0	10.0	5.0	10.0	5.0	10.0
Minimum Split (s)	37.6	37.6	14.6	14.6	9.6	22.8	9.6	22.8
Total Split (s)	50.0	50.0	50.0	50.0	11.0	69.0	11.0	69.0
Total Split (%)	38.5%	38.5%	38.5%	38.5%	8.5%	53.1%	8.5%	53.1%
Yellow Time (s)	3.6	3.6	3.6	3.6	3.6	4.8	3.6	4.8
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	4.6	4.6	4.6	4.6	5.8	4.6	5.8
Lead/Lag					Lead	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	C-Max	None	C-Max
Act Effct Green (s)	45.4	45.4	45.4	45.4	5.2	65.4	6.2	72.1
Actuated g/C Ratio	0.35	0.35	0.35	0.35	0.04	0.50	0.05	0.55
v/c Ratio	0.99	0.11	0.40	0.69	0.06	0.88	0.71	0.62
Control Delay	107.9	0.9	35.5	33.8	62.0	35.2	104.3	21.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	107.9	0.9	35.5	33.8	62.0	35.2	104.3	21.4
LOS	F	A	D	C	E	D	F	C
Approach Delay		79.2		34.3		35.2		24.1
Approach LOS		E		C		D		C

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 130	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 90	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.99	
Intersection Signal Delay: 33.4	Intersection LOS: C
Intersection Capacity Utilization 97.5%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 4: Valley View St. & Plaza Dr./Chip Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	168	0	61	162	30	355	4	1967	12	52	1503	23
Future Volume (veh/h)	168	0	61	162	30	355	4	1967	12	52	1503	23
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.98	1.00		0.97
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	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adj Flow Rate, veh/h	175	0	44	169	31	311	4	2049	12	54	1566	21
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	197	0	503	462	46	464	8	2351	14	67	2501	34
Arrive On Green	0.35	0.00	0.35	0.35	0.35	0.35	0.01	0.49	0.49	0.04	0.53	0.53
Sat Flow, veh/h	944	0	1439	1237	132	1328	1619	4760	28	1619	4717	63
Grp Volume(v), veh/h	175	0	44	169	0	342	4	1331	730	54	1027	560
Grp Sat Flow(s),veh/h/ln	944	0	1439	1237	0	1461	1619	1547	1694	1619	1547	1687
Q Serve(g_s), s	19.5	0.0	2.7	13.8	0.0	25.9	0.3	49.7	49.8	4.3	30.3	30.4
Cycle Q Clear(g_c), s	45.4	0.0	2.7	16.5	0.0	25.9	0.3	49.7	49.8	4.3	30.3	30.4
Prop In Lane	1.00		1.00	1.00		0.91	1.00		0.02	1.00		0.04
Lane Grp Cap(c), veh/h	197	0	503	462	0	510	8	1528	837	67	1640	894
V/C Ratio(X)	0.89	0.00	0.09	0.37	0.00	0.67	0.48	0.87	0.87	0.80	0.63	0.63
Avail Cap(c_a), veh/h	197	0	503	462	0	510	80	1528	837	80	1640	894
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	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.1	0.0	28.4	33.9	0.0	35.9	64.5	29.2	29.2	61.8	21.5	21.5
Incr Delay (d2), s/veh	35.0	0.0	0.1	0.5	0.0	3.4	14.8	7.1	12.1	32.4	1.8	3.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.8	0.0	1.0	4.3	0.0	9.8	0.2	18.7	21.7	2.3	10.7	12.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	92.0	0.0	28.5	34.4	0.0	39.3	79.3	36.3	41.4	94.2	23.3	24.8
LnGrp LOS	F	A	C	C	A	D	E	D	D	F	C	C
Approach Vol, veh/h		219			511			2065			1641	
Approach Delay, s/veh		79.3			37.7			38.2			26.1	
Approach LOS		E			D			D			C	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	10.0	70.0		50.0	5.3	74.7		50.0				
Change Period (Y+Rc), s	4.6	5.8		4.6	4.6	5.8		4.6				
Max Green Setting (Gmax), s	6.4	63.2		45.4	6.4	63.2		45.4				
Max Q Clear Time (g_c+I1), s	6.3	51.8		47.4	2.3	32.4		27.9				
Green Ext Time (p_c), s	0.0	8.8		0.0	0.0	12.6		2.8				

Intersection Summary			
HCM 6th Ctrl Delay		35.7	
HCM 6th LOS		D	

Goodman Commerce Center (JN 15593)
Existing (2023)
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #4 Valley View St. & Plaza Dr.

Cycle (sec):	100	Critical Vol./Cap.(X):	0.794
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	51	Level Of Service:	C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	1 0	2	1 0	1 0	2	1 0	1 0	0	1 0	1 0	0	1 0
Volume Module:												
Base Vol:	4	1967	12	52	1503	23	168	0	61	162	30	355
Growth 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
Initial Bse:	4	1967	12	52	1503	23	168	0	61	162	30	355
User 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
PHF 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
PHF Volume:	4	1967	12	52	1503	23	168	0	61	162	30	355
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	4	1967	12	52	1503	23	168	0	61	162	30	355
PCE 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
MLF 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
FinalVolume:	4	1967	12	52	1503	23	168	0	61	162	30	355
Saturation Flow Module:												
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.98	0.02	1.00	2.95	0.05	1.00	0.00	1.00	1.00	0.08	0.92
Final Sat.:	1700	5069	31	1700	5023	77	1700	0	1700	1700	132	1568
Capacity Analysis Module:												
Vol/Sat:	0.00	0.39	0.39	0.03	0.30	0.30	0.10	0.00	0.04	0.10	0.23	0.23
Crit Moves:		****			****			****			****	

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APPENDIX 3.3: EXISTING (2023) CONDITIONS TRAFFIC SIGNAL WARRANT ANALYSIS WORKSHEETS

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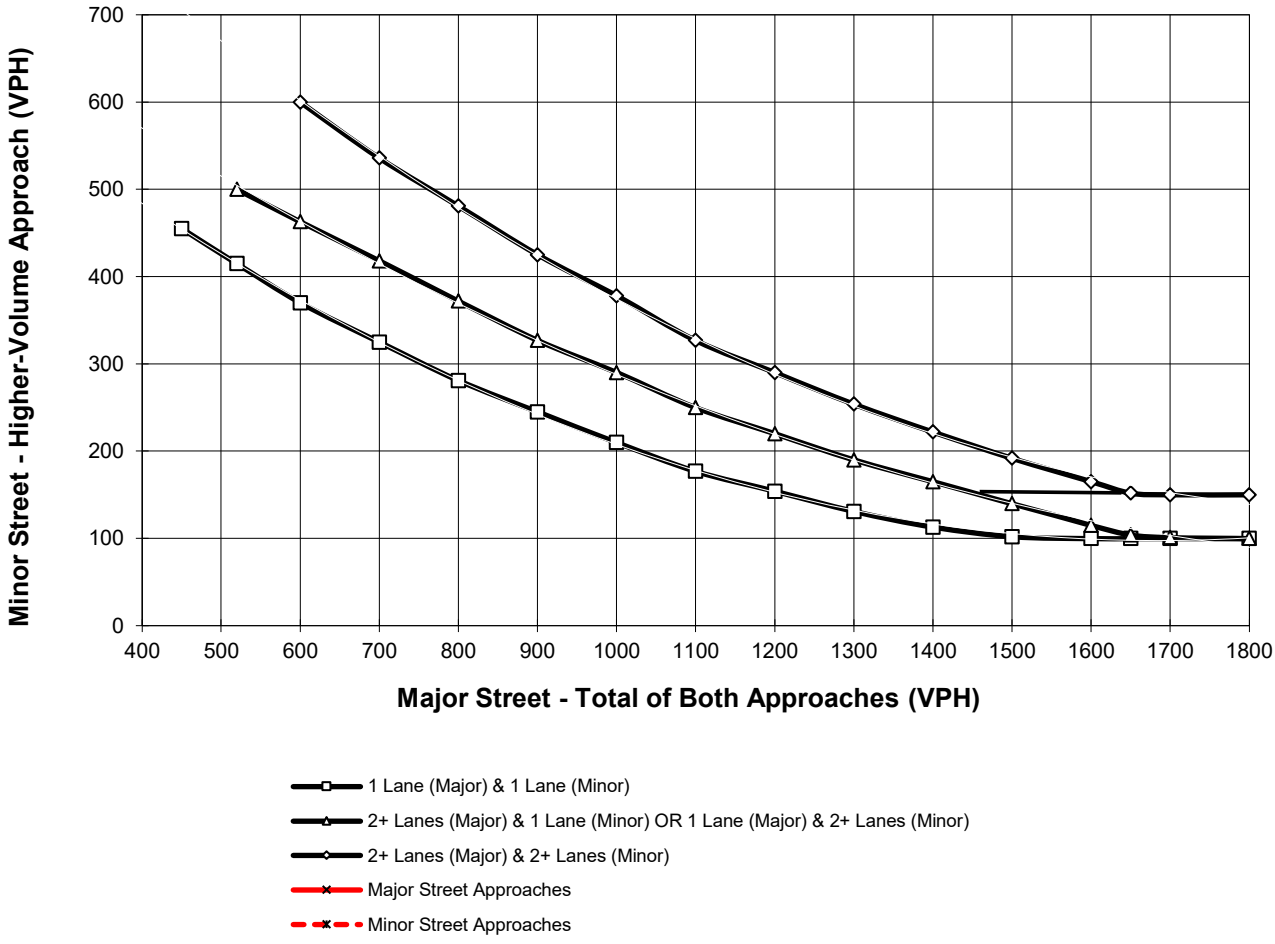
Figure 4C-3. Warrant 3, Peak Hour

Traffic Conditions = **Existing (2023) Conditions - Weekday AM Peak Hour**

Major Street Name = **Plaza Dr.**
Total of Both Approaches (VPH) = **53**
Number of Approach Lanes on Major Street = **1**

Minor Street Name = **Douglas Dr.**
High Volume Approach (VPH) = **21**
Number of Approach Lanes On Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 150 vph applies as the lower threshold for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold for a minor-street approach with one lane

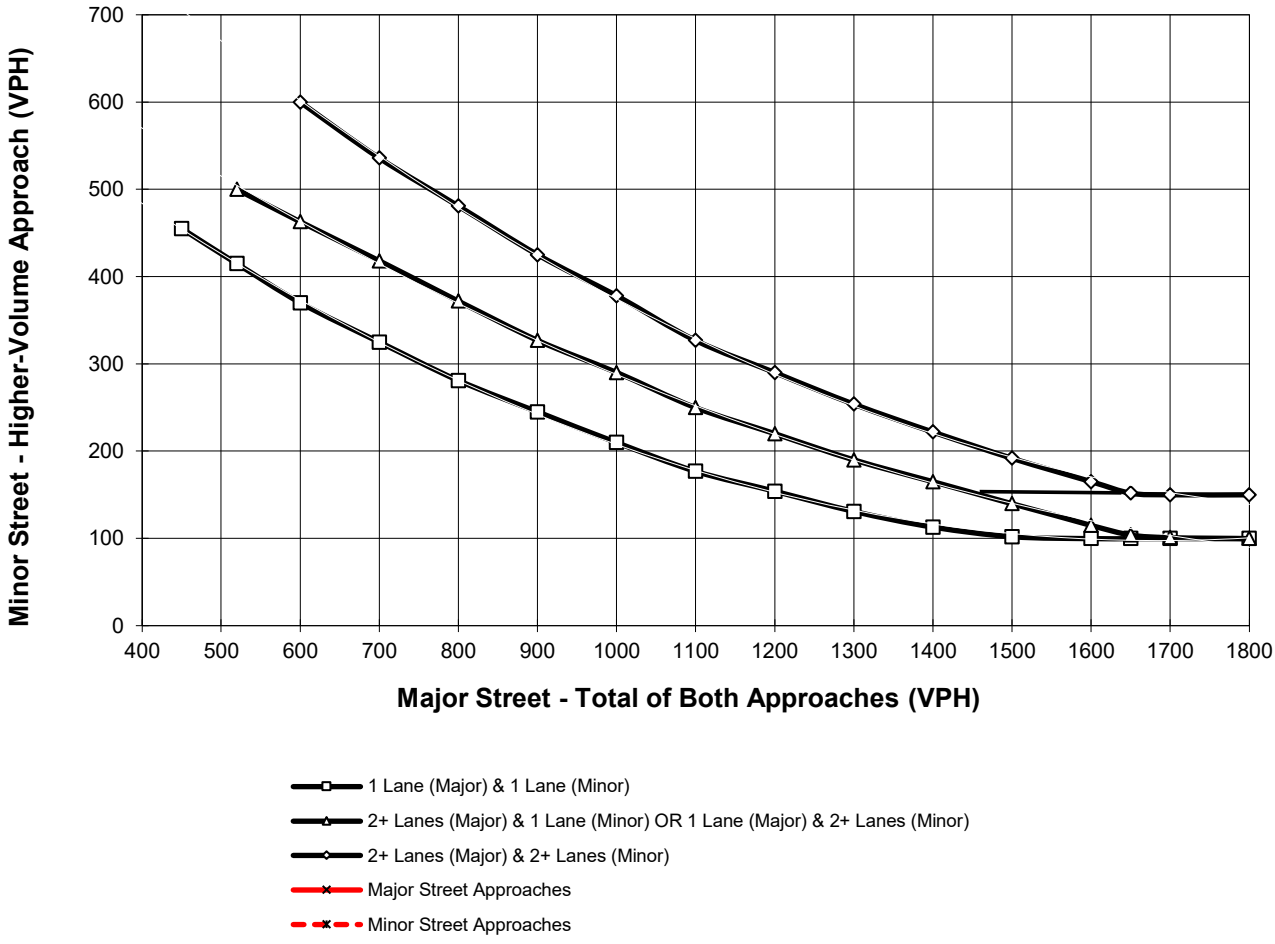
Figure 4C-3. Warrant 3, Peak Hour

Traffic Conditions = **Existing (2023) Conditions - Weekday PM Peak Hour**

Major Street Name = **Plaza Dr.**
Total of Both Approaches (VPH) = **179**
Number of Approach Lanes on Major Street = **1**

Minor Street Name = **McDonnell Dr.**
High Volume Approach (VPH) = **14**
Number of Approach Lanes On Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 150 vph applies as the lower threshold for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold for a minor-street approach with one lane

APPENDIX 5.1: EXISING PLUS PROJECT CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS

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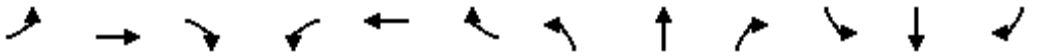
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	37	1702	72	12	1782	37	26	2	5	1	20
Future Volume (vph)	37	1702	72	12	1782	37	26	2	5	1	20
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Perm	NA	Perm	NA	Perm
Protected Phases	5	2		1	6			8		4	
Permitted Phases			2			6	8		4		4
Detector Phase	5	2	2	1	6	6	8	8	4	4	4
Switch Phase											
Minimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Minimum Split (s)	9.6	22.8	22.8	9.6	22.8	22.8	40.6	40.6	40.6	40.6	40.6
Total Split (s)	10.0	78.0	78.0	10.0	78.0	78.0	42.0	42.0	42.0	42.0	42.0
Total Split (%)	7.7%	60.0%	60.0%	7.7%	60.0%	60.0%	32.3%	32.3%	32.3%	32.3%	32.3%
Yellow Time (s)	3.6	4.8	4.8	3.6	4.8	4.8	3.6	3.6	3.6	3.6	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	5.8	4.6	5.8	5.8	4.6	4.6	4.6	4.6	4.6
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag					
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes					
Recall Mode	None	C-Max	C-Max	None	C-Max	C-Max	None	None	None	None	None
Act Effct Green (s)	6.6	102.9	102.9	5.7	96.9	96.9	20.4	20.4	20.4	20.4	20.4
Actuated g/C Ratio	0.05	0.79	0.79	0.04	0.75	0.75	0.16	0.16	0.16	0.16	0.16
v/c Ratio	0.48	0.48	0.07	0.18	0.54	0.04	0.13	0.03	0.03	0.00	0.08
Control Delay	79.4	10.9	4.8	65.4	12.6	2.2	42.7	24.3	37.6	36.0	0.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	79.4	10.9	4.8	65.4	12.6	2.2	42.7	24.3	37.6	36.0	0.6
LOS	E	B	A	E	B	A	D	C	D	D	A
Approach Delay		12.0			12.7			38.9		8.7	
Approach LOS		B			B			D		A	

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 130	
Offset: 0 (0%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow	
Natural Cycle: 90	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.54	
Intersection Signal Delay: 12.6	Intersection LOS: B
Intersection Capacity Utilization 68.4%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 1: Douglas Dr. & Katella Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	37	1702	72	12	1782	37	26	2	5	5	1	20
Future Volume (veh/h)	37	1702	72	12	1782	37	26	2	5	5	1	20
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	0.99		0.98	1.00		0.98
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	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adj Flow Rate, veh/h	39	1773	67	12	1856	34	27	2	2	5	1	11
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	48	3802	1155	22	3727	1132	120	40	40	119	88	73
Arrive On Green	0.03	0.82	0.82	0.01	0.80	0.80	0.05	0.05	0.05	0.05	0.05	0.05
Sat Flow, veh/h	1619	4641	1410	1619	4641	1409	1267	771	771	1284	1700	1414
Grp Volume(v), veh/h	39	1773	67	12	1856	34	27	0	4	5	1	11
Grp Sat Flow(s),veh/h/ln	1619	1547	1410	1619	1547	1409	1267	0	1542	1284	1700	1414
Q Serve(g_s), s	3.1	14.5	1.2	1.0	17.1	0.6	2.7	0.0	0.3	0.5	0.1	1.0
Cycle Q Clear(g_c), s	3.1	14.5	1.2	1.0	17.1	0.6	2.8	0.0	0.3	0.8	0.1	1.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.50	1.00		1.00
Lane Grp Cap(c), veh/h	48	3802	1155	22	3727	1132	120	0	80	119	88	73
V/C Ratio(X)	0.81	0.47	0.06	0.55	0.50	0.03	0.22	0.00	0.05	0.04	0.01	0.15
Avail Cap(c_a), veh/h	67	3802	1155	67	3727	1132	419	0	444	422	489	407
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	1.00	1.00
Uniform Delay (d), s/veh	62.7	3.4	2.2	63.7	4.2	2.6	59.8	0.0	58.6	59.0	58.5	58.9
Incr Delay (d2), s/veh	27.5	0.4	0.1	7.7	0.5	0.0	0.9	0.0	0.3	0.1	0.1	0.9
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	1.6	3.0	0.2	0.4	3.8	0.1	0.9	0.0	0.1	0.2	0.0	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	90.2	3.8	2.3	71.4	4.7	2.6	60.7	0.0	58.8	59.1	58.5	59.8
LnGrp LOS	F	A	A	E	A	A	E	A	E	E	E	E
Approach Vol, veh/h		1879			1902			31			17	
Approach Delay, s/veh		5.6			5.1			60.5			59.5	
Approach LOS		A			A			E			E	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.4	112.3		11.3	8.5	110.2		11.3				
Change Period (Y+Rc), s	4.6	5.8		4.6	4.6	5.8		4.6				
Max Green Setting (Gmax), s	5.4	72.2		37.4	5.4	72.2		37.4				
Max Q Clear Time (g_c+I1), s	3.0	16.5		3.0	5.1	19.1		4.8				
Green Ext Time (p_c), s	0.0	20.4		0.0	0.0	21.5		0.1				

Intersection Summary												
HCM 6th Ctrl Delay			6.0									
HCM 6th LOS			A									

Goodman Commerce Center (JN 15593)
E+P
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Douglas Dr. & Katella Av.

Cycle (sec):	100	Critical Vol./Cap.(X):	0.448
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	22	Level Of Service:	A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	1 0	0 1	0	1 0	1	0 1	1 0	3	0 1	1 0	3	0 1
Volume Module:												
Base Vol:	26	2	5	2	1	15	27	1702	72	12	1782	37
Growth 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
Initial Bse:	26	2	5	2	1	15	27	1702	72	12	1782	34
Added Vol:	0	0	0	3	0	5	10	0	0	0	0	3
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	26	2	5	5	1	20	37	1702	72	12	1782	37
User 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
PHF 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
PHF Volume:	26	2	5	5	1	20	37	1702	72	12	1782	37
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	26	2	5	5	1	20	37	1702	72	12	1782	37
PCE 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
MLF 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
FinalVolume:	26	2	5	5	1	20	37	1702	72	12	1782	37
Saturation Flow Module:												
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.29	0.71	1.00	1.00	1.00	1.00	3.00	1.00	1.00	3.00	1.00
Final Sat.:	1700	486	1214	1700	1700	1700	1700	5100	1700	1700	5100	1700
Capacity Analysis Module:												
Vol/Sat:	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.33	0.04	0.01	0.35	0.02
Crit Moves:	****					****	****				****	

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Intersection	
Intersection Delay, s/veh	7.2
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	2	7	53	4	2	6	7	21	0	0	0
Future Vol, veh/h	0	2	7	53	4	2	6	7	21	0	0	0
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	2	8	62	5	2	7	8	24	0	0	0
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	6.6	7.5	6.9	0
HCM LOS	A	A	A	-

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	18%	0%	90%	0%
Vol Thru, %	21%	22%	7%	100%
Vol Right, %	62%	78%	3%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	34	9	59	0
LT Vol	6	0	53	0
Through Vol	7	2	4	0
RT Vol	21	7	2	0
Lane Flow Rate	40	10	69	0
Geometry Grp	1	1	1	1
Degree of Util (X)	0.041	0.01	0.079	0
Departure Headway (Hd)	3.701	3.553	4.136	4.067
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	964	1005	869	0
Service Time	1.738	1.581	2.149	2.11
HCM Lane V/C Ratio	0.041	0.01	0.079	0
HCM Control Delay	6.9	6.6	7.5	7.1
HCM Lane LOS	A	A	A	N
HCM 95th-tile Q	0.1	0	0.3	0

Intersection	
Int Delay, s/veh	4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	25	0	8	109	4	20	2	77	0	0	0
Future Vol, veh/h	0	25	0	8	109	4	20	2	77	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	100	-	-	100	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	1	-	-	1	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	85	85	85	85	85	85	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	29	0	9	128	5	24	2	91	0	0	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	133	0	0	29	0	0	178	180	29	225	178	131
Stage 1	-	-	-	-	-	-	29	29	-	149	149	-
Stage 2	-	-	-	-	-	-	149	151	-	76	29	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1464	-	-	1597	-	-	789	717	1052	735	719	924
Stage 1	-	-	-	-	-	-	993	875	-	858	778	-
Stage 2	-	-	-	-	-	-	858	776	-	938	875	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1464	-	-	1597	-	-	786	713	1052	667	715	924
Mov Cap-2 Maneuver	-	-	-	-	-	-	764	690	-	693	691	-
Stage 1	-	-	-	-	-	-	993	875	-	858	773	-
Stage 2	-	-	-	-	-	-	853	771	-	855	875	-

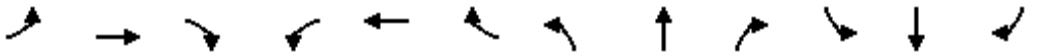
Approach	EB	WB	NB	SB
HCM Control Delay, s	0	0.5	9.2	0
HCM LOS			A	A

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	968	1464	-	-	1597	-	-	-
HCM Lane V/C Ratio	0.12	-	-	-	0.006	-	-	-
HCM Control Delay (s)	9.2	0	-	-	7.3	-	-	0
HCM Lane LOS	A	A	-	-	A	-	-	A
HCM 95th %tile Q(veh)	0.4	0	-	-	0	-	-	-

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	11	9	12	0	22	1516	254	1551
Future Volume (vph)	11	9	12	0	22	1516	254	1551
Turn Type	Perm	NA	Perm	NA	Prot	NA	Prot	NA
Protected Phases		4		8	5	2	1	6
Permitted Phases	4		8					
Detector Phase	4	4	8	8	5	2	1	6
Switch Phase								
Minimum Initial (s)	10.0	10.0	10.0	10.0	5.0	10.0	5.0	10.0
Minimum Split (s)	37.6	37.6	14.6	14.6	9.6	22.8	9.6	22.8
Total Split (s)	38.0	38.0	38.0	38.0	11.0	61.0	31.0	81.0
Total Split (%)	29.2%	29.2%	29.2%	29.2%	8.5%	46.9%	23.8%	62.3%
Yellow Time (s)	3.6	3.6	3.6	3.6	3.6	4.8	3.6	4.8
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	4.6	4.6	4.6	4.6	5.8	4.6	5.8
Lead/Lag					Lead	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	C-Max	None	C-Max
Act Effct Green (s)	19.2	19.2	19.2	19.2	6.0	75.0	23.7	97.8
Actuated g/C Ratio	0.15	0.15	0.15	0.15	0.05	0.58	0.18	0.75
v/c Ratio	0.06	0.10	0.06	0.08	0.30	0.65	0.87	0.50
Control Delay	41.4	23.4	41.4	0.3	70.0	23.8	79.8	10.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	41.4	23.4	41.4	0.3	70.0	23.8	79.8	10.9
LOS	D	C	D	A	E	C	E	B
Approach Delay		29.0		10.0		24.4		19.9
Approach LOS		C		A		C		B

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 130	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 100	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.87	
Intersection Signal Delay: 21.9	Intersection LOS: C
Intersection Capacity Utilization 75.7%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 4: Valley View St. & Plaza Dr./Chip Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	11	9	15	12	0	39	22	1516	181	254	1551	159
Future Volume (veh/h)	11	9	15	12	0	39	22	1516	181	254	1551	159
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	0.99		1.00	1.00		0.98	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	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adj Flow Rate, veh/h	11	9	10	12	0	33	22	1531	181	257	1567	158
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	105	45	50	118	0	89	34	2728	322	279	3435	346
Arrive On Green	0.06	0.06	0.06	0.06	0.00	0.06	0.02	0.65	0.65	0.17	0.80	0.80
Sat Flow, veh/h	1251	731	812	1250	0	1441	1619	4195	495	1619	4284	431
Grp Volume(v), veh/h	11	0	19	12	0	33	22	1129	583	257	1131	594
Grp Sat Flow(s),veh/h/ln	1251	0	1543	1250	0	1441	1619	1547	1597	1619	1547	1622
Q Serve(g_s), s	1.1	0.0	1.5	1.2	0.0	2.9	1.8	26.1	26.2	20.3	14.9	14.9
Cycle Q Clear(g_c), s	4.0	0.0	1.5	2.7	0.0	2.9	1.8	26.1	26.2	20.3	14.9	14.9
Prop In Lane	1.00		0.53	1.00		1.00	1.00		0.31	1.00		0.27
Lane Grp Cap(c), veh/h	105	0	95	118	0	89	34	2012	1038	279	2481	1300
V/C Ratio(X)	0.10	0.00	0.20	0.10	0.00	0.37	0.64	0.56	0.56	0.92	0.46	0.46
Avail Cap(c_a), veh/h	349	0	396	362	0	370	80	2012	1038	329	2481	1300
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	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	60.5	0.0	57.9	59.2	0.0	58.6	63.1	12.5	12.5	52.9	4.0	4.0
Incr Delay (d2), s/veh	0.4	0.0	1.0	0.4	0.0	2.5	7.3	1.1	2.2	25.8	0.6	1.2
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	0.4	0.0	0.6	0.4	0.0	1.1	0.8	8.4	9.0	10.0	3.4	3.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	60.9	0.0	58.9	59.6	0.0	61.1	70.5	13.7	14.7	78.7	4.6	5.2
LnGrp LOS	E	A	E	E	A	E	E	B	B	E	A	A
Approach Vol, veh/h		30			45			1734			1982	
Approach Delay, s/veh		59.7			60.7			14.7			14.4	
Approach LOS		E			E			B			B	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	27.0	90.3		12.6	7.3	110.0		12.6				
Change Period (Y+Rc), s	4.6	5.8		4.6	4.6	5.8		4.6				
Max Green Setting (Gmax), s	26.4	55.2		33.4	6.4	75.2		33.4				
Max Q Clear Time (g_c+I1), s	22.3	28.2		6.0	3.8	16.9		4.9				
Green Ext Time (p_c), s	0.1	13.4		0.1	0.0	17.7		0.2				

Intersection Summary			
HCM 6th Ctrl Delay		15.5	
HCM 6th LOS		B	

Goodman Commerce Center (JN 15593)
E+P
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Valley View St. & Plaza Dr.

Cycle (sec):	100	Critical Vol./Cap.(X):	0.562
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	27	Level Of Service:	A

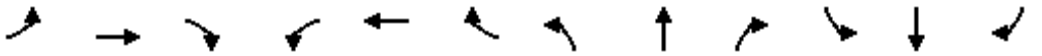
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	1 0	2 1	0	1 0	2 1	0	1 0	0 1	0	1 0	0 1	0
Volume Module:												
Base Vol:	22	1516	181	254	1551	154	9	9	15	12	0	39
Growth 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
Initial Bse:	22	1516	181	254	1551	154	9	9	15	12	0	39
Added Vol:	0	0	0	0	0	5	2	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	22	1516	181	254	1551	159	11	9	15	12	0	39
User 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
PHF 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
PHF Volume:	22	1516	181	254	1551	159	11	9	15	12	0	39
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	22	1516	181	254	1551	159	11	9	15	12	0	39
PCE 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
MLF 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
FinalVolume:	22	1516	181	254	1551	159	11	9	15	12	0	39
Saturation Flow Module:												
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.68	0.32	1.00	2.72	0.28	1.00	0.38	0.62	1.00	0.00	1.00
Final Sat.:	1700	4556	544	1700	4626	474	1700	638	1063	1700	0	1700
Capacity Analysis Module:												
Vol/Sat:	0.01	0.33	0.33	0.15	0.34	0.34	0.01	0.01	0.01	0.01	0.00	0.02
Crit Moves:		****			****			****				****

Traffix 8.0.0715 (c) 2008 Dowling Assoc. Licensed to URBAN CROSSROADS, IRVINE

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	17	1963	32	9	1608	9	83	1	30	2	58
Future Volume (vph)	17	1963	32	9	1608	9	83	1	30	2	58
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Perm	NA	Perm	NA	Perm
Protected Phases	5	2		1	6			8		4	
Permitted Phases			2			6	8		4		4
Detector Phase	5	2	2	1	6	6	8	8	4	4	4
Switch Phase											
Minimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Minimum Split (s)	9.6	22.8	22.8	9.6	22.8	22.8	40.6	40.6	40.6	40.6	40.6
Total Split (s)	10.0	78.0	78.0	10.0	78.0	78.0	42.0	42.0	42.0	42.0	42.0
Total Split (%)	7.7%	60.0%	60.0%	7.7%	60.0%	60.0%	32.3%	32.3%	32.3%	32.3%	32.3%
Yellow Time (s)	3.6	4.8	4.8	3.6	4.8	4.8	3.6	3.6	3.6	3.6	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	5.8	4.6	5.8	5.8	4.6	4.6	4.6	4.6	4.6
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag					
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes					
Recall Mode	None	C-Max	C-Max	None	C-Max	C-Max	None	None	None	None	None
Act Effct Green (s)	5.9	95.6	95.6	5.6	93.3	93.3	21.8	21.8	21.8	21.8	21.8
Actuated g/C Ratio	0.05	0.74	0.74	0.04	0.72	0.72	0.17	0.17	0.17	0.17	0.17
v/c Ratio	0.26	0.65	0.03	0.14	0.54	0.01	0.43	0.04	0.16	0.01	0.22
Control Delay	68.3	13.0	1.8	64.1	12.5	0.0	51.5	19.6	42.5	36.0	10.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	68.3	13.0	1.8	64.1	12.5	0.0	51.5	19.6	42.5	36.0	10.0
LOS	E	B	A	E	B	A	D	B	D	D	A
Approach Delay		13.3			12.7			48.7		21.4	
Approach LOS		B			B			D		C	

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 130	
Offset: 0 (0%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow	
Natural Cycle: 100	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.65	
Intersection Signal Delay: 14.1	Intersection LOS: B
Intersection Capacity Utilization 63.9%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 1: Douglas Dr. & Katella Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	17	1963	32	9	1608	9	83	1	7	30	2	58
Future Volume (veh/h)	17	1963	32	9	1608	9	83	1	7	30	2	58
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		1.00	1.00		0.99
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	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adj Flow Rate, veh/h	19	2206	30	10	1807	10	93	1	4	34	2	31
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	31	3637	1104	19	3602	1095	166	27	106	166	152	127
Arrive On Green	0.02	0.78	0.78	0.01	0.78	0.78	0.09	0.09	0.09	0.09	0.09	0.09
Sat Flow, veh/h	1619	4641	1409	1619	4641	1410	1251	297	1189	1283	1700	1420
Grp Volume(v), veh/h	19	2206	30	10	1807	10	93	0	5	34	2	31
Grp Sat Flow(s),veh/h/ln	1619	1547	1409	1619	1547	1410	1251	0	1486	1283	1700	1420
Q Serve(g_s), s	1.5	25.5	0.6	0.8	18.5	0.2	9.5	0.0	0.4	3.2	0.1	2.6
Cycle Q Clear(g_c), s	1.5	25.5	0.6	0.8	18.5	0.2	9.7	0.0	0.4	3.6	0.1	2.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.80	1.00		1.00
Lane Grp Cap(c), veh/h	31	3637	1104	19	3602	1095	166	0	133	166	152	127
V/C Ratio(X)	0.61	0.61	0.03	0.53	0.50	0.01	0.56	0.00	0.04	0.20	0.01	0.24
Avail Cap(c_a), veh/h	67	3637	1104	67	3602	1095	414	0	428	420	489	408
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	1.00	1.00
Uniform Delay (d), s/veh	63.3	5.8	3.1	63.9	5.3	3.3	58.4	0.0	54.1	55.8	54.0	55.1
Incr Delay (d2), s/veh	7.2	0.8	0.0	8.3	0.5	0.0	3.0	0.0	0.1	0.6	0.0	1.0
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	0.7	6.2	0.1	0.4	4.6	0.1	3.2	0.0	0.2	1.1	0.1	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	70.4	6.6	3.2	72.2	5.8	3.3	61.3	0.0	54.2	56.4	54.0	56.1
LnGrp LOS	E	A	A	E	A	A	E	A	D	E	D	E
Approach Vol, veh/h		2255			1827			98			67	
Approach Delay, s/veh		7.1			6.2			61.0			56.2	
Approach LOS		A			A			E			E	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.1	107.7		16.2	7.1	106.7		16.2				
Change Period (Y+Rc), s	4.6	5.8		4.6	4.6	5.8		4.6				
Max Green Setting (Gmax), s	5.4	72.2		37.4	5.4	72.2		37.4				
Max Q Clear Time (g_c+I1), s	2.8	27.5		5.6	3.5	20.5		11.7				
Green Ext Time (p_c), s	0.0	26.4		0.2	0.0	20.1		0.3				

Intersection Summary		
HCM 6th Ctrl Delay		8.7
HCM 6th LOS		A

Goodman Commerce Center (JN 15593)
E+P
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Douglas Dr. & Katella Av.

Cycle (sec):	100	Critical Vol./Cap.(X):	0.523
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	25	Level Of Service:	A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	1 0	0 1	0	1 0	1 0	1	1 0	3 0	1	1 0	3 0	1
Volume Module:												
Base Vol:	83	1	7	26	2	47	11	1963	32	9	1608	6
Growth 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
Initial Bse:	83	1	7	26	2	47	11	1963	32	9	1608	6
Added Vol:	0	0	0	4	0	11	6	0	0	0	0	3
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	83	1	7	30	2	58	17	1963	32	9	1608	9
User 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
PHF 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
PHF Volume:	83	1	7	30	2	58	17	1963	32	9	1608	9
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	83	1	7	30	2	58	17	1963	32	9	1608	9
PCE 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
MLF 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
FinalVolume:	83	1	7	30	2	58	17	1963	32	9	1608	9
Saturation Flow Module:												
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.12	0.88	1.00	1.00	1.00	1.00	3.00	1.00	1.00	3.00	1.00
Final Sat.:	1700	213	1488	1700	1700	1700	1700	5100	1700	1700	5100	1700
Capacity Analysis Module:												
Vol/Sat:	0.05	0.00	0.00	0.02	0.00	0.03	0.01	0.38	0.02	0.01	0.32	0.01
Crit Moves:	****					****		****		****		

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Intersection	
Intersection Delay, s/veh	7.7
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	4	8	100	2	1	6	2	24	2	6	0
Future Vol, veh/h	0	4	8	100	2	1	6	2	24	2	6	0
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	5	11	133	3	1	8	3	32	3	8	0
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	6.8	8	7	7.4
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	19%	0%	97%	25%
Vol Thru, %	6%	33%	2%	75%
Vol Right, %	75%	67%	1%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	32	12	103	8
LT Vol	6	0	100	2
Through Vol	2	4	2	6
RT Vol	24	8	1	0
Lane Flow Rate	43	16	137	11
Geometry Grp	1	1	1	1
Degree of Util (X)	0.045	0.016	0.16	0.013
Departure Headway (Hd)	3.76	3.695	4.192	4.249
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	938	960	856	831
Service Time	1.841	1.75	2.216	2.334
HCM Lane V/C Ratio	0.046	0.017	0.16	0.013
HCM Control Delay	7	6.8	8	7.4
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.1	0	0.6	0

Intersection	
Int Delay, s/veh	1.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	92	3	11	83	0	5	0	9	0	3	0
Future Vol, veh/h	0	92	3	11	83	0	5	0	9	0	3	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	100	-	-	100	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	1	-	-	1	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	63	63	63	63	63	63	63	63	63	63	63	63
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	146	5	17	132	0	8	0	14	0	5	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	132	0	0	151	0	0	318	315	149	322	317	132
Stage 1	-	-	-	-	-	-	149	149	-	166	166	-
Stage 2	-	-	-	-	-	-	169	166	-	156	151	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1466	-	-	1442	-	-	639	604	903	635	602	923
Stage 1	-	-	-	-	-	-	858	778	-	841	765	-
Stage 2	-	-	-	-	-	-	838	765	-	851	776	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1466	-	-	1442	-	-	629	597	903	619	595	923
Mov Cap-2 Maneuver	-	-	-	-	-	-	670	622	-	662	617	-
Stage 1	-	-	-	-	-	-	858	778	-	841	756	-
Stage 2	-	-	-	-	-	-	823	756	-	838	776	-

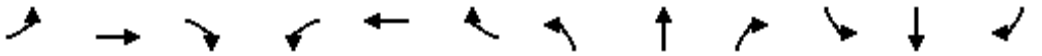
Approach	EB	WB	NB	SB
HCM Control Delay, s	0	0.9	9.6	10.9
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	803	1466	-	-	1442	-	-	617
HCM Lane V/C Ratio	0.028	-	-	-	0.012	-	-	0.008
HCM Control Delay (s)	9.6	0	-	-	7.5	-	-	10.9
HCM Lane LOS	A	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	0.1	0	-	-	0	-	-	0

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	174	0	162	30	4	1967	52	1503
Future Volume (vph)	174	0	162	30	4	1967	52	1503
Turn Type	Perm	NA	Perm	NA	Prot	NA	Prot	NA
Protected Phases		4		8	5	2	1	6
Permitted Phases	4		8					
Detector Phase	4	4	8	8	5	2	1	6
Switch Phase								
Minimum Initial (s)	10.0	10.0	10.0	10.0	5.0	10.0	5.0	10.0
Minimum Split (s)	37.6	37.6	14.6	14.6	9.6	22.8	9.6	22.8
Total Split (s)	50.0	50.0	50.0	50.0	11.0	69.0	11.0	69.0
Total Split (%)	38.5%	38.5%	38.5%	38.5%	8.5%	53.1%	8.5%	53.1%
Yellow Time (s)	3.6	3.6	3.6	3.6	3.6	4.8	3.6	4.8
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	4.6	4.6	4.6	4.6	5.8	4.6	5.8
Lead/Lag					Lead	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	C-Max	None	C-Max
Act Effct Green (s)	45.4	45.4	45.4	45.4	5.2	65.4	6.2	72.1
Actuated g/C Ratio	0.35	0.35	0.35	0.35	0.04	0.50	0.05	0.55
v/c Ratio	1.02	0.11	0.40	0.69	0.06	0.88	0.71	0.62
Control Delay	116.2	0.9	35.5	33.8	62.0	35.2	104.3	21.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	116.2	0.9	35.5	33.8	62.0	35.2	104.3	21.5
LOS	F	A	D	C	E	D	F	C
Approach Delay		86.1		34.3		35.2		24.2
Approach LOS		F		C		D		C

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 130	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 100	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 1.02	
Intersection Signal Delay: 33.8	Intersection LOS: C
Intersection Capacity Utilization 97.9%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 4: Valley View St. & Plaza Dr./Chip Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	174	0	61	162	30	355	4	1967	12	52	1503	26
Future Volume (veh/h)	174	0	61	162	30	355	4	1967	12	52	1503	26
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.98	1.00		0.97
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	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adj Flow Rate, veh/h	181	0	44	169	31	311	4	2049	12	54	1566	24
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	197	0	503	462	46	464	8	2351	14	67	2495	38
Arrive On Green	0.35	0.00	0.35	0.35	0.35	0.35	0.01	0.49	0.49	0.04	0.53	0.53
Sat Flow, veh/h	944	0	1439	1237	132	1328	1619	4760	28	1619	4707	72
Grp Volume(v), veh/h	181	0	44	169	0	342	4	1331	730	54	1029	561
Grp Sat Flow(s),veh/h/ln	944	0	1439	1237	0	1461	1619	1547	1694	1619	1547	1685
Q Serve(g_s), s	19.5	0.0	2.7	13.8	0.0	25.9	0.3	49.7	49.8	4.3	30.5	30.5
Cycle Q Clear(g_c), s	45.4	0.0	2.7	16.5	0.0	25.9	0.3	49.7	49.8	4.3	30.5	30.5
Prop In Lane	1.00		1.00	1.00		0.91	1.00		0.02	1.00		0.04
Lane Grp Cap(c), veh/h	197	0	503	462	0	510	8	1528	837	67	1640	893
V/C Ratio(X)	0.92	0.00	0.09	0.37	0.00	0.67	0.48	0.87	0.87	0.80	0.63	0.63
Avail Cap(c_a), veh/h	197	0	503	462	0	510	80	1528	837	80	1640	893
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	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.3	0.0	28.4	33.9	0.0	35.9	64.5	29.2	29.2	61.8	21.5	21.5
Incr Delay (d2), s/veh	41.6	0.0	0.1	0.5	0.0	3.4	14.8	7.1	12.1	32.4	1.8	3.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.3	0.0	1.0	4.3	0.0	9.8	0.2	18.7	21.7	2.3	10.7	12.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	99.0	0.0	28.5	34.4	0.0	39.3	79.3	36.3	41.4	94.2	23.3	24.8
LnGrp LOS	F	A	C	C	A	D	E	D	D	F	C	C
Approach Vol, veh/h		225			511			2065			1644	
Approach Delay, s/veh		85.2			37.7			38.2			26.2	
Approach LOS		F			D			D			C	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	10.0	70.0		50.0	5.3	74.7		50.0				
Change Period (Y+Rc), s	4.6	5.8		4.6	4.6	5.8		4.6				
Max Green Setting (Gmax), s	6.4	63.2		45.4	6.4	63.2		45.4				
Max Q Clear Time (g_c+I1), s	6.3	51.8		47.4	2.3	32.5		27.9				
Green Ext Time (p_c), s	0.0	8.8		0.0	0.0	12.7		2.8				

Intersection Summary												
HCM 6th Ctrl Delay			36.1									
HCM 6th LOS			D									

Goodman Commerce Center (JN 15593)
E+P
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Valley View St. & Plaza Dr.

Cycle (sec):	100	Critical Vol./Cap.(X):	0.797
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	51	Level Of Service:	C

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	1 0	2 1	0	1 0	2 1	0	1 0	0 1	0	1 0	0 1	0
Volume Module:												
Base Vol:	4	1967	12	52	1503	23	168	0	61	162	30	355
Growth 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
Initial Bse:	4	1967	12	52	1503	23	168	0	61	162	30	355
Added Vol:	0	0	0	0	0	3	6	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	4	1967	12	52	1503	26	174	0	61	162	30	355
User 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
PHF 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
PHF Volume:	4	1967	12	52	1503	26	174	0	61	162	30	355
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	4	1967	12	52	1503	26	174	0	61	162	30	355
PCE 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
MLF 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
FinalVolume:	4	1967	12	52	1503	26	174	0	61	162	30	355
Saturation Flow Module:												
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.98	0.02	1.00	2.95	0.05	1.00	0.00	1.00	1.00	0.08	0.92
Final Sat.:	1700	5069	31	1700	5013	87	1700	0	1700	1700	132	1568
Capacity Analysis Module:												
Vol/Sat:	0.00	0.39	0.39	0.03	0.30	0.30	0.10	0.00	0.04	0.10	0.23	0.23
Crit Moves:		****			****			****			****	

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APPENDIX 5.2: EXISTING PLUS PROJECT CONDITIONS TRAFFIC SIGNAL WARRANT ANALYSIS WORKSHEETS

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Figure 4C-3. Warrant 3, Peak Hour

Traffic Conditions = **E+P Conditions - Weekday AM Peak Hour**

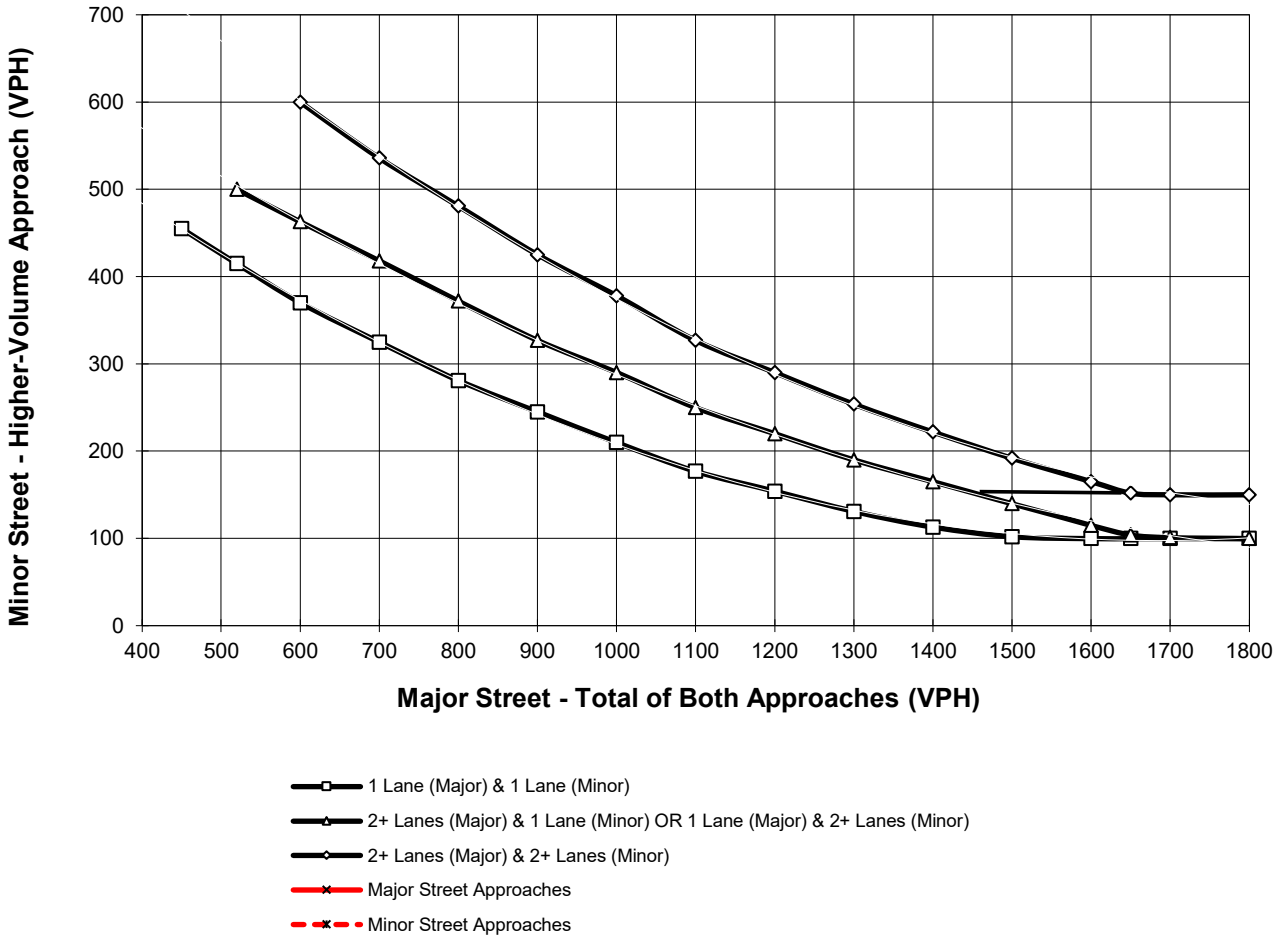
Major Street Name = **Plaza Dr.**

Total of Both Approaches (VPH) = **68**
Number of Approach Lanes on Major Street = **1**

Minor Street Name = **Douglas Dr.**

High Volume Approach (VPH) = **34**
Number of Approach Lanes On Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 150 vph applies as the lower threshold for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold for a minor-street approach with one lane

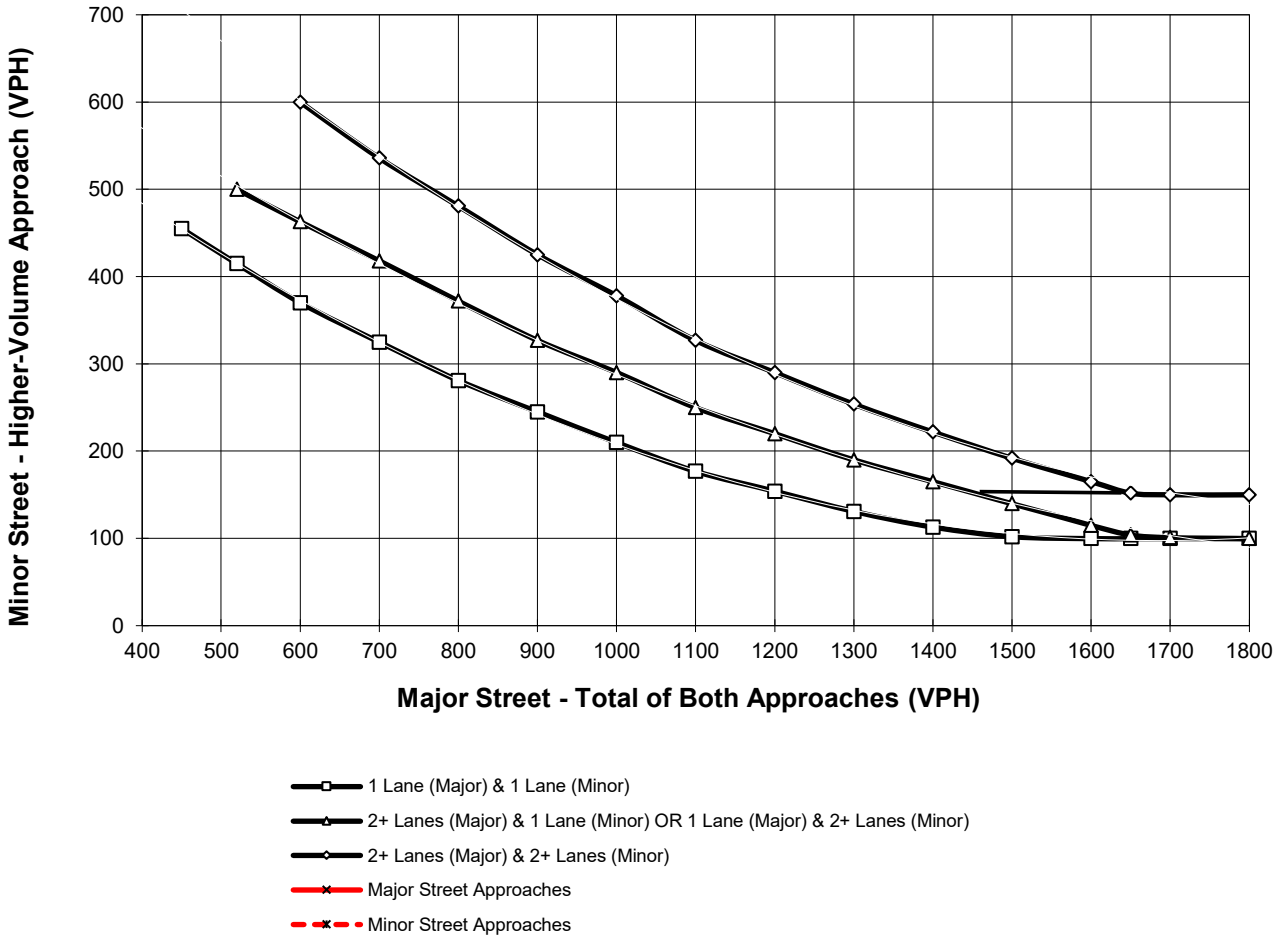
Figure 4C-3. Warrant 3, Peak Hour

Traffic Conditions = **E+P Conditions - Weekday PM Peak Hour**

Major Street Name = **Plaza Dr.**
Total of Both Approaches (VPH) = **189**
Number of Approach Lanes on Major Street = **1**

Minor Street Name = **McDonnell Dr.**
High Volume Approach (VPH) = **14**
Number of Approach Lanes On Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 150 vph applies as the lower threshold for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold for a minor-street approach with one lane

APPENDIX 6.1: FUTURE YEAR (2025) WITHOUT PROJECT CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS

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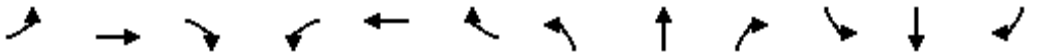
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	49	1828	74	12	1886	35	27	2	2	1	22
Future Volume (vph)	49	1828	74	12	1886	35	27	2	2	1	22
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Perm	NA	Perm	NA	Perm
Protected Phases	5	2		1	6			8		4	
Permitted Phases			2			6	8		4		4
Detector Phase	5	2	2	1	6	6	8	8	4	4	4
Switch Phase											
Minimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Minimum Split (s)	9.6	22.8	22.8	9.6	22.8	22.8	40.6	40.6	40.6	40.6	40.6
Total Split (s)	10.0	78.0	78.0	10.0	78.0	78.0	42.0	42.0	42.0	42.0	42.0
Total Split (%)	7.7%	60.0%	60.0%	7.7%	60.0%	60.0%	32.3%	32.3%	32.3%	32.3%	32.3%
Yellow Time (s)	3.6	4.8	4.8	3.6	4.8	4.8	3.6	3.6	3.6	3.6	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	5.8	4.6	5.8	5.8	4.6	4.6	4.6	4.6	4.6
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag					
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes					
Recall Mode	None	C-Max	C-Max	None	C-Max	C-Max	None	None	None	None	None
Act Effct Green (s)	7.3	102.9	102.9	5.7	96.3	96.3	20.4	20.4	20.4	20.4	20.4
Actuated g/C Ratio	0.06	0.79	0.79	0.04	0.74	0.74	0.16	0.16	0.16	0.16	0.16
v/c Ratio	0.56	0.52	0.07	0.18	0.57	0.03	0.14	0.03	0.01	0.00	0.08
Control Delay	82.9	11.5	4.9	65.4	13.4	1.8	42.7	24.3	36.5	36.0	0.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	82.9	11.5	4.9	65.4	13.4	1.8	42.7	24.3	36.5	36.0	0.6
LOS	F	B	A	E	B	A	D	C	D	D	A
Approach Delay		13.0			13.5			39.0		4.7	
Approach LOS		B			B			D		A	

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 130	
Offset: 0 (0%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow	
Natural Cycle: 90	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.57	
Intersection Signal Delay: 13.4	Intersection LOS: B
Intersection Capacity Utilization 70.6%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 1: Douglas Dr. & Katella Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	49	1828	74	12	1886	35	27	2	5	2	1	22
Future Volume (veh/h)	49	1828	74	12	1886	35	27	2	5	2	1	22
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	0.99		0.98	1.00		0.98
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	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adj Flow Rate, veh/h	51	1904	69	12	1965	31	28	2	2	2	1	13
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	64	3798	1154	22	3679	1117	121	41	41	120	90	75
Arrive On Green	0.04	0.82	0.82	0.01	0.79	0.79	0.05	0.05	0.05	0.05	0.05	0.05
Sat Flow, veh/h	1619	4641	1410	1619	4641	1409	1265	771	771	1284	1700	1414
Grp Volume(v), veh/h	51	1904	69	12	1965	31	28	0	4	2	1	13
Grp Sat Flow(s),veh/h/ln	1619	1547	1410	1619	1547	1409	1265	0	1542	1284	1700	1414
Q Serve(g_s), s	4.1	16.4	1.2	1.0	19.8	0.6	2.8	0.0	0.3	0.2	0.1	1.1
Cycle Q Clear(g_c), s	4.1	16.4	1.2	1.0	19.8	0.6	2.9	0.0	0.3	0.5	0.1	1.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.50	1.00		1.00
Lane Grp Cap(c), veh/h	64	3798	1154	22	3679	1117	121	0	81	120	90	75
V/C Ratio(X)	0.80	0.50	0.06	0.55	0.53	0.03	0.23	0.00	0.05	0.02	0.01	0.17
Avail Cap(c_a), veh/h	67	3798	1154	67	3679	1117	419	0	444	422	489	407
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	1.00	1.00
Uniform Delay (d), s/veh	62.0	3.6	2.3	63.7	4.8	2.9	59.7	0.0	58.5	58.7	58.4	58.9
Incr Delay (d2), s/veh	43.1	0.5	0.1	7.7	0.6	0.0	1.0	0.0	0.2	0.1	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	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	3.4	0.2	0.4	4.6	0.1	0.9	0.0	0.1	0.1	0.0	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	105.1	4.1	2.4	71.4	5.4	2.9	60.7	0.0	58.7	58.8	58.4	60.0
LnGrp LOS	F	A	A	E	A	A	E	A	E	E	E	E
Approach Vol, veh/h		2024			2008			32			16	
Approach Delay, s/veh		6.6			5.8			60.4			59.7	
Approach LOS		A			A			E			E	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.4	112.2		11.5	9.7	108.8		11.5				
Change Period (Y+Rc), s	4.6	5.8		4.6	4.6	5.8		4.6				
Max Green Setting (Gmax), s	5.4	72.2		37.4	5.4	72.2		37.4				
Max Q Clear Time (g_c+I1), s	3.0	18.4		3.1	6.1	21.8		4.9				
Green Ext Time (p_c), s	0.0	22.9		0.0	0.0	23.3		0.1				

Intersection Summary		
HCM 6th Ctrl Delay		6.8
HCM 6th LOS		A

Goodman Commerce Center (JN 15593)
Opening Year (2025) Without Project
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Douglas Dr. & Katella Av.

Cycle (sec):	100	Critical Vol./Cap.(X):	0.477
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	23	Level Of Service:	A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	1 0	0 1	0	1 0	1 0	1	1 0	3 0	1	1 0	3 0	1
Volume Module:												
Base Vol:	27	2	5	2	1	22	49	1828	74	12	1886	35
Growth 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
Initial Bse:	27	2	5	2	1	22	49	1828	74	12	1886	35
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	27	2	5	2	1	22	49	1828	74	12	1886	35
User 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
PHF 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
PHF Volume:	27	2	5	2	1	22	49	1828	74	12	1886	35
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	27	2	5	2	1	22	49	1828	74	12	1886	35
PCE 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
MLF 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
FinalVolume:	27	2	5	2	1	22	49	1828	74	12	1886	35
Saturation Flow Module:												
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.29	0.71	1.00	1.00	1.00	1.00	3.00	1.00	1.00	3.00	1.00
Final Sat.:	1700	486	1214	1700	1700	1700	1700	5100	1700	1700	5100	1700
Capacity Analysis Module:												
Vol/Sat:	0.02	0.00	0.00	0.00	0.00	0.01	0.03	0.36	0.04	0.01	0.37	0.02
Crit Moves:	****					****	****				****	

Traffix 8.0.0715 (c) 2008 Dowling Assoc. Licensed to URBAN CROSSROADS, IRVINE

Intersection	
Intersection Delay, s/veh	7.2
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	62	0	3	0	4	39	0	0	0
Future Vol, veh/h	0	0	0	62	0	3	0	4	39	0	0	0
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	72	0	3	0	5	45	0	0	0
Number of Lanes	0	0	0	1	0	0	0	0	1	0	0	0

Approach	WB	NB
Opposing Approach		
Opposing Lanes	0	0
Conflicting Approach Left	NB	
Conflicting Lanes Left	1	0
Conflicting Approach Right		WB
Conflicting Lanes Right	0	1
HCM Control Delay	7.6	6.7
HCM LOS	A	A

Lane	NBLn1	WBLn1
Vol Left, %	0%	95%
Vol Thru, %	9%	0%
Vol Right, %	91%	5%
Sign Control	Stop	Stop
Traffic Vol by Lane	43	65
LT Vol	0	62
Through Vol	4	0
RT Vol	39	3
Lane Flow Rate	50	76
Geometry Grp	1	1
Degree of Util (X)	0.048	0.087
Departure Headway (Hd)	3.487	4.15
Convergence, Y/N	Yes	Yes
Cap	1022	867
Service Time	1.526	2.158
HCM Lane V/C Ratio	0.049	0.088
HCM Control Delay	6.7	7.6
HCM Lane LOS	A	A
HCM 95th-tile Q	0.2	0.3

Intersection	
Int Delay, s/veh	4.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	46	0	14	122	10	20	3	115	1	0	0
Future Vol, veh/h	0	46	0	14	122	10	20	3	115	1	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	100	-	-	100	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	1	-	-	1	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	85	85	85	85	85	85	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	54	0	16	144	12	24	4	135	1	0	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	156	0	0	54	0	0	236	242	54	306	236	150
Stage 1	-	-	-	-	-	-	54	54	-	182	182	-
Stage 2	-	-	-	-	-	-	182	188	-	124	54	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1436	-	-	1564	-	-	723	663	1019	650	668	902
Stage 1	-	-	-	-	-	-	963	854	-	824	753	-
Stage 2	-	-	-	-	-	-	824	748	-	885	854	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1436	-	-	1564	-	-	717	656	1019	557	661	902
Mov Cap-2 Maneuver	-	-	-	-	-	-	719	653	-	610	655	-
Stage 1	-	-	-	-	-	-	963	854	-	824	745	-
Stage 2	-	-	-	-	-	-	816	741	-	764	854	-

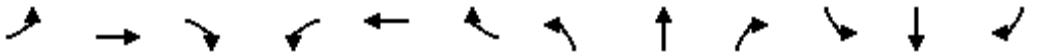
Approach	EB	WB	NB	SB
HCM Control Delay, s	0	0.7	9.6	10.9
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	950	1436	-	-	1564	-	-	610
HCM Lane V/C Ratio	0.171	-	-	-	0.011	-	-	0.002
HCM Control Delay (s)	9.6	0	-	-	7.3	-	-	10.9
HCM Lane LOS	A	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	0.6	0	-	-	0	-	-	0

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	21	9	12	0	62	1587	264	1620
Future Volume (vph)	21	9	12	0	62	1587	264	1620
Turn Type	Perm	NA	Perm	NA	Prot	NA	Prot	NA
Protected Phases		4		8	5	2	1	6
Permitted Phases	4		8					
Detector Phase	4	4	8	8	5	2	1	6
Switch Phase								
Minimum Initial (s)	10.0	10.0	10.0	10.0	5.0	10.0	5.0	10.0
Minimum Split (s)	37.6	37.6	14.6	14.6	9.6	22.8	9.6	22.8
Total Split (s)	38.0	38.0	38.0	38.0	11.0	61.0	31.0	81.0
Total Split (%)	29.2%	29.2%	29.2%	29.2%	8.5%	46.9%	23.8%	62.3%
Yellow Time (s)	3.6	3.6	3.6	3.6	3.6	4.8	3.6	4.8
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	4.6	4.6	4.6	4.6	5.8	4.6	5.8
Lead/Lag					Lead	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	C-Max	None	C-Max
Act Effct Green (s)	19.2	19.2	19.2	19.2	7.9	74.5	24.3	90.8
Actuated g/C Ratio	0.15	0.15	0.15	0.15	0.06	0.57	0.19	0.70
v/c Ratio	0.11	0.15	0.07	0.08	0.65	0.69	0.89	0.58
Control Delay	43.5	19.2	41.4	0.3	88.6	24.9	81.2	13.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	43.5	19.2	41.4	0.3	88.6	24.9	81.2	13.1
LOS	D	B	D	A	F	C	F	B
Approach Delay		28.1		9.8		27.0		21.7
Approach LOS		C		A		C		C

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 130	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 110	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.89	
Intersection Signal Delay: 24.1	Intersection LOS: C
Intersection Capacity Utilization 78.0%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 4: Valley View St. & Plaza Dr./Chip Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	9	27	12	0	40	62	1587	188	264	1620	214
Future Volume (veh/h)	21	9	27	12	0	40	62	1587	188	264	1620	214
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	0.99		1.00	1.00		0.98	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	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adj Flow Rate, veh/h	21	9	22	12	0	34	63	1603	188	267	1636	213
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	122	33	80	124	0	108	78	2649	310	289	3163	411
Arrive On Green	0.08	0.08	0.08	0.08	0.00	0.08	0.05	0.63	0.63	0.18	0.76	0.76
Sat Flow, veh/h	1249	434	1060	1240	0	1441	1619	4200	491	1619	4157	540
Grp Volume(v), veh/h	21	0	31	12	0	34	63	1180	611	267	1217	632
Grp Sat Flow(s),veh/h/ln	1249	0	1494	1240	0	1441	1619	1547	1598	1619	1547	1602
Q Serve(g_s), s	2.1	0.0	2.5	1.2	0.0	2.9	5.0	29.6	29.7	21.1	20.1	20.3
Cycle Q Clear(g_c), s	5.0	0.0	2.5	3.7	0.0	2.9	5.0	29.6	29.7	21.1	20.1	20.3
Prop In Lane	1.00		0.71	1.00		1.00	1.00		0.31	1.00		0.34
Lane Grp Cap(c), veh/h	122	0	113	124	0	108	78	1951	1008	289	2354	1219
V/C Ratio(X)	0.17	0.00	0.28	0.10	0.00	0.31	0.80	0.60	0.61	0.92	0.52	0.52
Avail Cap(c_a), veh/h	348	0	384	350	0	370	80	1951	1008	329	2354	1219
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	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	59.3	0.0	56.8	58.5	0.0	56.9	61.2	14.3	14.4	52.5	6.1	6.1
Incr Delay (d2), s/veh	0.7	0.0	1.3	0.3	0.0	1.6	40.0	1.4	2.7	27.4	0.8	1.6
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	0.7	0.0	1.0	0.4	0.0	1.1	2.9	9.7	10.4	10.5	5.3	5.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	60.0	0.0	58.1	58.9	0.0	58.6	101.2	15.7	17.1	79.9	6.9	7.7
LnGrp LOS	E	A	E	E	A	E	F	B	B	E	A	A
Approach Vol, veh/h		52			46			1854			2116	
Approach Delay, s/veh		58.8			58.6			19.1			16.4	
Approach LOS		E			E			B			B	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	27.8	87.8		14.4	10.9	104.7		14.4				
Change Period (Y+Rc), s	4.6	5.8		4.6	4.6	5.8		4.6				
Max Green Setting (Gmax), s	26.4	55.2		33.4	6.4	75.2		33.4				
Max Q Clear Time (g_c+I1), s	23.1	31.7		7.0	7.0	22.3		5.7				
Green Ext Time (p_c), s	0.1	13.1		0.2	0.0	19.7		0.2				

Intersection Summary			
HCM 6th Ctrl Delay		18.6	
HCM 6th LOS		B	

Goodman Commerce Center (JN 15593)
Opening Year (2025) Without Project
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Valley View St. & Plaza Dr.

Cycle (sec):	100	Critical Vol./Cap.(X):	0.582
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	28	Level Of Service:	A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	1 0	2	1 0	1 0	2	1 0	1 0	0	1 0	1 0	0	1 0
Volume Module:												
Base Vol:	62	1587	188	264	1620	214	21	9	27	12	0	40
Growth 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
Initial Bse:	62	1587	188	264	1620	214	21	9	27	12	0	40
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	62	1587	188	264	1620	214	21	9	27	12	0	40
User 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
PHF 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
PHF Volume:	62	1587	188	264	1620	214	21	9	27	12	0	40
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	62	1587	188	264	1620	214	21	9	27	12	0	40
PCE 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
MLF 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
FinalVolume:	62	1587	188	264	1620	214	21	9	27	12	0	40
Saturation Flow Module:												
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.68	0.32	1.00	2.65	0.35	1.00	0.25	0.75	1.00	0.00	1.00
Final Sat.:	1700	4560	540	1700	4505	595	1700	425	1275	1700	0	1700
Capacity Analysis Module:												
Vol/Sat:	0.04	0.35	0.35	0.16	0.36	0.36	0.01	0.02	0.02	0.01	0.00	0.02
Crit Moves:		****		****				****		****		

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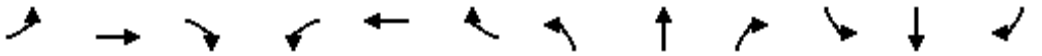
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	18	2104	33	9	1755	6	86	1	27	2	69
Future Volume (vph)	18	2104	33	9	1755	6	86	1	27	2	69
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Perm	NA	Perm	NA	Perm
Protected Phases	5	2		1	6			8		4	
Permitted Phases			2			6	8		4		4
Detector Phase	5	2	2	1	6	6	8	8	4	4	4
Switch Phase											
Minimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Minimum Split (s)	9.6	22.8	22.8	9.6	22.8	22.8	40.6	40.6	40.6	40.6	40.6
Total Split (s)	10.0	78.0	78.0	10.0	78.0	78.0	42.0	42.0	42.0	42.0	42.0
Total Split (%)	7.7%	60.0%	60.0%	7.7%	60.0%	60.0%	32.3%	32.3%	32.3%	32.3%	32.3%
Yellow Time (s)	3.6	4.8	4.8	3.6	4.8	4.8	3.6	3.6	3.6	3.6	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	5.8	4.6	5.8	5.8	4.6	4.6	4.6	4.6	4.6
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag					
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes					
Recall Mode	None	C-Max	C-Max	None	C-Max	C-Max	None	None	None	None	None
Act Effct Green (s)	5.9	95.4	95.4	5.6	91.0	91.0	21.9	21.9	21.9	21.9	21.9
Actuated g/C Ratio	0.05	0.73	0.73	0.04	0.70	0.70	0.17	0.17	0.17	0.17	0.17
v/c Ratio	0.27	0.69	0.04	0.14	0.61	0.01	0.45	0.04	0.14	0.01	0.26
Control Delay	68.9	14.1	1.9	64.1	14.4	0.0	52.0	19.6	41.8	36.0	9.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	68.9	14.1	1.9	64.1	14.4	0.0	52.0	19.6	41.8	36.0	9.6
LOS	E	B	A	E	B	A	D	B	D	D	A
Approach Delay		14.4			14.6			49.2		18.9	
Approach LOS		B			B			D		B	

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 130	
Offset: 0 (0%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow	
Natural Cycle: 110	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.69	
Intersection Signal Delay: 15.4	Intersection LOS: B
Intersection Capacity Utilization 67.1%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 1: Douglas Dr. & Katella Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	18	2104	33	9	1755	6	86	1	7	27	2	69
Future Volume (veh/h)	18	2104	33	9	1755	6	86	1	7	27	2	69
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		1.00	1.00		0.99
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	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adj Flow Rate, veh/h	20	2364	31	10	1972	7	97	1	4	30	2	44
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	32	3617	1098	19	3579	1087	170	28	111	172	159	133
Arrive On Green	0.02	0.78	0.78	0.01	0.77	0.77	0.09	0.09	0.09	0.09	0.09	0.09
Sat Flow, veh/h	1619	4641	1409	1619	4641	1410	1236	297	1189	1283	1700	1420
Grp Volume(v), veh/h	20	2364	31	10	1972	7	97	0	5	30	2	44
Grp Sat Flow(s),veh/h/ln	1619	1547	1409	1619	1547	1410	1236	0	1486	1283	1700	1420
Q Serve(g_s), s	1.6	29.8	0.6	0.8	22.0	0.1	10.0	0.0	0.4	2.8	0.1	3.8
Cycle Q Clear(g_c), s	1.6	29.8	0.6	0.8	22.0	0.1	10.2	0.0	0.4	3.2	0.1	3.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.80	1.00		1.00
Lane Grp Cap(c), veh/h	32	3617	1098	19	3579	1087	170	0	139	172	159	133
V/C Ratio(X)	0.62	0.65	0.03	0.53	0.55	0.01	0.57	0.00	0.04	0.17	0.01	0.33
Avail Cap(c_a), veh/h	67	3617	1098	67	3579	1087	410	0	428	420	489	409
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	1.00	1.00
Uniform Delay (d), s/veh	63.2	6.5	3.2	63.9	5.9	3.4	58.1	0.0	53.6	55.0	53.5	55.1
Incr Delay (d2), s/veh	7.2	0.9	0.0	8.3	0.6	0.0	3.0	0.0	0.1	0.5	0.0	1.4
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	0.7	7.4	0.2	0.4	5.6	0.0	3.3	0.0	0.2	1.0	0.1	1.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	70.4	7.4	3.3	72.2	6.5	3.4	61.1	0.0	53.7	55.5	53.5	56.5
LnGrp LOS	E	A	A	E	A	A	E	A	D	E	D	E
Approach Vol, veh/h		2415			1989			102			76	
Approach Delay, s/veh		7.9			6.9			60.7			56.1	
Approach LOS		A			A			E			E	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.1	107.1		16.8	7.2	106.0		16.8				
Change Period (Y+Rc), s	4.6	5.8		4.6	4.6	5.8		4.6				
Max Green Setting (Gmax), s	5.4	72.2		37.4	5.4	72.2		37.4				
Max Q Clear Time (g_c+I1), s	2.8	31.8		5.8	3.6	24.0		12.2				
Green Ext Time (p_c), s	0.0	27.3		0.2	0.0	22.8		0.3				

Intersection Summary			
HCM 6th Ctrl Delay		9.4	
HCM 6th LOS		A	

Goodman Commerce Center (JN 15593)
Opening Year (2025) Without Project
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Douglas Dr. & Katella Av.

Cycle (sec):	100	Critical Vol./Cap.(X):	0.559
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	26	Level Of Service:	A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	1 0	0 1	0	1 0	1 0	1	1 0	3 0	1	1 0	3 0	1
Volume Module:												
Base Vol:	86	1	7	27	2	69	18	2104	33	9	1755	6
Growth 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
Initial Bse:	86	1	7	27	2	69	18	2104	33	9	1755	6
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	86	1	7	27	2	69	18	2104	33	9	1755	6
User 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
PHF 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
PHF Volume:	86	1	7	27	2	69	18	2104	33	9	1755	6
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	86	1	7	27	2	69	18	2104	33	9	1755	6
PCE 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
MLF 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
FinalVolume:	86	1	7	27	2	69	18	2104	33	9	1755	6
Saturation Flow Module:												
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.12	0.88	1.00	1.00	1.00	1.00	3.00	1.00	1.00	3.00	1.00
Final Sat.:	1700	213	1488	1700	1700	1700	1700	5100	1700	1700	5100	1700
Capacity Analysis Module:												
Vol/Sat:	0.05	0.00	0.00	0.02	0.00	0.04	0.01	0.41	0.02	0.01	0.34	0.00
Crit Moves:	****					****		****		****		

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Intersection	
Intersection Delay, s/veh	7.8
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	121	0	1	0	1	29	3	4	0
Future Vol, veh/h	0	0	0	121	0	1	0	1	29	3	4	0
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	161	0	1	0	1	39	4	5	0
Number of Lanes	0	0	0	1	0	0	0	0	1	0	0	0

Approach	WB	NB
Opposing Approach		
Opposing Lanes	0	0
Conflicting Approach Left	NB	
Conflicting Lanes Left	1	0
Conflicting Approach Right		WB
Conflicting Lanes Right	0	1
HCM Control Delay	8.1	6.8
HCM LOS	A	A

Lane	NBLn1	WBLn1
Vol Left, %	0%	99%
Vol Thru, %	3%	0%
Vol Right, %	97%	1%
Sign Control	Stop	Stop
Traffic Vol by Lane	30	122
LT Vol	0	121
Through Vol	1	0
RT Vol	29	1
Lane Flow Rate	40	163
Geometry Grp	1	1
Degree of Util (X)	0.04	0.188
Departure Headway (Hd)	3.604	4.164
Convergence, Y/N	Yes	Yes
Cap	977	865
Service Time	1.688	2.172
HCM Lane V/C Ratio	0.041	0.188
HCM Control Delay	6.8	8.1
HCM Lane LOS	A	A
HCM 95th-tile Q	0.1	0.7

Intersection	
Int Delay, s/veh	2.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	103	2	43	102	2	5	0	16	7	4	0
Future Vol, veh/h	0	103	2	43	102	2	5	0	16	7	4	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	100	-	-	100	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	1	-	-	1	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	63	63	63	63	63	63	63	63	63	63	63	63
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	163	3	68	162	3	8	0	25	11	6	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	165	0	0	166	0	0	468	466	165	477	466	164
Stage 1	-	-	-	-	-	-	165	165	-	300	300	-
Stage 2	-	-	-	-	-	-	303	301	-	177	166	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1426	-	-	1424	-	-	509	497	885	502	497	886
Stage 1	-	-	-	-	-	-	842	766	-	713	669	-
Stage 2	-	-	-	-	-	-	711	669	-	829	765	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1426	-	-	1424	-	-	486	473	885	470	473	886
Mov Cap-2 Maneuver	-	-	-	-	-	-	554	528	-	545	518	-
Stage 1	-	-	-	-	-	-	842	766	-	713	637	-
Stage 2	-	-	-	-	-	-	670	637	-	805	765	-

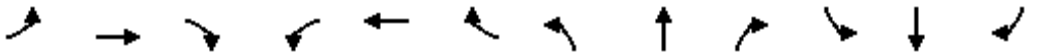
Approach	EB	WB	NB	SB
HCM Control Delay, s	0	2.2	9.9	12
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	775	1426	-	-	1424	-	-	535
HCM Lane V/C Ratio	0.043	-	-	-	0.048	-	-	0.033
HCM Control Delay (s)	9.9	0	-	-	7.7	-	-	12
HCM Lane LOS	A	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	0.1	0	-	-	0.2	-	-	0.1

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	226	0	169	31	16	2061	54	1582
Future Volume (vph)	226	0	169	31	16	2061	54	1582
Turn Type	Perm	NA	Perm	NA	Prot	NA	Prot	NA
Protected Phases		4		8	5	2	1	6
Permitted Phases	4		8					
Detector Phase	4	4	8	8	5	2	1	6
Switch Phase								
Minimum Initial (s)	10.0	10.0	10.0	10.0	5.0	10.0	5.0	10.0
Minimum Split (s)	37.6	37.6	14.6	14.6	9.6	22.8	9.6	22.8
Total Split (s)	50.0	50.0	50.0	50.0	11.0	69.0	11.0	69.0
Total Split (%)	38.5%	38.5%	38.5%	38.5%	8.5%	53.1%	8.5%	53.1%
Yellow Time (s)	3.6	3.6	3.6	3.6	3.6	4.8	3.6	4.8
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	4.6	4.6	4.6	4.6	5.8	4.6	5.8
Lead/Lag					Lead	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	C-Max	None	C-Max
Act Effct Green (s)	45.4	45.4	45.4	45.4	5.7	65.4	6.2	69.8
Actuated g/C Ratio	0.35	0.35	0.35	0.35	0.04	0.50	0.05	0.54
v/c Ratio	1.42	0.19	0.44	0.72	0.24	0.93	0.73	0.68
Control Delay	252.2	5.7	36.8	35.5	68.0	38.7	106.6	24.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	252.2	5.7	36.8	35.5	68.0	38.7	106.6	24.4
LOS	F	A	D	D	E	D	F	C
Approach Delay		175.5		35.9		39.0		27.1
Approach LOS		F		D		D		C

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 130	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 120	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 1.42	
Intersection Signal Delay: 43.9	Intersection LOS: D
Intersection Capacity Utilization 104.0%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 4: Valley View St. & Plaza Dr./Chip Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	226	0	102	169	31	369	16	2061	12	54	1582	37
Future Volume (veh/h)	226	0	102	169	31	369	16	2061	12	54	1582	37
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.98	1.00		0.97
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	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adj Flow Rate, veh/h	235	0	86	176	32	325	17	2147	12	56	1648	36
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	185	0	503	422	46	464	29	2344	13	70	2418	53
Arrive On Green	0.35	0.00	0.35	0.35	0.35	0.35	0.02	0.49	0.49	0.04	0.52	0.52
Sat Flow, veh/h	931	0	1439	1191	131	1330	1619	4762	27	1619	4670	102
Grp Volume(v), veh/h	235	0	86	176	0	357	17	1395	764	56	1092	592
Grp Sat Flow(s),veh/h/ln	931	0	1439	1191	0	1461	1619	1547	1695	1619	1547	1678
Q Serve(g_s), s	18.0	0.0	5.4	15.6	0.0	27.4	1.4	54.2	54.2	4.5	34.2	34.2
Cycle Q Clear(g_c), s	45.4	0.0	5.4	21.0	0.0	27.4	1.4	54.2	54.2	4.5	34.2	34.2
Prop In Lane	1.00		1.00	1.00		0.91	1.00		0.02	1.00		0.06
Lane Grp Cap(c), veh/h	185	0	503	422	0	510	29	1523	834	70	1602	869
V/C Ratio(X)	1.27	0.00	0.17	0.42	0.00	0.70	0.60	0.92	0.92	0.80	0.68	0.68
Avail Cap(c_a), veh/h	185	0	503	422	0	510	80	1523	834	80	1602	869
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	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	58.7	0.0	29.3	36.5	0.0	36.4	63.4	30.5	30.5	61.7	23.4	23.4
Incr Delay (d2), s/veh	158.3	0.0	0.2	0.7	0.0	4.2	7.1	10.1	16.4	34.3	2.4	4.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	14.3	0.0	1.9	4.7	0.0	10.4	0.6	20.9	24.4	2.5	12.2	13.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	217.0	0.0	29.4	37.2	0.0	40.7	70.5	40.6	47.0	95.9	25.7	27.7
LnGrp LOS	F	A	C	D	A	D	E	D	D	F	C	C
Approach Vol, veh/h		321			533			2176			1740	
Approach Delay, s/veh		166.8			39.5			43.1			28.6	
Approach LOS		F			D			D			C	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	10.2	69.8		50.0	6.9	73.1		50.0				
Change Period (Y+Rc), s	4.6	5.8		4.6	4.6	5.8		4.6				
Max Green Setting (Gmax), s	6.4	63.2		45.4	6.4	63.2		45.4				
Max Q Clear Time (g_c+I1), s	6.5	56.2		47.4	3.4	36.2		29.4				
Green Ext Time (p_c), s	0.0	5.9		0.0	0.0	12.9		2.9				

Intersection Summary			
HCM 6th Ctrl Delay		45.7	
HCM 6th LOS		D	

Goodman Commerce Center (JN 15593)
Opening Year (2025) Without Project
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Valley View St. & Plaza Dr.

Cycle (sec):	100	Critical Vol./Cap.(X):	0.856
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	67	Level Of Service:	D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	1 0	2	1 0	1 0	2	1 0	1 0	0	1 0	1 0	0	1 0
Volume Module:												
Base Vol:	16	2061	12	54	1582	37	226	0	102	169	31	369
Growth 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
Initial Bse:	16	2061	12	54	1582	37	226	0	102	169	31	369
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	16	2061	12	54	1582	37	226	0	102	169	31	369
User 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
PHF 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
PHF Volume:	16	2061	12	54	1582	37	226	0	102	169	31	369
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	16	2061	12	54	1582	37	226	0	102	169	31	369
PCE 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
MLF 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
FinalVolume:	16	2061	12	54	1582	37	226	0	102	169	31	369
Saturation Flow Module:												
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.98	0.02	1.00	2.93	0.07	1.00	0.00	1.00	1.00	0.08	0.92
Final Sat.:	1700	5070	30	1700	4983	117	1700	0	1700	1700	132	1568
Capacity Analysis Module:												
Vol/Sat:	0.01	0.41	0.41	0.03	0.32	0.32	0.13	0.00	0.06	0.10	0.24	0.24
Crit Moves:		****			****			****			****	

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APPENDIX 6.2: FUTURE YEAR (2025) WITH PROJECT CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS

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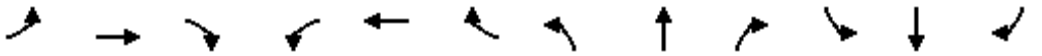
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	59	1828	74	12	1886	38	27	2	5	1	27
Future Volume (vph)	59	1828	74	12	1886	38	27	2	5	1	27
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Perm	NA	Perm	NA	Perm
Protected Phases	5	2		1	6			8		4	
Permitted Phases			2			6	8		4		4
Detector Phase	5	2	2	1	6	6	8	8	4	4	4
Switch Phase											
Minimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Minimum Split (s)	9.6	22.8	22.8	9.6	22.8	22.8	40.6	40.6	40.6	40.6	40.6
Total Split (s)	10.0	78.0	78.0	10.0	78.0	78.0	42.0	42.0	42.0	42.0	42.0
Total Split (%)	7.7%	60.0%	60.0%	7.7%	60.0%	60.0%	32.3%	32.3%	32.3%	32.3%	32.3%
Yellow Time (s)	3.6	4.8	4.8	3.6	4.8	4.8	3.6	3.6	3.6	3.6	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	5.8	4.6	5.8	5.8	4.6	4.6	4.6	4.6	4.6
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag					
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes					
Recall Mode	None	C-Max	C-Max	None	C-Max	C-Max	None	None	None	None	None
Act Effct Green (s)	8.4	102.9	102.9	5.7	92.1	92.1	20.4	20.4	20.4	20.4	20.4
Actuated g/C Ratio	0.06	0.79	0.79	0.04	0.71	0.71	0.16	0.16	0.16	0.16	0.16
v/c Ratio	0.59	0.52	0.07	0.18	0.60	0.04	0.14	0.03	0.03	0.00	0.10
Control Delay	82.2	11.5	4.9	65.4	14.1	2.4	42.7	24.3	37.6	36.0	1.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	82.2	11.5	4.9	65.4	14.1	2.4	42.7	24.3	37.6	36.0	1.2
LOS	F	B	A	E	B	A	D	C	D	D	A
Approach Delay		13.3			14.2			39.0		7.6	
Approach LOS		B			B			D		A	

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 130	
Offset: 0 (0%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow	
Natural Cycle: 90	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.60	
Intersection Signal Delay: 13.9	Intersection LOS: B
Intersection Capacity Utilization 70.6%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 1: Douglas Dr. & Katella Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	59	1828	74	12	1886	38	27	2	5	5	1	27
Future Volume (veh/h)	59	1828	74	12	1886	38	27	2	5	5	1	27
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	0.99		0.98	1.00		0.98
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	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adj Flow Rate, veh/h	61	1904	69	12	1965	35	28	2	2	5	1	18
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	67	3798	1154	22	3668	1114	121	41	41	120	90	75
Arrive On Green	0.04	0.82	0.82	0.01	0.79	0.79	0.05	0.05	0.05	0.05	0.05	0.05
Sat Flow, veh/h	1619	4641	1410	1619	4641	1409	1260	771	771	1284	1700	1414
Grp Volume(v), veh/h	61	1904	69	12	1965	35	28	0	4	5	1	18
Grp Sat Flow(s),veh/h/ln	1619	1547	1410	1619	1547	1409	1260	0	1542	1284	1700	1414
Q Serve(g_s), s	4.9	16.4	1.2	1.0	20.0	0.7	2.8	0.0	0.3	0.5	0.1	1.6
Cycle Q Clear(g_c), s	4.9	16.4	1.2	1.0	20.0	0.7	2.9	0.0	0.3	0.8	0.1	1.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.50	1.00		1.00
Lane Grp Cap(c), veh/h	67	3798	1154	22	3668	1114	121	0	81	120	90	75
V/C Ratio(X)	0.91	0.50	0.06	0.55	0.54	0.03	0.23	0.00	0.05	0.04	0.01	0.24
Avail Cap(c_a), veh/h	67	3798	1154	67	3668	1114	417	0	444	422	489	407
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	1.00	1.00
Uniform Delay (d), s/veh	62.0	3.6	2.3	63.7	5.0	2.9	59.7	0.0	58.5	58.9	58.4	59.1
Incr Delay (d2), s/veh	76.5	0.5	0.1	7.7	0.6	0.1	1.0	0.0	0.2	0.1	0.0	1.7
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	3.4	3.4	0.2	0.4	4.7	0.2	0.9	0.0	0.1	0.2	0.0	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	138.6	4.1	2.4	71.4	5.5	3.0	60.7	0.0	58.7	59.0	58.4	60.7
LnGrp LOS	F	A	A	E	A	A	E	A	E	E	E	E
Approach Vol, veh/h		2034			2012			32			24	
Approach Delay, s/veh		8.1			5.9			60.4			60.3	
Approach LOS		A			A			E			E	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.4	112.2		11.5	10.0	108.5		11.5				
Change Period (Y+Rc), s	4.6	5.8		4.6	4.6	5.8		4.6				
Max Green Setting (Gmax), s	5.4	72.2		37.4	5.4	72.2		37.4				
Max Q Clear Time (g_c+I1), s	3.0	18.4		3.6	6.9	22.0		4.9				
Green Ext Time (p_c), s	0.0	22.9		0.0	0.0	23.3		0.1				

Intersection Summary												
HCM 6th Ctrl Delay			7.7									
HCM 6th LOS			A									

Goodman Commerce Center (JN 15593)
Opening Year (2025) With Project
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Douglas Dr. & Katella Av.

Cycle (sec):	100	Critical Vol./Cap.(X):	0.486
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	23	Level Of Service:	A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	1 0	0 1	0	1 0	1 0	1	1 0	3 0	1	1 0	3 0	1
Volume Module:												
Base Vol:	27	2	5	2	1	22	49	1828	74	12	1886	35
Growth 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
Initial Bse:	27	2	5	2	1	22	49	1828	74	12	1886	35
Added Vol:	0	0	0	3	0	5	10	0	0	0	0	3
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	27	2	5	5	1	27	59	1828	74	12	1886	38
User 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
PHF 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
PHF Volume:	27	2	5	5	1	27	59	1828	74	12	1886	38
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	27	2	5	5	1	27	59	1828	74	12	1886	38
PCE 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
MLF 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
FinalVolume:	27	2	5	5	1	27	59	1828	74	12	1886	38
Saturation Flow Module:												
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.29	0.71	1.00	1.00	1.00	1.00	3.00	1.00	1.00	3.00	1.00
Final Sat.:	1700	486	1214	1700	1700	1700	1700	5100	1700	1700	5100	1700
Capacity Analysis Module:												
Vol/Sat:	0.02	0.00	0.00	0.00	0.00	0.02	0.03	0.36	0.04	0.01	0.37	0.02
Crit Moves:	****					****	****				****	

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Goodman Commerce Center (JN 15593)
Opening Year (2025) With Project WITH IMPROVEMENTS
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Douglas Dr. & Katella Av.

Cycle (sec):	100	Critical Vol./Cap.(X):	0.494
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	23	Level Of Service:	A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	1 0	0 1	0	1 0	1 0	1	1 0	3 0	1	1 0	2 1	0
Volume Module:												
Base Vol:	27	2	5	2	1	22	49	1828	74	12	1886	35
Growth 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
Initial Bse:	27	2	5	2	1	22	49	1828	74	12	1886	35
Added Vol:	0	0	0	3	0	5	10	0	0	0	0	3
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	27	2	5	5	1	27	59	1828	74	12	1886	38
User 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
PHF 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
PHF Volume:	27	2	5	5	1	27	59	1828	74	12	1886	38
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	27	2	5	5	1	27	59	1828	74	12	1886	38
PCE 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
MLF 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
FinalVolume:	27	2	5	5	1	27	59	1828	74	12	1886	38
Saturation Flow Module:												
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.29	0.71	1.00	1.00	1.00	1.00	3.00	1.00	1.00	2.94	0.06
Final Sat.:	1700	486	1214	1700	1700	1700	1700	5100	1700	1700	4999	101
Capacity Analysis Module:												
Vol/Sat:	0.02	0.00	0.00	0.00	0.00	0.02	0.03	0.36	0.04	0.01	0.38	0.38
Crit Moves:	****					****	****				****	

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Intersection	
Intersection Delay, s/veh	7.3
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	2	7	62	4	5	6	11	39	0	0	0
Future Vol, veh/h	0	2	7	62	4	5	6	11	39	0	0	0
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	2	8	72	5	6	7	13	45	0	0	0
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	6.7	7.6	7	0
HCM LOS	A	A	A	-

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	11%	0%	87%	0%
Vol Thru, %	20%	22%	6%	100%
Vol Right, %	70%	78%	7%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	56	9	71	0
LT Vol	6	0	62	0
Through Vol	11	2	4	0
RT Vol	39	7	5	0
Lane Flow Rate	65	10	83	0
Geometry Grp	1	1	1	1
Degree of Util (X)	0.066	0.01	0.095	0
Departure Headway (Hd)	3.663	3.609	4.155	4.111
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	972	988	864	0
Service Time	1.707	1.644	2.171	2.163
HCM Lane V/C Ratio	0.067	0.01	0.096	0
HCM Control Delay	7	6.7	7.6	7.2
HCM Lane LOS	A	A	A	N
HCM 95th-tile Q	0.2	0	0.3	0

Intersection	
Int Delay, s/veh	4.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	48	0	14	127	6	21	3	115	1	0	0
Future Vol, veh/h	0	48	0	14	127	6	21	3	115	1	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	100	-	-	100	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	1	-	-	1	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	85	85	85	85	85	85	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	56	0	16	149	7	25	4	135	1	0	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	156	0	0	56	0	0	241	244	56	311	241	153
Stage 1	-	-	-	-	-	-	56	56	-	185	185	-
Stage 2	-	-	-	-	-	-	185	188	-	126	56	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1436	-	-	1562	-	-	717	661	1016	645	664	898
Stage 1	-	-	-	-	-	-	961	852	-	821	751	-
Stage 2	-	-	-	-	-	-	821	748	-	883	852	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1436	-	-	1562	-	-	711	654	1016	553	657	898
Mov Cap-2 Maneuver	-	-	-	-	-	-	715	652	-	607	653	-
Stage 1	-	-	-	-	-	-	961	852	-	821	743	-
Stage 2	-	-	-	-	-	-	813	741	-	762	852	-

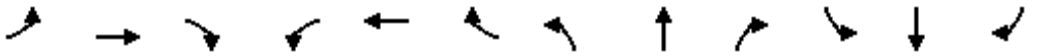
Approach	EB	WB	NB	SB
HCM Control Delay, s	0	0.7	9.6	10.9
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	945	1436	-	-	1562	-	-	607
HCM Lane V/C Ratio	0.173	-	-	-	0.011	-	-	0.002
HCM Control Delay (s)	9.6	0	-	-	7.3	-	-	10.9
HCM Lane LOS	A	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	0.6	0	-	-	0	-	-	0

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	23	9	12	0	62	1587	264	1620
Future Volume (vph)	23	9	12	0	62	1587	264	1620
Turn Type	Perm	NA	Perm	NA	Prot	NA	Prot	NA
Protected Phases		4		8	5	2	1	6
Permitted Phases	4		8					
Detector Phase	4	4	8	8	5	2	1	6
Switch Phase								
Minimum Initial (s)	10.0	10.0	10.0	10.0	5.0	10.0	5.0	10.0
Minimum Split (s)	37.6	37.6	14.6	14.6	9.6	22.8	9.6	22.8
Total Split (s)	38.0	38.0	38.0	38.0	11.0	61.0	31.0	81.0
Total Split (%)	29.2%	29.2%	29.2%	29.2%	8.5%	46.9%	23.8%	62.3%
Yellow Time (s)	3.6	3.6	3.6	3.6	3.6	4.8	3.6	4.8
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	4.6	4.6	4.6	4.6	5.8	4.6	5.8
Lead/Lag					Lead	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	C-Max	None	C-Max
Act Effct Green (s)	19.2	19.2	19.2	19.2	7.9	74.5	24.3	90.8
Actuated g/C Ratio	0.15	0.15	0.15	0.15	0.06	0.57	0.19	0.70
v/c Ratio	0.13	0.15	0.07	0.08	0.65	0.69	0.89	0.58
Control Delay	44.0	19.2	41.4	0.3	88.6	24.9	81.2	13.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	44.0	19.2	41.4	0.3	88.6	24.9	81.2	13.2
LOS	D	B	D	A	F	C	F	B
Approach Delay		28.8		9.8		27.0		21.7
Approach LOS		C		A		C		C

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 130	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 110	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.89	
Intersection Signal Delay: 24.1	Intersection LOS: C
Intersection Capacity Utilization 78.0%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 4: Valley View St. & Plaza Dr./Chip Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	23	9	27	12	0	40	62	1587	188	264	1620	219
Future Volume (veh/h)	23	9	27	12	0	40	62	1587	188	264	1620	219
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	0.99		1.00	1.00		0.98	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	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adj Flow Rate, veh/h	23	9	22	12	0	34	63	1603	188	267	1636	218
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	123	33	81	125	0	110	78	2646	310	289	3150	418
Arrive On Green	0.08	0.08	0.08	0.08	0.00	0.08	0.05	0.63	0.63	0.18	0.76	0.76
Sat Flow, veh/h	1249	434	1060	1240	0	1441	1619	4200	491	1619	4144	550
Grp Volume(v), veh/h	23	0	31	12	0	34	63	1180	611	267	1220	634
Grp Sat Flow(s),veh/h/ln	1249	0	1494	1240	0	1441	1619	1547	1598	1619	1547	1600
Q Serve(g_s), s	2.3	0.0	2.5	1.2	0.0	2.9	5.0	29.7	29.8	21.1	20.3	20.4
Cycle Q Clear(g_c), s	5.2	0.0	2.5	3.7	0.0	2.9	5.0	29.7	29.8	21.1	20.3	20.4
Prop In Lane	1.00		0.71	1.00		1.00	1.00		0.31	1.00		0.34
Lane Grp Cap(c), veh/h	123	0	114	125	0	110	78	1949	1006	289	2352	1216
V/C Ratio(X)	0.19	0.00	0.27	0.10	0.00	0.31	0.80	0.61	0.61	0.92	0.52	0.52
Avail Cap(c_a), veh/h	348	0	384	350	0	370	80	1949	1006	329	2352	1216
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	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	59.3	0.0	56.7	58.4	0.0	56.8	61.2	14.4	14.4	52.5	6.2	6.2
Incr Delay (d2), s/veh	0.7	0.0	1.3	0.3	0.0	1.6	40.0	1.4	2.7	27.4	0.8	1.6
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	0.8	0.0	1.0	0.4	0.0	1.1	2.9	9.8	10.5	10.5	5.4	5.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	60.0	0.0	57.9	58.8	0.0	58.4	101.2	15.8	17.1	79.9	7.0	7.8
LnGrp LOS	E	A	E	E	A	E	F	B	B	E	A	A
Approach Vol, veh/h		54			46			1854			2121	
Approach Delay, s/veh		58.8			58.5			19.1			16.4	
Approach LOS		E			E			B			B	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	27.8	87.7		14.5	10.9	104.6		14.5				
Change Period (Y+Rc), s	4.6	5.8		4.6	4.6	5.8		4.6				
Max Green Setting (Gmax), s	26.4	55.2		33.4	6.4	75.2		33.4				
Max Q Clear Time (g_c+I1), s	23.1	31.8		7.2	7.0	22.4		5.7				
Green Ext Time (p_c), s	0.1	13.1		0.2	0.0	19.8		0.2				

Intersection Summary			
HCM 6th Ctrl Delay		18.7	
HCM 6th LOS		B	

Goodman Commerce Center (JN 15593)
Opening Year (2025) With Project
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Valley View St. & Plaza Dr.

Cycle (sec):	100	Critical Vol./Cap.(X):	0.582
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	28	Level Of Service:	A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	1 0	2	1 0	1 0	2	1 0	1 0	0	1 0	1 0	0	1 0
Volume Module:												
Base Vol:	62	1587	188	264	1620	214	21	9	27	12	0	40
Growth 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
Initial Bse:	62	1587	188	264	1620	214	21	9	27	12	0	40
Added Vol:	0	0	0	0	0	5	2	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	62	1587	188	264	1620	219	23	9	27	12	0	40
User 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
PHF 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
PHF Volume:	62	1587	188	264	1620	219	23	9	27	12	0	40
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	62	1587	188	264	1620	219	23	9	27	12	0	40
PCE 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
MLF 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
FinalVolume:	62	1587	188	264	1620	219	23	9	27	12	0	40
Saturation Flow Module:												
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.68	0.32	1.00	2.64	0.36	1.00	0.25	0.75	1.00	0.00	1.00
Final Sat.:	1700	4560	540	1700	4493	607	1700	425	1275	1700	0	1700
Capacity Analysis Module:												
Vol/Sat:	0.04	0.35	0.35	0.16	0.36	0.36	0.01	0.02	0.02	0.01	0.00	0.02
Crit Moves:		****		****				****		****		

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Goodman Commerce Center (JN 15593)
Opening Year (2025) With Project
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Douglas Dr. & Katella Av.

Cycle (sec):	100	Critical Vol./Cap.(X):	0.565
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	27	Level Of Service:	A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	1 0	0 1	0	1 0	1 0	1	1 0	3 0	1	1 0	3 0	1
Volume Module:												
Base Vol:	86	1	7	27	2	69	18	2104	33	9	1755	6
Growth 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
Initial Bse:	86	1	7	27	2	69	18	2104	33	9	1755	6
Added Vol:	0	0	0	4	0	11	6	0	0	0	0	3
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	86	1	7	31	2	80	24	2104	33	9	1755	9
User 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
PHF 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
PHF Volume:	86	1	7	31	2	80	24	2104	33	9	1755	9
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	86	1	7	31	2	80	24	2104	33	9	1755	9
PCE 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
MLF 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
FinalVolume:	86	1	7	31	2	80	24	2104	33	9	1755	9
Saturation Flow Module:												
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.12	0.88	1.00	1.00	1.00	1.00	3.00	1.00	1.00	3.00	1.00
Final Sat.:	1700	213	1488	1700	1700	1700	1700	5100	1700	1700	5100	1700
Capacity Analysis Module:												
Vol/Sat:	0.05	0.00	0.00	0.02	0.00	0.05	0.01	0.41	0.02	0.01	0.34	0.01
Crit Moves:	****					****		****		****		

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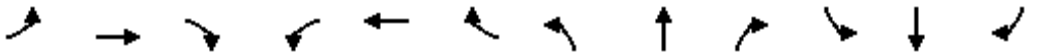
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	24	2104	33	9	1755	9	86	1	31	2	80
Future Volume (vph)	24	2104	33	9	1755	9	86	1	31	2	80
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Perm	NA	Perm	NA	Perm
Protected Phases	5	2		1	6			8		4	
Permitted Phases			2			6	8		4		4
Detector Phase	5	2	2	1	6	6	8	8	4	4	4
Switch Phase											
Minimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Minimum Split (s)	9.6	22.8	22.8	9.6	22.8	22.8	40.6	40.6	40.6	40.6	40.6
Total Split (s)	11.0	77.0	77.0	11.0	77.0	77.0	42.0	42.0	42.0	42.0	42.0
Total Split (%)	8.5%	59.2%	59.2%	8.5%	59.2%	59.2%	32.3%	32.3%	32.3%	32.3%	32.3%
Yellow Time (s)	3.6	4.8	4.8	3.6	4.8	4.8	3.6	3.6	3.6	3.6	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	5.8	4.6	5.8	5.8	4.6	4.6	4.6	4.6	4.6
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag					
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes					
Recall Mode	None	C-Max	C-Max	None	C-Max	C-Max	None	None	None	None	None
Act Effct Green (s)	6.5	95.4	95.4	5.6	90.5	90.5	21.9	21.9	21.9	21.9	21.9
Actuated g/C Ratio	0.05	0.73	0.73	0.04	0.70	0.70	0.17	0.17	0.17	0.17	0.17
v/c Ratio	0.34	0.69	0.04	0.14	0.61	0.01	0.45	0.04	0.16	0.01	0.29
Control Delay	70.4	14.1	2.0	64.0	14.9	0.0	52.0	19.6	42.5	36.0	9.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	70.4	14.1	2.0	64.0	14.9	0.0	52.0	19.6	42.5	36.0	9.3
LOS	E	B	A	E	B	A	D	B	D	D	A
Approach Delay		14.6			15.0			49.2		18.9	
Approach LOS		B			B			D		B	

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 130	
Offset: 0 (0%), Referenced to phase 2:EBT and 6:WBT, Start of Yellow	
Natural Cycle: 110	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.69	
Intersection Signal Delay: 15.7	Intersection LOS: B
Intersection Capacity Utilization 67.1%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 1: Douglas Dr. & Katella Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	24	2104	33	9	1755	9	86	1	7	31	2	80
Future Volume (veh/h)	24	2104	33	9	1755	9	86	1	7	31	2	80
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		1.00	1.00		0.99
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	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adj Flow Rate, veh/h	27	2364	31	10	1972	10	97	1	4	35	2	56
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	39	3613	1097	19	3556	1080	170	28	112	173	161	134
Arrive On Green	0.02	0.78	0.78	0.01	0.77	0.77	0.09	0.09	0.09	0.09	0.09	0.09
Sat Flow, veh/h	1619	4641	1409	1619	4641	1410	1223	297	1189	1283	1700	1420
Grp Volume(v), veh/h	27	2364	31	10	1972	10	97	0	5	35	2	56
Grp Sat Flow(s),veh/h/ln	1619	1547	1409	1619	1547	1410	1223	0	1486	1283	1700	1420
Q Serve(g_s), s	2.2	29.9	0.6	0.8	22.5	0.2	10.2	0.0	0.4	3.3	0.1	4.8
Cycle Q Clear(g_c), s	2.2	29.9	0.6	0.8	22.5	0.2	10.3	0.0	0.4	3.7	0.1	4.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.80	1.00		1.00
Lane Grp Cap(c), veh/h	39	3613	1097	19	3556	1080	170	0	141	173	161	134
V/C Ratio(X)	0.70	0.65	0.03	0.53	0.55	0.01	0.57	0.00	0.04	0.20	0.01	0.42
Avail Cap(c_a), veh/h	80	3613	1097	80	3556	1080	406	0	428	420	489	409
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	1.00	1.00
Uniform Delay (d), s/veh	63.0	6.5	3.3	63.9	6.2	3.6	58.0	0.0	53.5	55.2	53.4	55.5
Incr Delay (d2), s/veh	8.1	0.9	0.0	8.3	0.6	0.0	3.0	0.0	0.1	0.6	0.0	2.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	7.5	0.2	0.4	5.8	0.1	3.3	0.0	0.2	1.1	0.1	1.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	71.0	7.4	3.3	72.2	6.8	3.6	61.0	0.0	53.6	55.7	53.4	57.5
LnGrp LOS	E	A	A	E	A	A	E	A	D	E	D	E
Approach Vol, veh/h		2422			1992			102			93	
Approach Delay, s/veh		8.1			7.1			60.7			56.8	
Approach LOS		A			A			E			E	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.1	107.0		16.9	7.7	105.4		16.9				
Change Period (Y+Rc), s	4.6	5.8		4.6	4.6	5.8		4.6				
Max Green Setting (Gmax), s	6.4	71.2		37.4	6.4	71.2		37.4				
Max Q Clear Time (g_c+I1), s	2.8	31.9		6.8	4.2	24.5		12.3				
Green Ext Time (p_c), s	0.0	26.8		0.3	0.0	22.5		0.3				

Intersection Summary			
HCM 6th Ctrl Delay		9.8	
HCM 6th LOS		A	

Goodman Commerce Center (JN 15593)
Opening Year (2025) With Project WITH IMPROVEMENTS
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Douglas Dr. & Katella Av.

Cycle (sec):	100	Critical Vol./Cap.(X):	0.565
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	27	Level Of Service:	A

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Permitted			Permitted			Protected			Protected		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	1 0	0 1	0	1 0	1 0	1	1 0	3 0	1	1 0	2 1	0
Volume Module:												
Base Vol:	86	1	7	27	2	69	18	2104	33	9	1755	6
Growth 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
Initial Bse:	86	1	7	27	2	69	18	2104	33	9	1755	6
Added Vol:	0	0	0	4	0	11	6	0	0	0	0	3
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	86	1	7	31	2	80	24	2104	33	9	1755	9
User 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
PHF 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
PHF Volume:	86	1	7	31	2	80	24	2104	33	9	1755	9
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	86	1	7	31	2	80	24	2104	33	9	1755	9
PCE 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
MLF 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
FinalVolume:	86	1	7	31	2	80	24	2104	33	9	1755	9
Saturation Flow Module:												
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.12	0.88	1.00	1.00	1.00	1.00	3.00	1.00	1.00	2.98	0.02
Final Sat.:	1700	213	1488	1700	1700	1700	1700	5100	1700	1700	5074	26
Capacity Analysis Module:												
Vol/Sat:	0.05	0.00	0.00	0.02	0.00	0.05	0.01	0.41	0.02	0.01	0.35	0.35
Crit Moves:	****					****		****		****		

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Intersection	
Intersection Delay, s/veh	7.9
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	4	8	121	2	2	6	3	29	5	10	0
Future Vol, veh/h	0	4	8	121	2	2	6	3	29	5	10	0
Peak Hour Factor	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	5	11	161	3	3	8	4	39	7	13	0
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	6.9	8.3	7.1	7.5
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	16%	0%	97%	33%
Vol Thru, %	8%	33%	2%	67%
Vol Right, %	76%	67%	2%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	38	12	125	15
LT Vol	6	0	121	5
Through Vol	3	4	2	10
RT Vol	29	8	2	0
Lane Flow Rate	51	16	167	20
Geometry Grp	1	1	1	1
Degree of Util (X)	0.055	0.017	0.195	0.025
Departure Headway (Hd)	3.908	3.749	4.219	4.43
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	922	942	848	813
Service Time	1.908	1.824	2.255	2.431
HCM Lane V/C Ratio	0.055	0.017	0.197	0.025
HCM Control Delay	7.1	6.9	8.3	7.5
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.2	0.1	0.7	0.1

Intersection	
Int Delay, s/veh	2.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	109	3	43	105	2	5	0	16	7	1	0
Future Vol, veh/h	0	109	3	43	105	2	5	0	16	7	1	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	100	-	-	100	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	1	-	-	1	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	63	63	63	63	63	63	63	63	63	63	63	63
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	173	5	68	167	3	8	0	25	11	2	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	170	0	0	178	0	0	482	482	176	493	483	169
Stage 1	-	-	-	-	-	-	176	176	-	305	305	-
Stage 2	-	-	-	-	-	-	306	306	-	188	178	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1420	-	-	1410	-	-	498	487	872	490	486	880
Stage 1	-	-	-	-	-	-	831	757	-	709	666	-
Stage 2	-	-	-	-	-	-	708	665	-	818	756	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1420	-	-	1410	-	-	479	464	872	458	463	880
Mov Cap-2 Maneuver	-	-	-	-	-	-	551	521	-	536	511	-
Stage 1	-	-	-	-	-	-	831	757	-	709	634	-
Stage 2	-	-	-	-	-	-	672	633	-	794	756	-

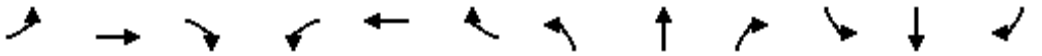
Approach	EB	WB	NB	SB
HCM Control Delay, s	0	2.2	9.9	11.9
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	766	1420	-	-	1410	-	-	533
HCM Lane V/C Ratio	0.044	-	-	-	0.048	-	-	0.024
HCM Control Delay (s)	9.9	0	-	-	7.7	-	-	11.9
HCM Lane LOS	A	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	0.1	0	-	-	0.2	-	-	0.1

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	232	0	169	31	16	2061	54	1582
Future Volume (vph)	232	0	169	31	16	2061	54	1582
Turn Type	Perm	NA	Perm	NA	Prot	NA	Prot	NA
Protected Phases		4		8	5	2	1	6
Permitted Phases	4		8					
Detector Phase	4	4	8	8	5	2	1	6
Switch Phase								
Minimum Initial (s)	10.0	10.0	10.0	10.0	5.0	10.0	5.0	10.0
Minimum Split (s)	37.6	37.6	14.6	14.6	9.6	22.8	9.6	22.8
Total Split (s)	50.0	50.0	50.0	50.0	11.0	69.0	11.0	69.0
Total Split (%)	38.5%	38.5%	38.5%	38.5%	8.5%	53.1%	8.5%	53.1%
Yellow Time (s)	3.6	3.6	3.6	3.6	3.6	4.8	3.6	4.8
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	4.6	4.6	4.6	4.6	5.8	4.6	5.8
Lead/Lag					Lead	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	C-Max	None	C-Max
Act Effct Green (s)	45.4	45.4	45.4	45.4	5.7	65.4	6.2	69.8
Actuated g/C Ratio	0.35	0.35	0.35	0.35	0.04	0.50	0.05	0.54
v/c Ratio	1.46	0.19	0.44	0.72	0.24	0.93	0.73	0.68
Control Delay	268.9	5.7	36.8	35.5	68.0	38.7	106.6	24.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	268.9	5.7	36.8	35.5	68.0	38.7	106.6	24.5
LOS	F	A	D	D	E	D	F	C
Approach Delay		188.7		35.9		39.0		27.1
Approach LOS		F		D		D		C

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 130	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 110	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 1.46	
Intersection Signal Delay: 45.0	Intersection LOS: D
Intersection Capacity Utilization 104.3%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 4: Valley View St. & Plaza Dr./Chip Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	232	0	102	169	31	369	16	2061	12	54	1582	40
Future Volume (veh/h)	232	0	102	169	31	369	16	2061	12	54	1582	40
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.98	1.00		0.97
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	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adj Flow Rate, veh/h	242	0	86	176	32	325	17	2147	12	56	1648	39
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	185	0	503	422	46	464	29	2344	13	70	2413	57
Arrive On Green	0.35	0.00	0.35	0.35	0.35	0.35	0.02	0.49	0.49	0.04	0.52	0.52
Sat Flow, veh/h	931	0	1439	1191	131	1330	1619	4762	27	1619	4660	110
Grp Volume(v), veh/h	242	0	86	176	0	357	17	1395	764	56	1094	593
Grp Sat Flow(s),veh/h/ln	931	0	1439	1191	0	1461	1619	1547	1695	1619	1547	1677
Q Serve(g_s), s	18.0	0.0	5.4	15.6	0.0	27.4	1.4	54.2	54.2	4.5	34.3	34.3
Cycle Q Clear(g_c), s	45.4	0.0	5.4	21.0	0.0	27.4	1.4	54.2	54.2	4.5	34.3	34.3
Prop In Lane	1.00		1.00	1.00		0.91	1.00		0.02	1.00		0.07
Lane Grp Cap(c), veh/h	185	0	503	422	0	510	29	1523	834	70	1602	868
V/C Ratio(X)	1.31	0.00	0.17	0.42	0.00	0.70	0.60	0.92	0.92	0.80	0.68	0.68
Avail Cap(c_a), veh/h	185	0	503	422	0	510	80	1523	834	80	1602	868
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	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	58.7	0.0	29.3	36.5	0.0	36.4	63.4	30.5	30.5	61.7	23.4	23.4
Incr Delay (d2), s/veh	173.3	0.0	0.2	0.7	0.0	4.2	7.1	10.1	16.4	34.3	2.4	4.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	15.1	0.0	1.9	4.7	0.0	10.4	0.6	20.9	24.4	2.5	12.2	13.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	232.0	0.0	29.4	37.2	0.0	40.7	70.5	40.6	47.0	95.9	25.8	27.7
LnGrp LOS	F	A	C	D	A	D	E	D	D	F	C	C
Approach Vol, veh/h		328			533			2176			1743	
Approach Delay, s/veh		178.9			39.5			43.1			28.7	
Approach LOS		F			D			D			C	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	10.2	69.8		50.0	6.9	73.1		50.0				
Change Period (Y+Rc), s	4.6	5.8		4.6	4.6	5.8		4.6				
Max Green Setting (Gmax), s	6.4	63.2		45.4	6.4	63.2		45.4				
Max Q Clear Time (g_c+I1), s	6.5	56.2		47.4	3.4	36.3		29.4				
Green Ext Time (p_c), s	0.0	5.9		0.0	0.0	12.9		2.9				

Intersection Summary			
HCM 6th Ctrl Delay		46.8	
HCM 6th LOS		D	

Goodman Commerce Center (JN 15593)
Opening Year (2025) With Project
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 Valley View St. & Plaza Dr.

Cycle (sec):	100	Critical Vol./Cap.(X):	0.860
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	68	Level Of Service:	D

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Protected			Protected			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	1 0	2	1 0	1 0	2	1 0	1 0	0	1 0	1 0	0	1 0
Volume Module:												
Base Vol:	16	2061	12	54	1582	37	226	0	102	169	31	369
Growth 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
Initial Bse:	16	2061	12	54	1582	37	226	0	102	169	31	369
Added Vol:	0	0	0	0	0	3	6	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	16	2061	12	54	1582	40	232	0	102	169	31	369
User 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
PHF 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
PHF Volume:	16	2061	12	54	1582	40	232	0	102	169	31	369
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	16	2061	12	54	1582	40	232	0	102	169	31	369
PCE 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
MLF 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
FinalVolume:	16	2061	12	54	1582	40	232	0	102	169	31	369
Saturation Flow Module:												
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.98	0.02	1.00	2.93	0.07	1.00	0.00	1.00	1.00	0.08	0.92
Final Sat.:	1700	5070	30	1700	4974	126	1700	0	1700	1700	132	1568
Capacity Analysis Module:												
Vol/Sat:	0.01	0.41	0.41	0.03	0.32	0.32	0.14	0.00	0.06	0.10	0.24	0.24
Crit Moves:		****			****			****			****	

Traffix 8.0.0715 (c) 2008 Dowling Assoc. Licensed to URBAN CROSSROADS, IRVINE

APPENDIX 6.3: FUTURE YEAR (2025) WITHOUT PROJECT CONDITIONS TRAFFIC SIGNAL WARRANT ANALYSIS WORKSHEETS

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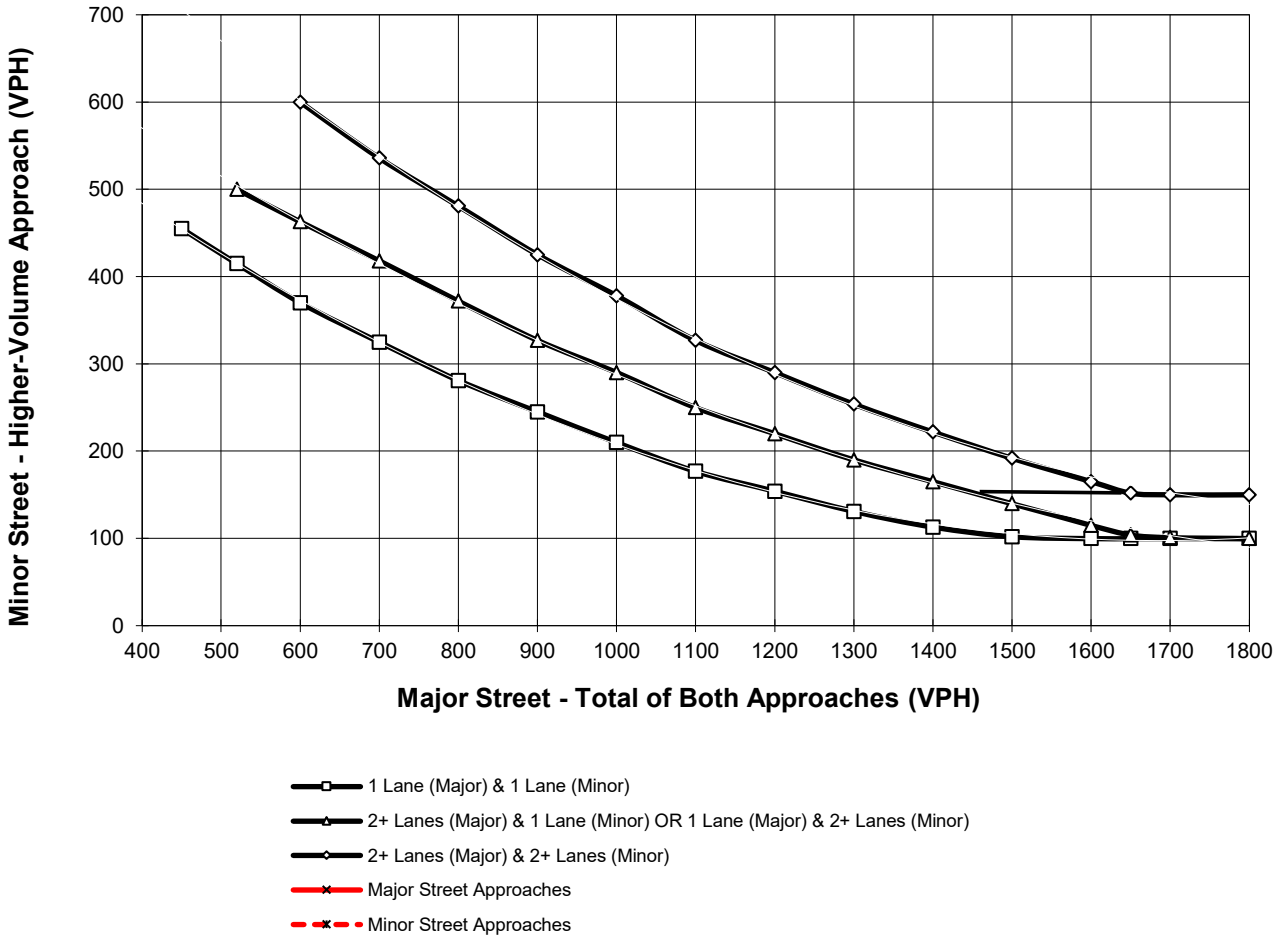
Figure 4C-3. Warrant 3, Peak Hour

Traffic Conditions = **2025 Without Project Conditions - Weekday AM Peak Hour**

Major Street Name = **Plaza Dr.**
Total of Both Approaches (VPH) = **65**
Number of Approach Lanes on Major Street = **1**

Minor Street Name = **Douglas Dr.**
High Volume Approach (VPH) = **43**
Number of Approach Lanes On Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 150 vph applies as the lower threshold for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold for a minor-street approach with one lane

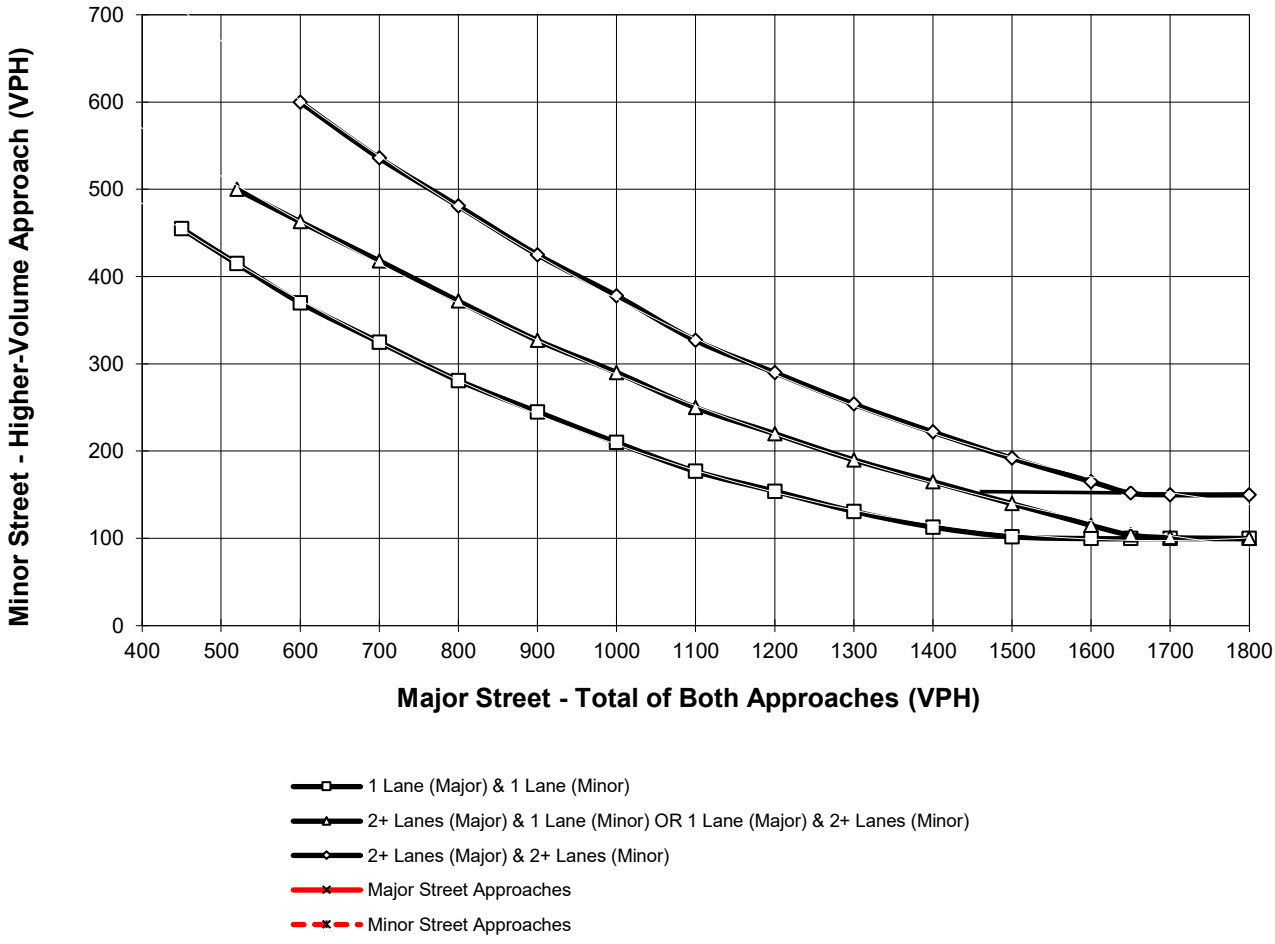
Figure 4C-3. Warrant 3, Peak Hour

Traffic Conditions = **2025 Without Project Conditions - Weekday PM Peak Hour**

Major Street Name = **Plaza Dr.**
Total of Both Approaches (VPH) = **252**
Number of Approach Lanes on Major Street = **1**

Minor Street Name = **McDonnell Dr.**
High Volume Approach (VPH) = **21**
Number of Approach Lanes On Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 150 vph applies as the lower threshold for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold for a minor-street approach with one lane

APPENDIX 6.4: FUTURE YEAR (2025) WITH PROJECT CONDITIONS TRAFFIC SIGNAL WARRANT ANALYSIS WORKSHEETS

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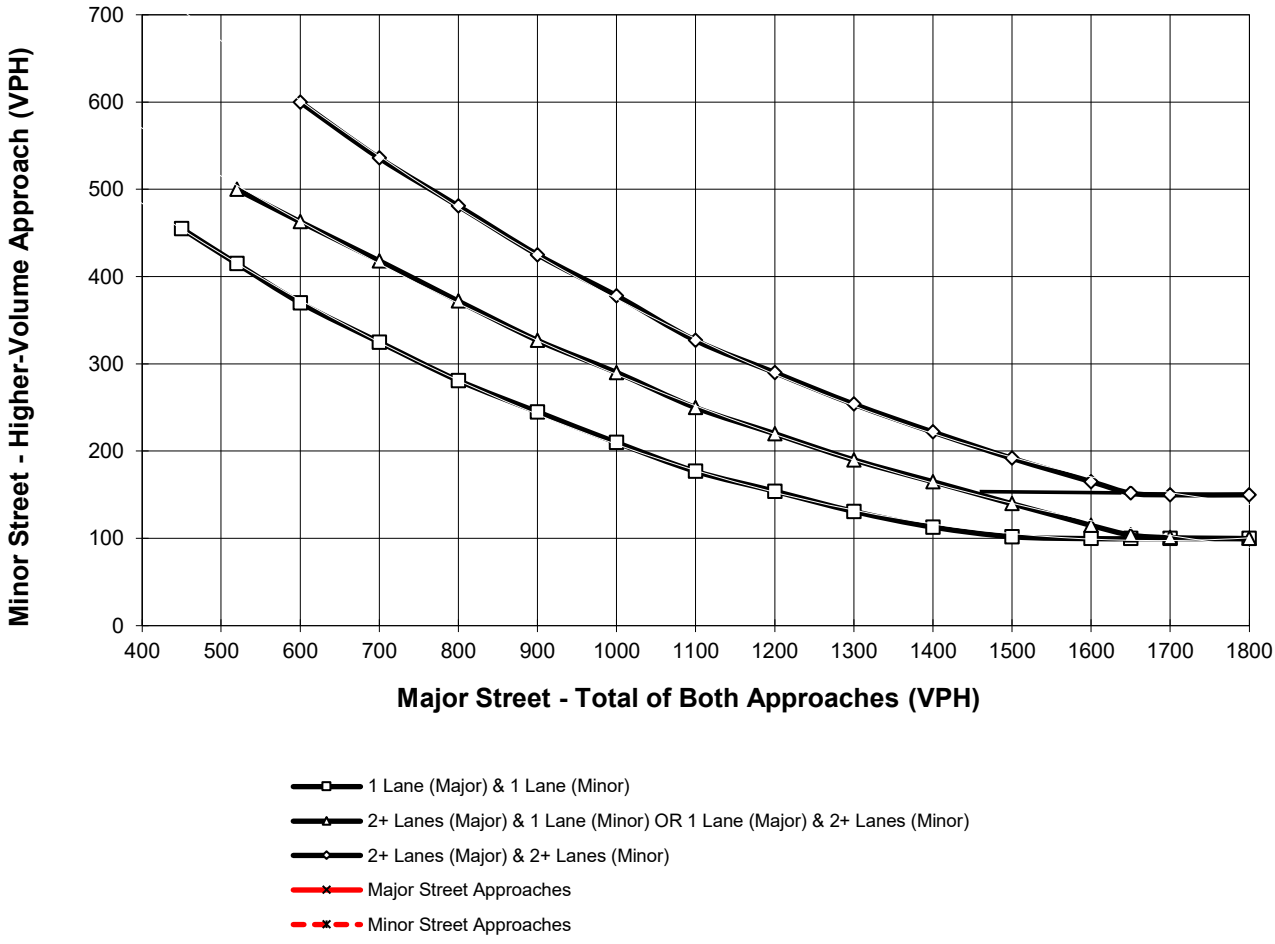
Figure 4C-3. Warrant 3, Peak Hour

Traffic Conditions = **2025 With Project Conditions - Weekday AM Peak Hour**

Major Street Name = **Plaza Dr.**
Total of Both Approaches (VPH) = **80**
Number of Approach Lanes on Major Street = **1**

Minor Street Name = **Douglas Dr.**
High Volume Approach (VPH) = **56**
Number of Approach Lanes On Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 150 vph applies as the lower threshold for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold for a minor-street approach with one lane

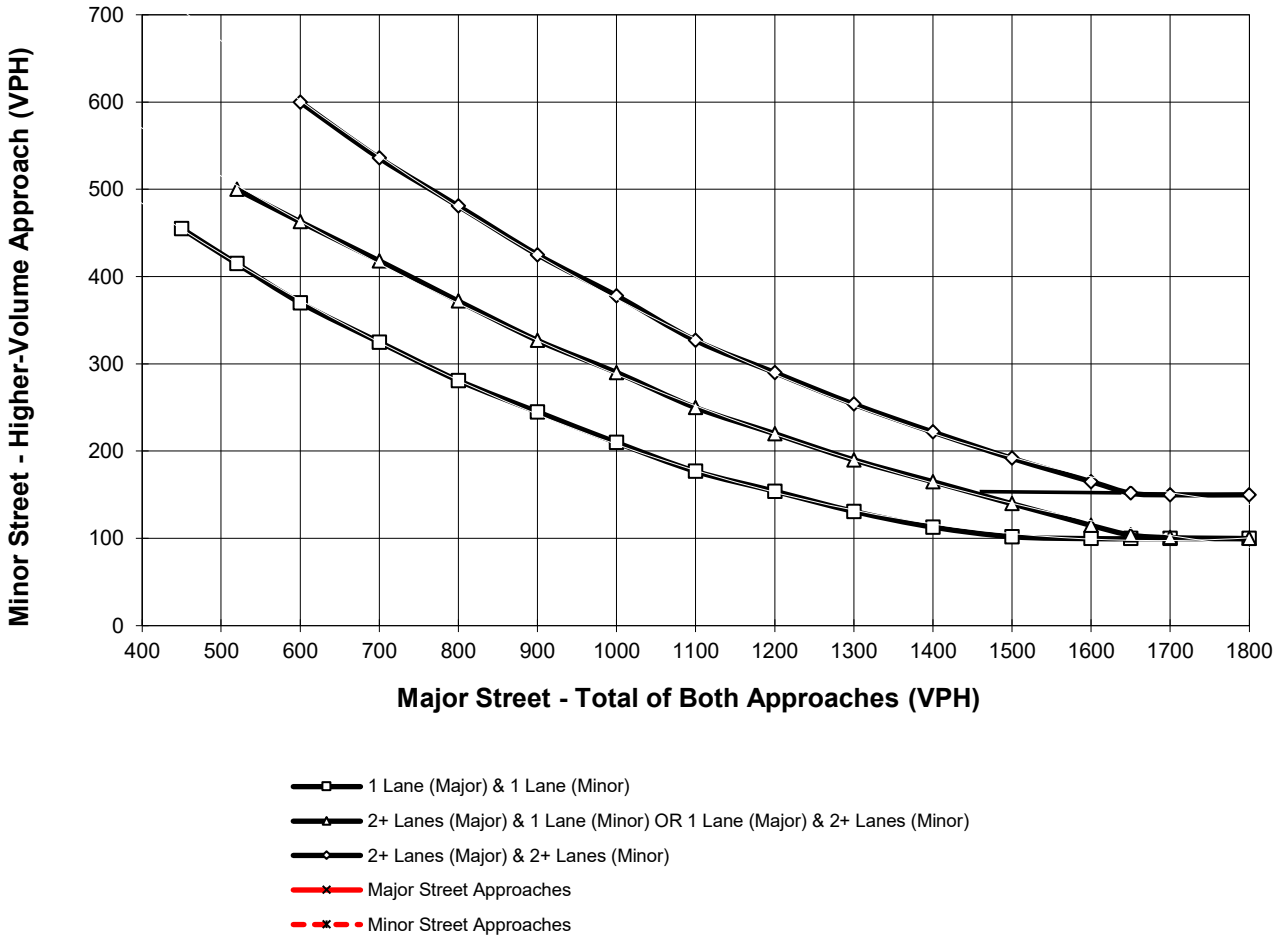
Figure 4C-3. Warrant 3, Peak Hour

Traffic Conditions = **2025 With Project Conditions - Weekday PM Peak Hour**

Major Street Name = **Plaza Dr.**
Total of Both Approaches (VPH) = **253**
Number of Approach Lanes on Major Street = **1**

Minor Street Name = **McDonnell Dr.**
High Volume Approach (VPH) = **21**
Number of Approach Lanes On Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 150 vph applies as the lower threshold for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold for a minor-street approach with one lane

APPENDIX G

VEHICLE MILES TRAVELED ANALYSIS

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CARLSBAD
CLOVIS
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

MEMORANDUM

DATE: December 15, 2023

TO: Alicia Velasco, City of Cypress

FROM: Ambarish Mukherjee, P.E., AICP

SUBJECT: 5665 Plaza Drive Project – Vehicle Miles Traveled (VMT) Analysis

LSA has prepared this memorandum documenting the methodology and findings of a vehicle miles traveled (VMT) analysis for the 5665 Plaza Drive Project (project) in the City of Cypress (City), California.

BACKGROUND

On December 28, 2018, the California Office of Administrative Law cleared the revised California Environmental Quality Act (CEQA) guidelines for use. Among the changes to the guidelines was the removal of vehicle delay and level of service (LOS) from consideration under CEQA. With the adopted guidelines, transportation impacts are to be evaluated based on a project's effect on VMT.

PROJECT DESCRIPTION

It is LSA's understanding that GLC Cypress LLC (Applicant) is proposing to demolish an approximately 150,626-square-foot (sf) office building (Assessor's Parcel Number 241-101-26) located at 5665 Plaza Drive and construct a 191,394 square foot warehouse building. The existing warehouse/office building is currently vacant and generating only nominal vehicle trips.

ANALYSIS METRICS

The City is yet to adopt the Senate Bill 743 (SB 743) guidelines; therefore, the VMT analysis has been based upon the methodology and significant threshold criteria identified in the Governor's Office of Planning and Research (OPR) *Technical Advisory* (TA), dated December 2018.

The project includes industrial land uses only. The OPR TA does not specifically recommend any VMT metric or threshold for industrial uses. However, since the land use is non-residential and could not be classified as retail land use, VMT-per-employee metric was used for purposes of evaluating the project.

Based on the OPR TA recommendations, the threshold for determining VMT impacts has been considered as 15 percent below the region's baseline VMT per capita for residential projects, and 15 percent below the region's baseline VMT per employee for non-residential/non-retail projects.

As per the OPR TA, a region should be defined based on where the majority of the project trips are contained. As such, the majority of project trips are estimated to start or end within the region defined for VMT analysis purposes. Typically, it is the county boundary within which a majority of those trips are contained. While the city boundary can also be considered as the region for residential uses, given that the project land use is non-residential and based on the understanding of the local trip patterns, it was determined that the entire Orange County would be the most appropriate region for the project for purposes of VMT analysis. As such, as recommended in the OPR Guidelines, if the project VMT per employee is greater than 85 percent of the existing countywide VMT per employee, the project constitutes a significant VMT impact.

METHODOLOGY

The OPR TA provides multiple screening criteria for land use projects. One of the screening criteria is a daily trip threshold. If the land use project generates less than 110 daily trips, the project can be screened from a detailed VMT analysis. The project includes demolition of existing office land uses and replaces them with industrial land uses. A trip generation analysis conducted by the traffic consultant looked at the difference in daily trips between the existing land uses and proposed land uses. It was observed that the proposed land uses produce 196 more daily trips than the existing office land uses. Since the difference in daily trips between the proposed and existing uses is greater than 110, it was concluded that a detailed VMT analysis using the regional travel demand model would be required to evaluate the project VMT impact. The Orange County Transportation Analysis Model (OCTAM) was used to determine the VMT impact of the project.

Project Traffic Analysis Zone Update

The first step in the preparation of this analysis was to update the Traffic Analysis Zones (TAZs) in the model that include the project area. The project needs to be isolated in a separate TAZ to estimate/determine the project VMT. OCTAM doesn't include the capability to split/add new TAZs, so a TAZ was borrowed for the project. That TAZ was used to estimate the project VMT and efficiency metric (i.e., VMT per employee).

OCTAM is a socioeconomic data-based model, hence project land uses were converted into model employment using land use-to-employment conversion factors. The project socioeconomic data were added to the project TAZ for the model run.

VMT Analysis

A baseline model run was conducted using socioeconomic data for the project and project location TAZs (as indicated above). No circulation/network modifications were identified for inclusion in the model network. The outputs from this updated model run were used to calculate the VMT per employee for the project.

As indicated before, VMT per employee metric is used to evaluate the project land use. The proposed project would constitute a significant impact if the project VMT metric is greater than 85 percent of the regional existing VMT metric. Hence the proposed project would constitute a significant impact if project VMT per employee is greater than 85 percent of the Orange County VMT

per employee (threshold). As can be seen from Table A, existing project VMT per employee is lower than the significant threshold; therefore, the project doesn't constitute any significant VMT impact.

Table A: Baseline Project and Regional VMT Per Employee Comparison

2016	5665 Plaza Drive (project)	Entire Orange County [1]	Threshold [2]	% Difference	Significant Impact
VMT per employee	20.3	24.1	20.5	-1%	No

Source: Compiled by LSA (2023).

[1] Obtained from Final Draft Guidelines For Evaluating Vehicle Miles Traveled Under CEQA for the County of Orange, September 17, 2020.

[2] 85% of the regional average (24.1*0.85=20.5) Baseline. Base year of the OCTAM model is 2016.

OCTAM = Orange County Transportation Analysis Model

VMT = vehicle miles traveled

CONCLUSIONS

Based on the recommendations from the OPR TA, the proposed 5665 Plaza Drive warehouse project was evaluated using VMT per employee metric. The project is not eligible to be screened out of a VMT analysis and therefore, a detailed VMT analysis was conducted for the project using the OCTAM model and using Orange County as the region. Based on the significance threshold criteria determined within the OPR TA, the project VMT per employee does not exceed the threshold. Therefore, the project will have a less than significant transportation impact.

Attachment: Vehicle Miles Traveled (VMT) Analysis Worksheet

LSA

Appendix A - VMT Calculation Worksheet

5665 Plaza Drive Project, City of Cypress - VMT Analysis

2016	5665 Plaza Drive (project)	Entire Orange County *	Threshold **
Total Employment	93	1,710,147	
Homebased Work (HBW) VMT	1,886	41,174,971	
HBW VMT per employee	**20.3**	**24.1**	**20.5**

**: Obtained from Final Draft Guidelines For Evaluating Vehicle Miles Traveled Under CEQA for the County of Orange, September 17, 2020*

***: 85% of the regional average (24.1*0.85=20.5)*

APPENDIX H

TRIBAL CONSULTATION CORRESPONDENCE

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CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Ralph Goff, Chairperson
Campo Band of Diegueno Mission Indians
36190 Church Road, Suite 1
Campo, CA 91906

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Mr. Goff:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

The proposed project includes the demolition of an existing five-story office building and the construction of a new light industrial building that would total approximately 191,394 square feet in size on an approximately 8.53-acre property located at 5665 Plaza Drive (project site) in the southern part of the City of Cypress (refer to Figure 1 for the location of the project site). The proposed project also includes associated site improvements, including landscaping, surface parking, and utility improvements. In addition, the proposed project would require site plan approval.

A recent search of the Sacred Lands Files conducted by the Native American Heritage Commission for the project site was negative for the presence of tribal cultural resources. If you would like to participate in formal tribal consultation for this proposed project pursuant to AB 52 and SB 18, please contact me via email at avelasco@cypressca.org. You may also call me at (714) 229-6720 for additional information. Should your tribe participate in the consultation process, please know that at your request, any sensitive information you share with the City regarding cultural places and/or

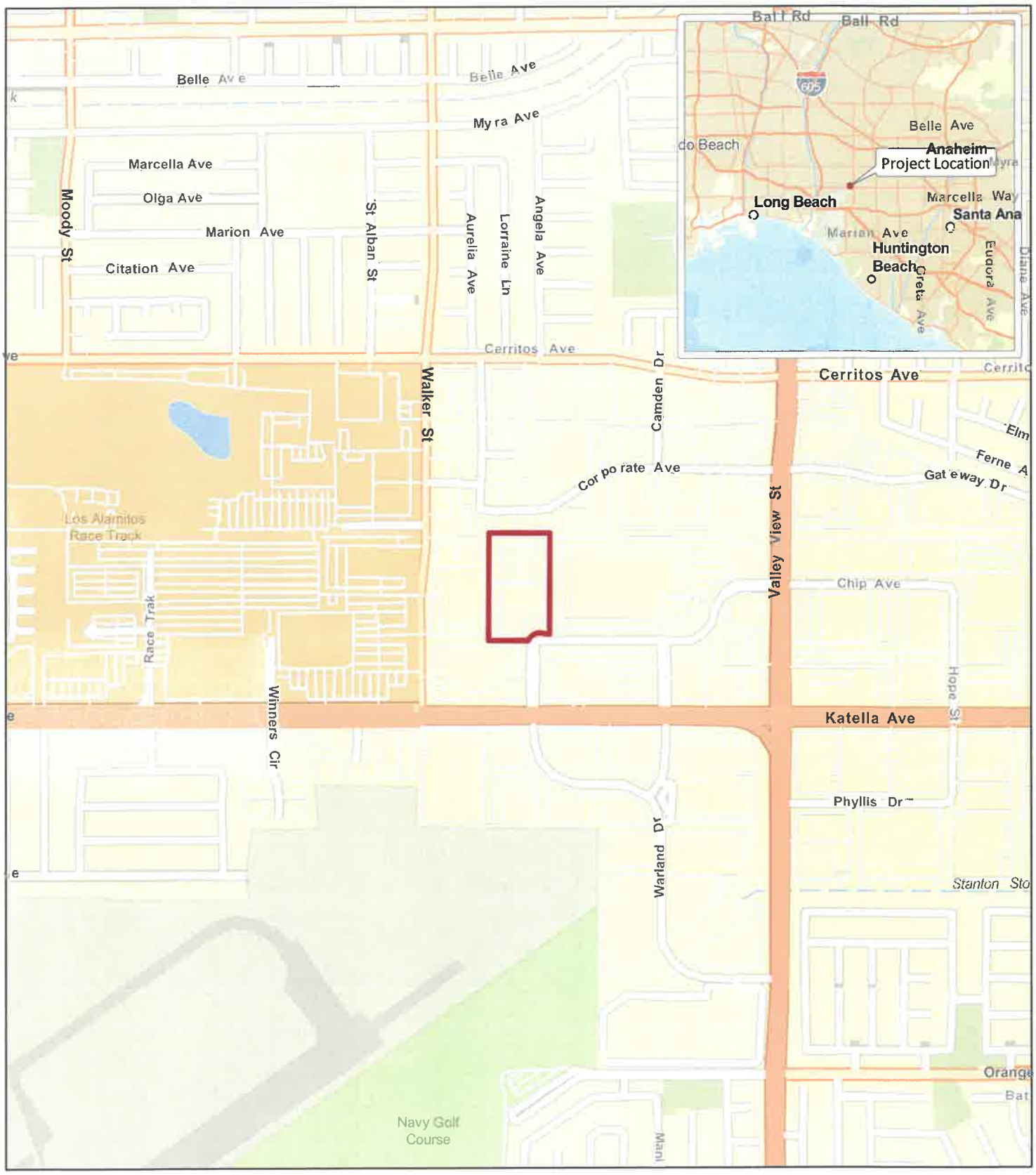
sacred sites will be kept strictly confidential and will not be divulged to the public. Thank you for your participation in this process.

Sincerely,

2023.11.2
1 09:56:48
-08'00'

Alicia Velasco
Planning Director

Attachment: Figure 1 –Project Location and Regional Vicinity



LSA

FIGURE 1

0 500 1000
FEET

SOURCE: Esri (2023)

J:\CCP2201.04\GIS\Pro\Cypress 5665 Plaza Drive Project\Cypress 5665 Plaza Drive Project.aprx (9/28/2023)

Cypress 5665 Plaza Drive Project

Regional Location

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Michael Garcia, Vice Chairperson
Ewiiaapaayp Band of Kumeyaay Indians
4054 Willows Road
Alpine, CA, 91901

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Mr. Garcia:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

The proposed project includes the demolition of an existing five-story office building and the construction of a new light industrial building that would total approximately 191,394 square feet in size on an approximately 8.53-acre property located at 5665 Plaza Drive (project site) in the southern part of the City of Cypress (refer to Figure 1 for the location of the project site). The proposed project also includes associated site improvements, including landscaping, surface parking, and utility improvements. In addition, the proposed project would require site plan approval.

A recent search of the Sacred Lands Files conducted by the Native American Heritage Commission for the project site was negative for the presence of tribal cultural resources. If you would like to participate in formal tribal consultation for this proposed project pursuant to AB 52 and SB 18, please contact me via email at avelasco@cypressca.org. You may also call me at (714) 229-6720 for additional information. Should your tribe participate in the consultation process, please know that at your request, any sensitive information you share with the City regarding cultural places and/or

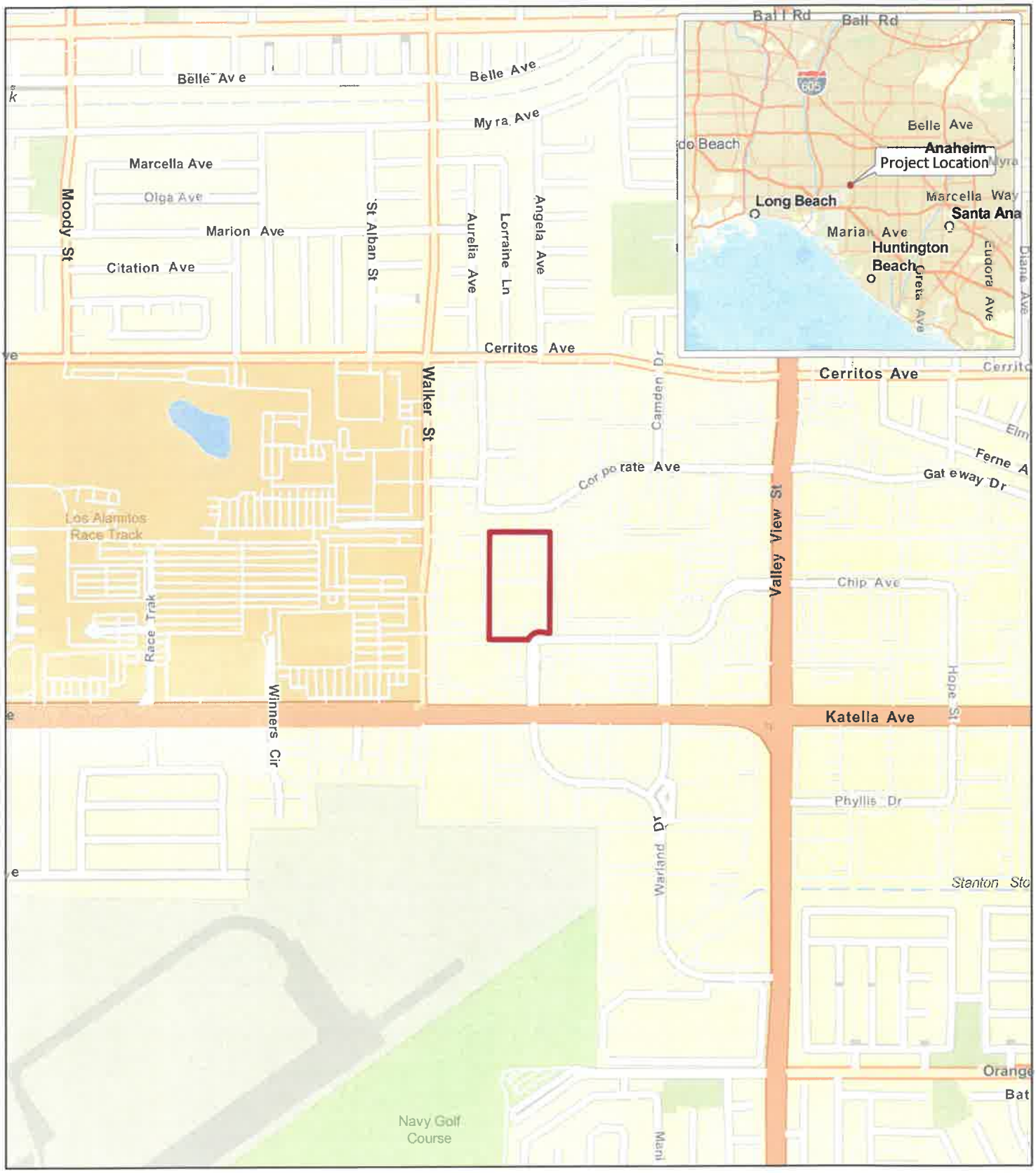
sacred sites will be kept strictly confidential and will not be divulged to the public. Thank you for your participation in this process.

Sincerely,

2023.11.2
1 09:56:48
-08'00'

Alicia Velasco
Planning Director

Attachment: Figure 1 –Project Location and Regional Vicinity



LSA

FIGURE 1

0 500 1000
FEET

SOURCE: Esri (2023)

J:\CCP2201.04\GIS\Pro\Cypress 5665 Plaza Drive Project\Cypress 5665 Plaza Drive Project.aprx (9/28/2023)

Cypress 5665 Plaza Drive Project

Regional Location

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Robert Pinto, Chairperson
Ewiiaapaayp Band of Kumeyaay Indians
4054 Willows Road
Alpine, CA, 9190

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Mr. Pinto:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

The proposed project includes the demolition of an existing five-story office building and the construction of a new light industrial building that would total approximately 191,394 square feet in size on an approximately 8.53-acre property located at 5665 Plaza Drive (project site) in the southern part of the City of Cypress (refer to Figure 1 for the location of the project site). The proposed project also includes associated site improvements, including landscaping, surface parking, and utility improvements. In addition, the proposed project would require site plan approval.

A recent search of the Sacred Lands Files conducted by the Native American Heritage Commission for the project site was negative for the presence of tribal cultural resources. If you would like to participate in formal tribal consultation for this proposed project pursuant to AB 52 and SB 18, please contact me via email at avelasco@cypressca.org. You may also call me at (714) 229-6720 for additional information. Should your tribe participate in the consultation process, please know that at your request, any sensitive information you share with the City regarding cultural places and/or

sacred sites will be kept strictly confidential and will not be divulged to the public. Thank you for your participation in this process.

Sincerely,

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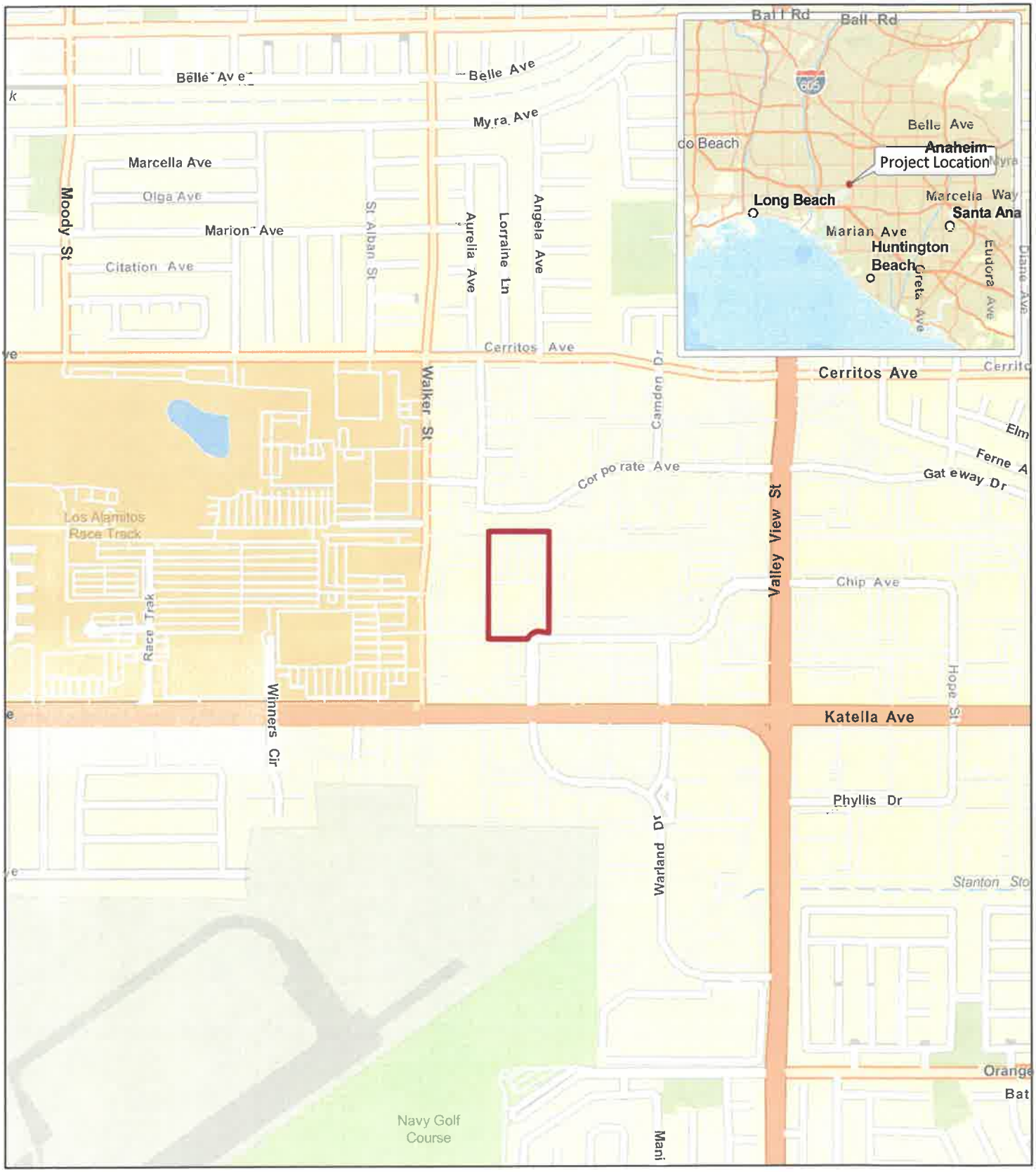
Alicia Velasco
Planning Director

Attachment: Figure 1 –Project Location and Regional Vicinity



LSA

FIGURE 1

SOURCE: Esri (2023)

J:\CCP2201.04\GIS\Pro\Cypress 5665 Plaza Drive Project\Cypress 5665 Plaza Drive Project.aprx (9/28/2023)

Cypress 5665 Plaza Drive Project

Regional Location

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Christina Swindall Martinez, Secretary
Gabrieleno Band of Mission Indians - Kizh Nation
P.O. Box 393
Covina, CA, 91723

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Ms. Martinez:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

The proposed project includes the demolition of an existing five-story office building and the construction of a new light industrial building that would total approximately 191,394 square feet in size on an approximately 8.53-acre property located at 5665 Plaza Drive (project site) in the southern part of the City of Cypress (refer to Figure 1 for the location of the project site). The proposed project also includes associated site improvements, including landscaping, surface parking, and utility improvements. In addition, the proposed project would require site plan approval.

A recent search of the Sacred Lands Files conducted by the Native American Heritage Commission for the project site was negative for the presence of tribal cultural resources. If you would like to participate in formal tribal consultation for this proposed project pursuant to AB 52 and SB 18, please contact me via email at avelasco@cypressca.org. You may also call me at (714) 229-6720 for additional information. Should your tribe participate in the consultation process, please know that at your request, any sensitive information you share with the City regarding cultural places and/or

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Alicia Velasco
Planning Director

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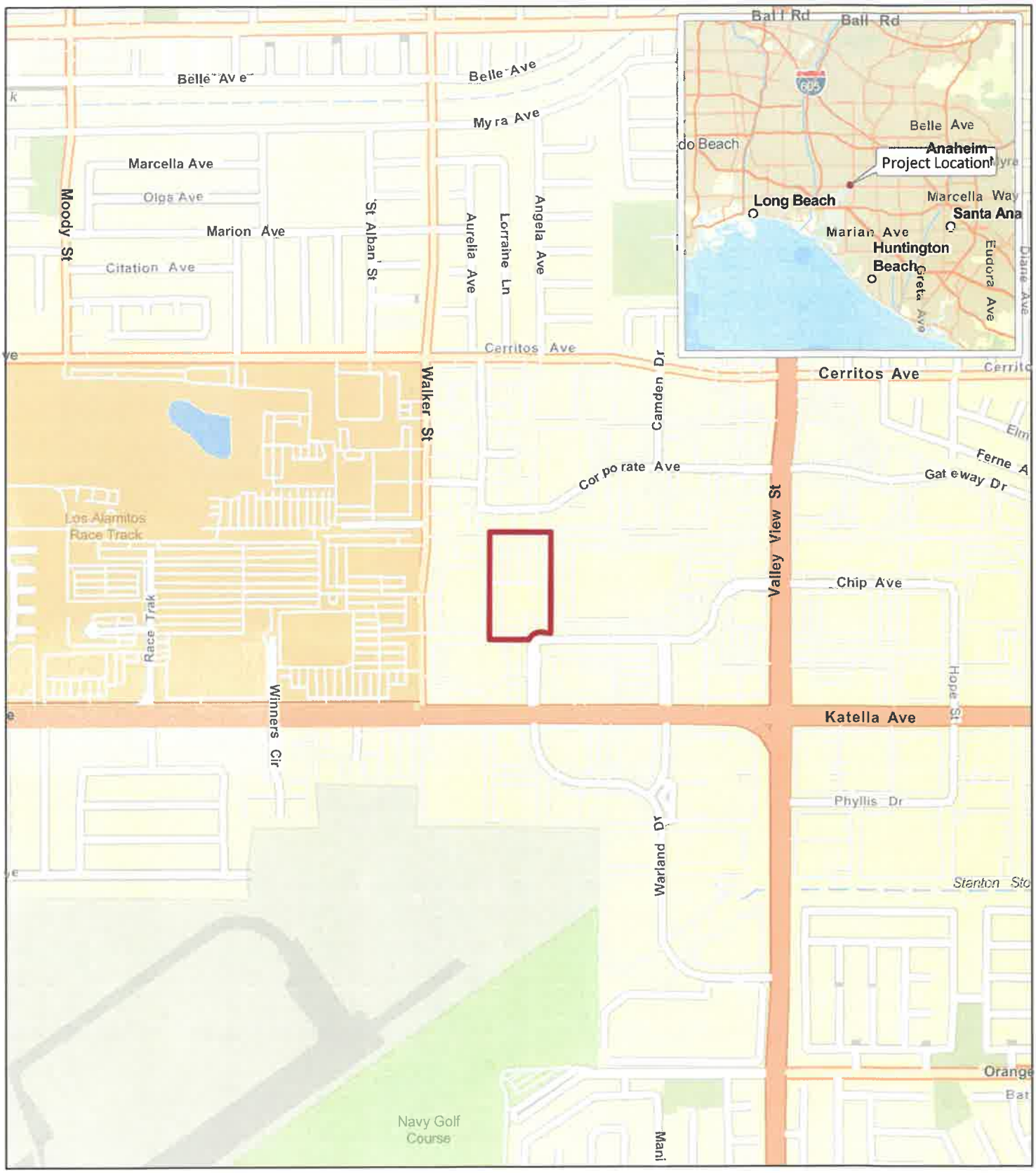

LSA

Project Site

FIGURE 1

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FEET

SOURCE: Esri (2023)

J:\CCP2201.04\GIS\Pro\Cypress 5665 Plaza Drive Project\Cypress 5665 Plaza Drive Project.aprx (9/28/2023)

Cypress 5665 Plaza Drive Project

Regional Location

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Andrew Salas, Chairperson
Gabrieleno Band of Mission Indians
Kizh Nation
PO Box 393
Covina, CA 91723

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Mr. Salas:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

The proposed project includes the demolition of an existing five-story office building and the construction of a new light industrial building that would total approximately 191,394 square feet in size on an approximately 8.53-acre property located at 5665 Plaza Drive (project site) in the southern part of the City of Cypress (refer to Figure 1 for the location of the project site). The proposed project also includes associated site improvements, including landscaping, surface parking, and utility improvements. In addition, the proposed project would require site plan approval.

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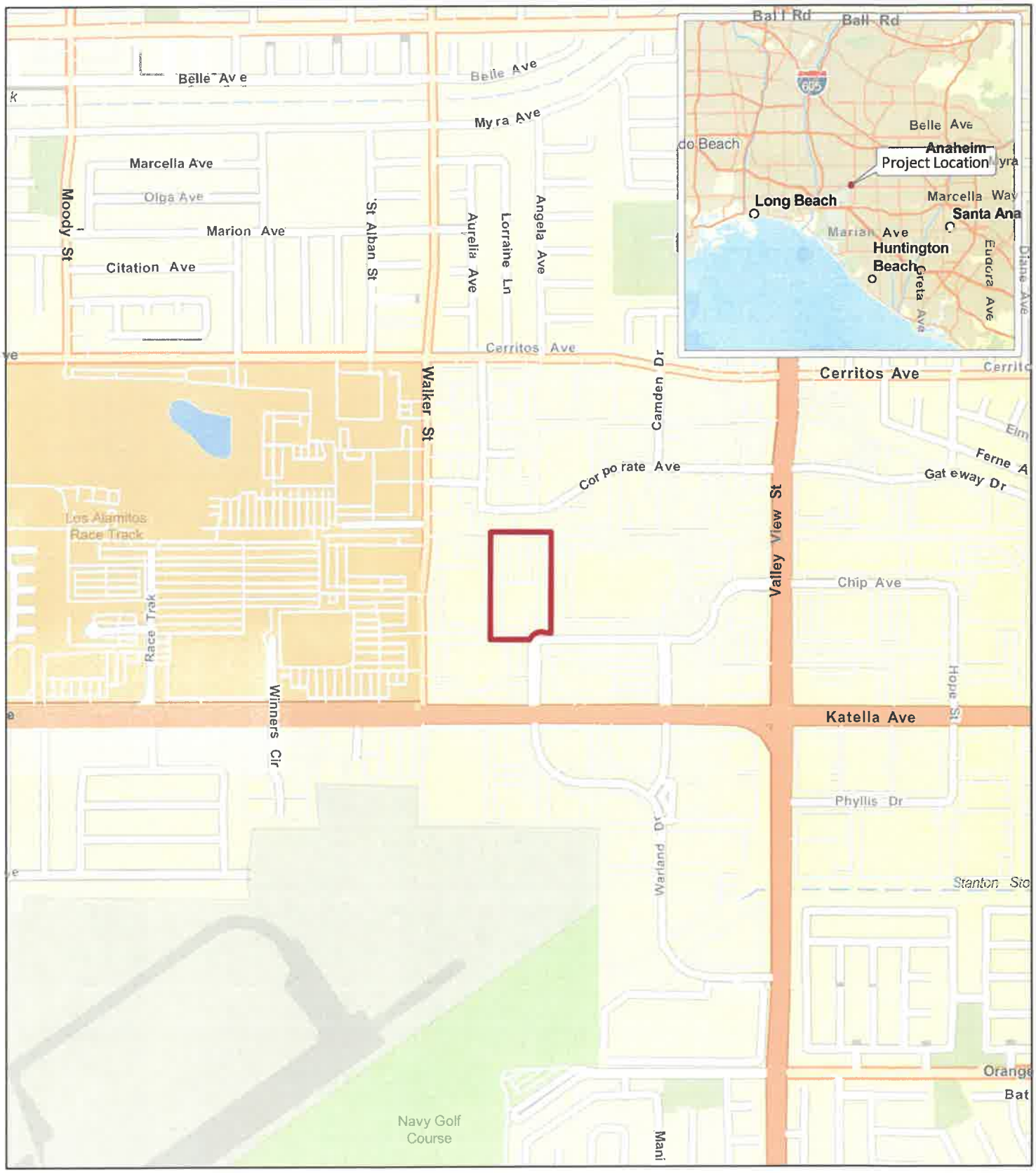
Alicia Velasco
Planning Director

Attachment: Figure 1 –Project Location and Regional Vicinity



LSA

Project Site

FIGURE 1

N

0 500 1000
FEET

SOURCE: Esri (2023)

J:\CCP2201.04\GIS\Pro\Cypress 5665 Plaza Drive Project\Cypress 5665 Plaza Drive Project.aprx (9/28/2023)

Cypress 5665 Plaza Drive Project

Regional Location

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Anthony Morales, Chairperson
Gabrieleno/Tongva San Gabriel Band of Mission Indians
PO Box 693
San Gabriel, CA 91778

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Mr. Morales:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

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A recent search of the Sacred Lands Files conducted by the Native American Heritage Commission for the project site was negative for the presence of tribal cultural resources. If you would like to participate in formal tribal consultation for this proposed project pursuant to AB 52 and SB 18, please contact me via email at avelasco@cypressca.org. You may also call me at (714) 229-6720 for additional information. Should your tribe participate in the consultation process, please know that at your request, any sensitive information you share with the City regarding cultural places and/or

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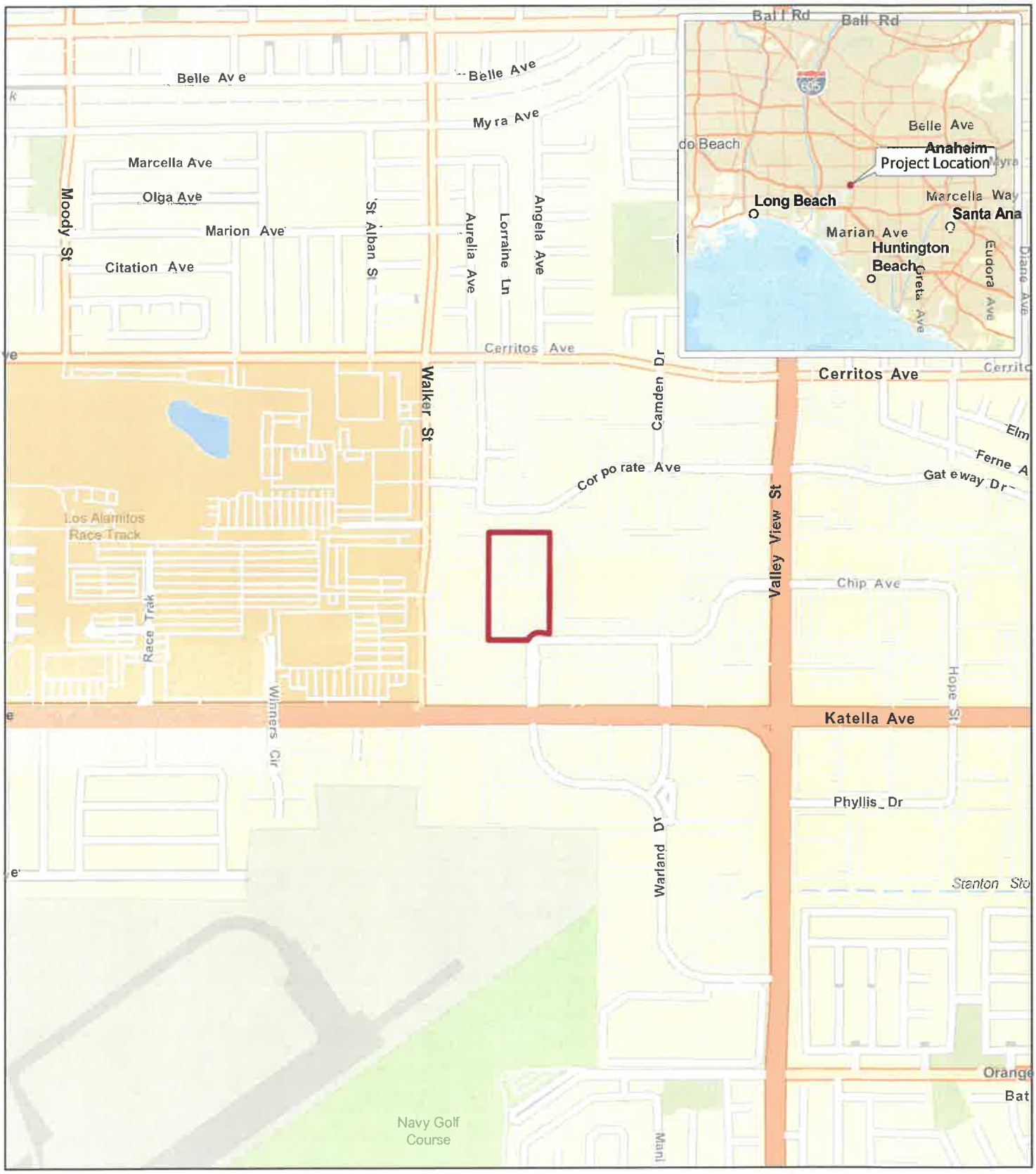
Alicia Velasco
Planning Director

Attachment: Figure 1 –Project Location and Regional Vicinity



LSA

FIGURE 1

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FEET

SOURCE: Esri (2023)

J:\CCP2201.04\GIS\Pro\Cypress 5665 Plaza Drive Project\Cypress 5665 Plaza Drive Project.aprx (9/28/2023)

Cypress 5665 Plaza Drive Project

Regional Location

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Sandonne Goad, Chairperson
Gabrielino/Tongva Nation
106 ½ Judge John Aiso Street, #231
Los Angeles, CA 90012

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Chairperson Goad:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

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A recent search of the Sacred Lands Files conducted by the Native American Heritage Commission for the project site was negative for the presence of tribal cultural resources. If you would like to participate in formal tribal consultation for this proposed project pursuant to AB 52 and SB 18, please contact me via email at avelasco@cypressca.org. You may also call me at (714) 229-6720 for additional information. Should your tribe participate in the consultation process, please know that at your request, any sensitive information you share with the City regarding cultural places and/or

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Alicia Velasco
Planning Director

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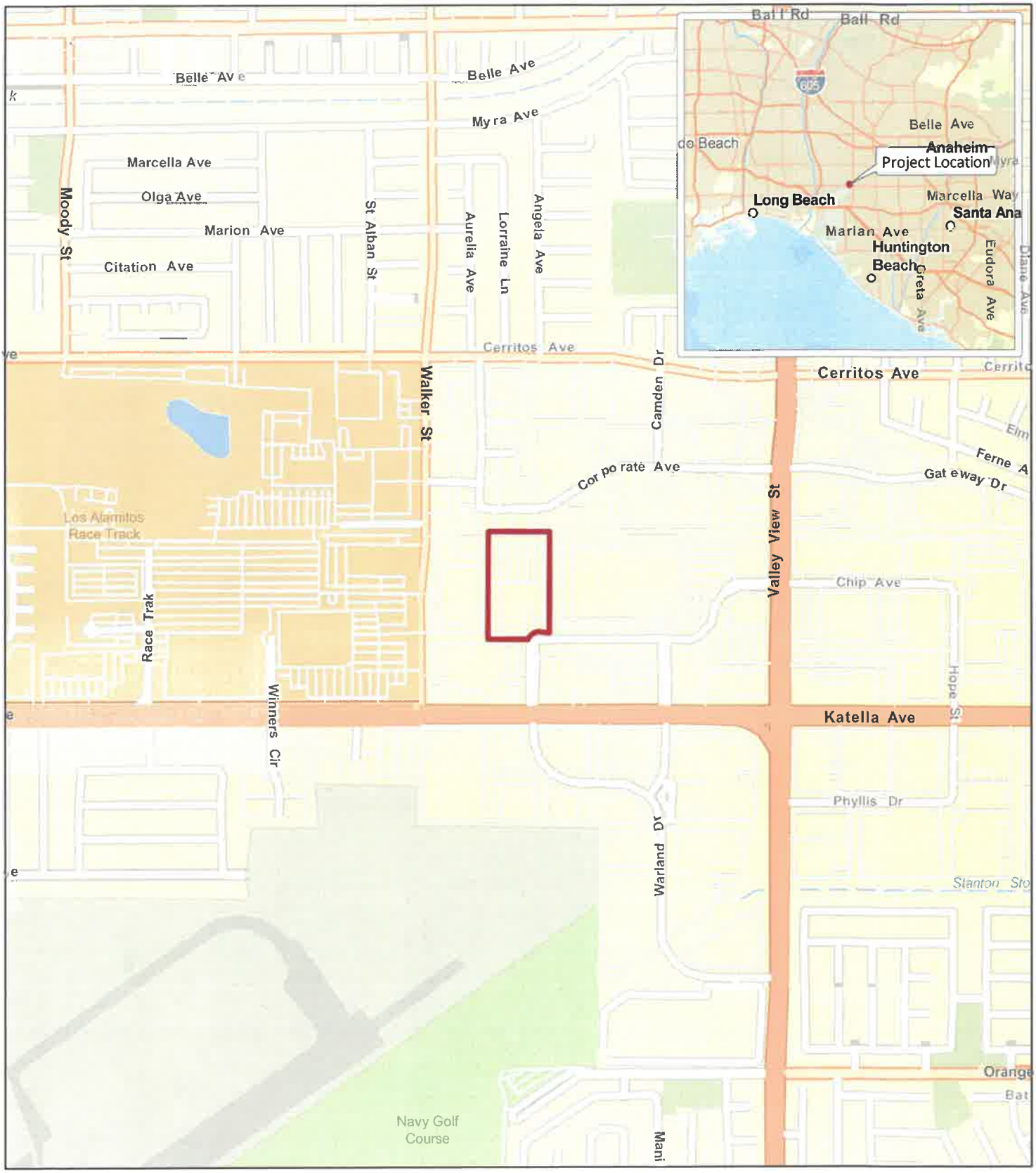

LSA

FIGURE 1

SOURCE: Esri (2023)

J:\CCP2201.04\GIS\Pro\Cypress 5665 Plaza Drive Project\Cypress 5665 Plaza Drive Project.aprx (9/28/2023)

Cypress 5665 Plaza Drive Project

Regional Location

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Christina Conley, Cultural Resource Administrator
Gabrielino Tongva Indians of California Tribal Council
P.O. Box 941078
Simi Valley, CA, 93094

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Ms. Conley:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

The proposed project includes the demolition of an existing five-story office building and the construction of a new light industrial building that would total approximately 191,394 square feet in size on an approximately 8.53-acre property located at 5665 Plaza Drive (project site) in the southern part of the City of Cypress (refer to Figure 1 for the location of the project site). The proposed project also includes associated site improvements, including landscaping, surface parking, and utility improvements. In addition, the proposed project would require site plan approval.

A recent search of the Sacred Lands Files conducted by the Native American Heritage Commission for the project site was negative for the presence of tribal cultural resources. If you would like to participate in formal tribal consultation for this proposed project pursuant to AB 52 and SB 18, please contact me via email at avelasco@cypressca.org. You may also call me at (714) 229-6720 for additional information. Should your tribe participate in the consultation process, please know that at your request, any sensitive information you share with the City regarding cultural places and/or

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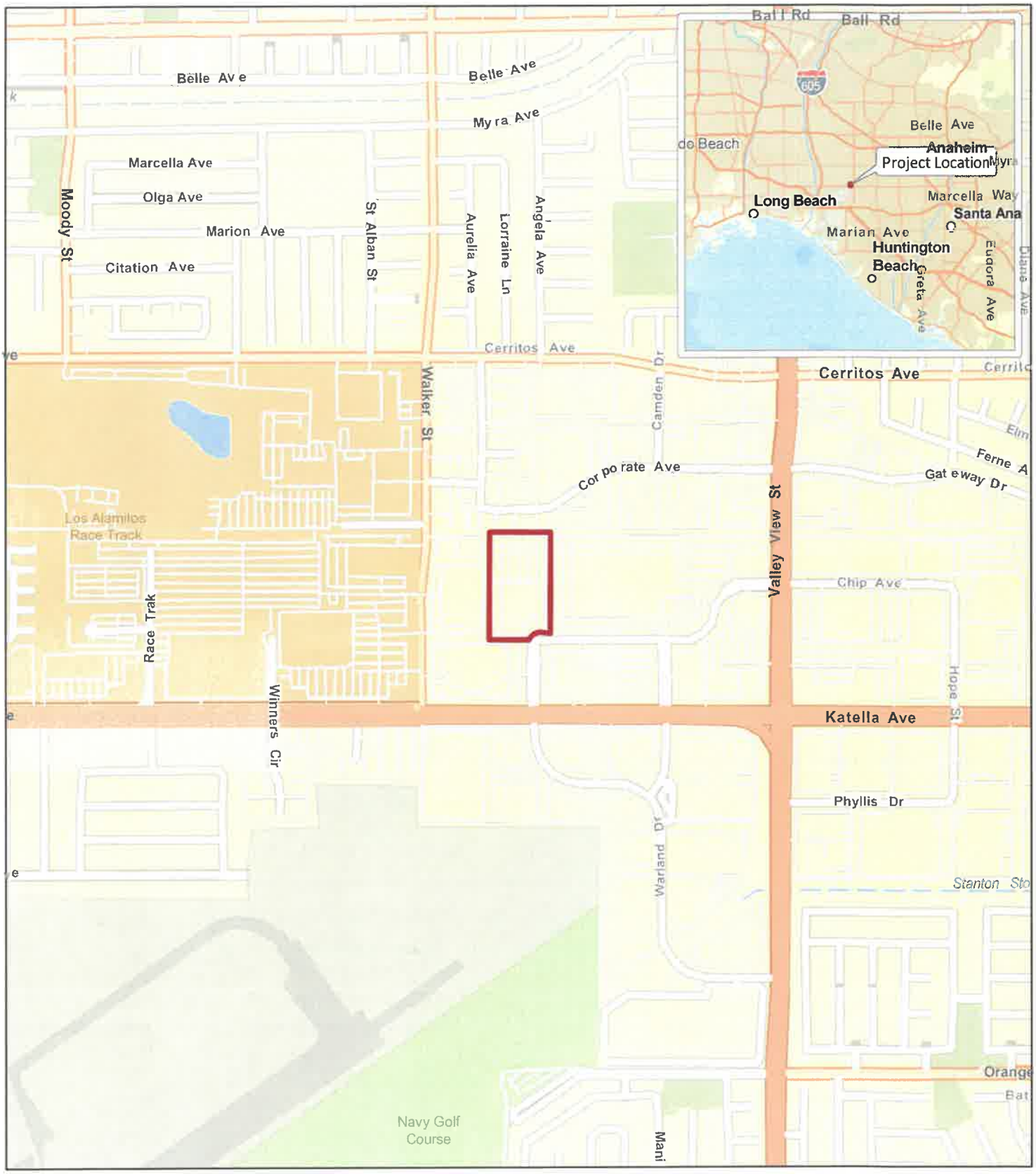
Alicia Velasco
Planning Director

Attachment: Figure 1 –Project Location and Regional Vicinity



LSA

FIGURE 1

SOURCE: Esri (2023)

J:\CCP2201.04\GIS\Pro\Cypress 5665 Plaza Drive Project\Cypress 5665 Plaza Drive Project.aprx (9/28/2023)

Cypress 5665 Plaza Drive Project

Regional Location

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Robert Dorame, Chairperson
Gabrielino Tongva Indians of California Tribal Council
PO Box 490
Bellflower, CA 90707

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Mr. Dorame:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

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Planning Director

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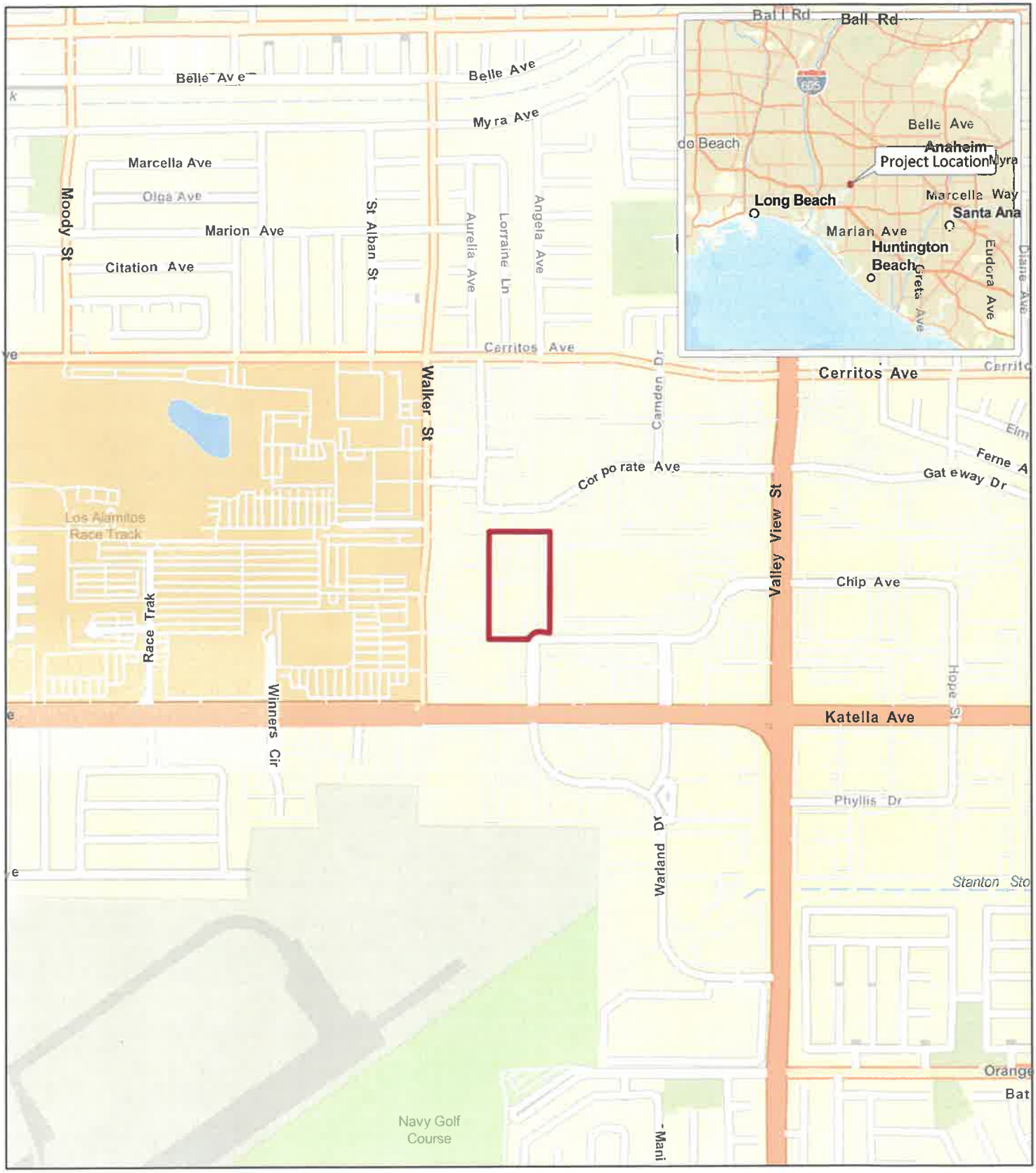

LSA

FIGURE 1

SOURCE: Esri (2023)

J:\CCP2201.04\GIS\Pro\Cypress 5665 Plaza Drive Project\Cypress 5665 Plaza Drive Project.aprx (9/28/2023)

Cypress 5665 Plaza Drive Project

Regional Location

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Sam Dunlap, Cultural Resource Director
Gabrielino Tongva Tribe
PO Box 3919
Seal Beach, CA 90740

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Mr. Dunlap:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

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Alicia Velasco
Planning Director

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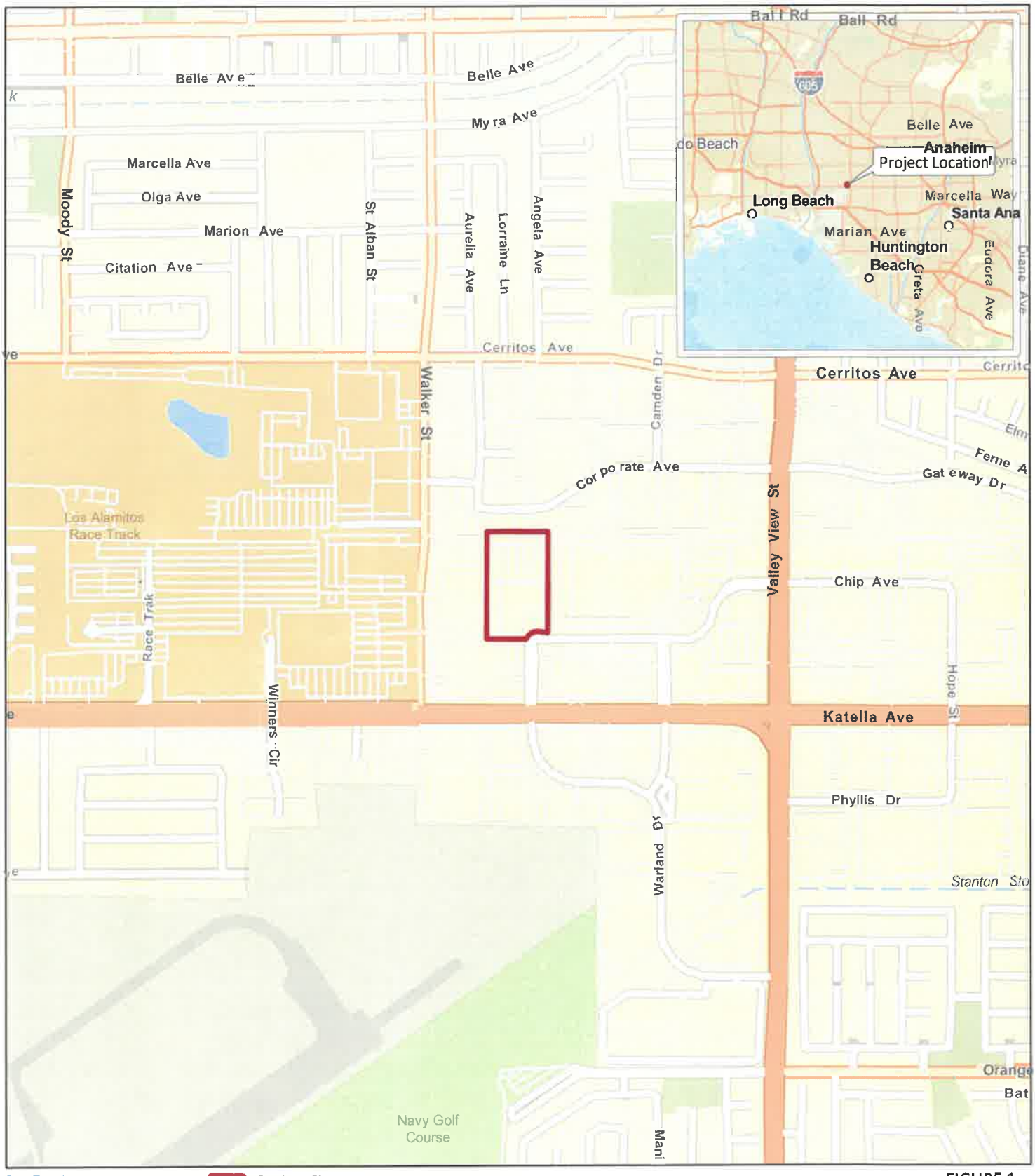

LSA

FIGURE 1

Cypress 5665 Plaza Drive Project

Regional Location

SOURCE: Esri (2023)

J:\CCP2201.04\GIS\Pro\Cypress 5665 Plaza Drive Project\Cypress 5665 Plaza Drive Project.aprx (9/28/2023)

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Charles Alvarez, Chairperson
Gabrielino Tongva Tribe
23454 Vanowen Street
West Hills, CA 91307

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Mr. Alvarez:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

The proposed project includes the demolition of an existing five-story office building and the construction of a new light industrial building that would total approximately 191,394 square feet in size on an approximately 8.53-acre property located at 5665 Plaza Drive (project site) in the southern part of the City of Cypress (refer to Figure 1 for the location of the project site). The proposed project also includes associated site improvements, including landscaping, surface parking, and utility improvements. In addition, the proposed project would require site plan approval.

A recent search of the Sacred Lands Files conducted by the Native American Heritage Commission for the project site was negative for the presence of tribal cultural resources. If you would like to participate in formal tribal consultation for this proposed project pursuant to AB 52 and SB 18, please contact me via email at avelasco@cypressca.org. You may also call me at (714) 229-6720 for additional information. Should your tribe participate in the consultation process, please know that at your request, any sensitive information you share with the City regarding cultural places and/or

sacred sites will be kept strictly confidential and will not be divulged to the public. Thank you for your participation in this process.

Sincerely,

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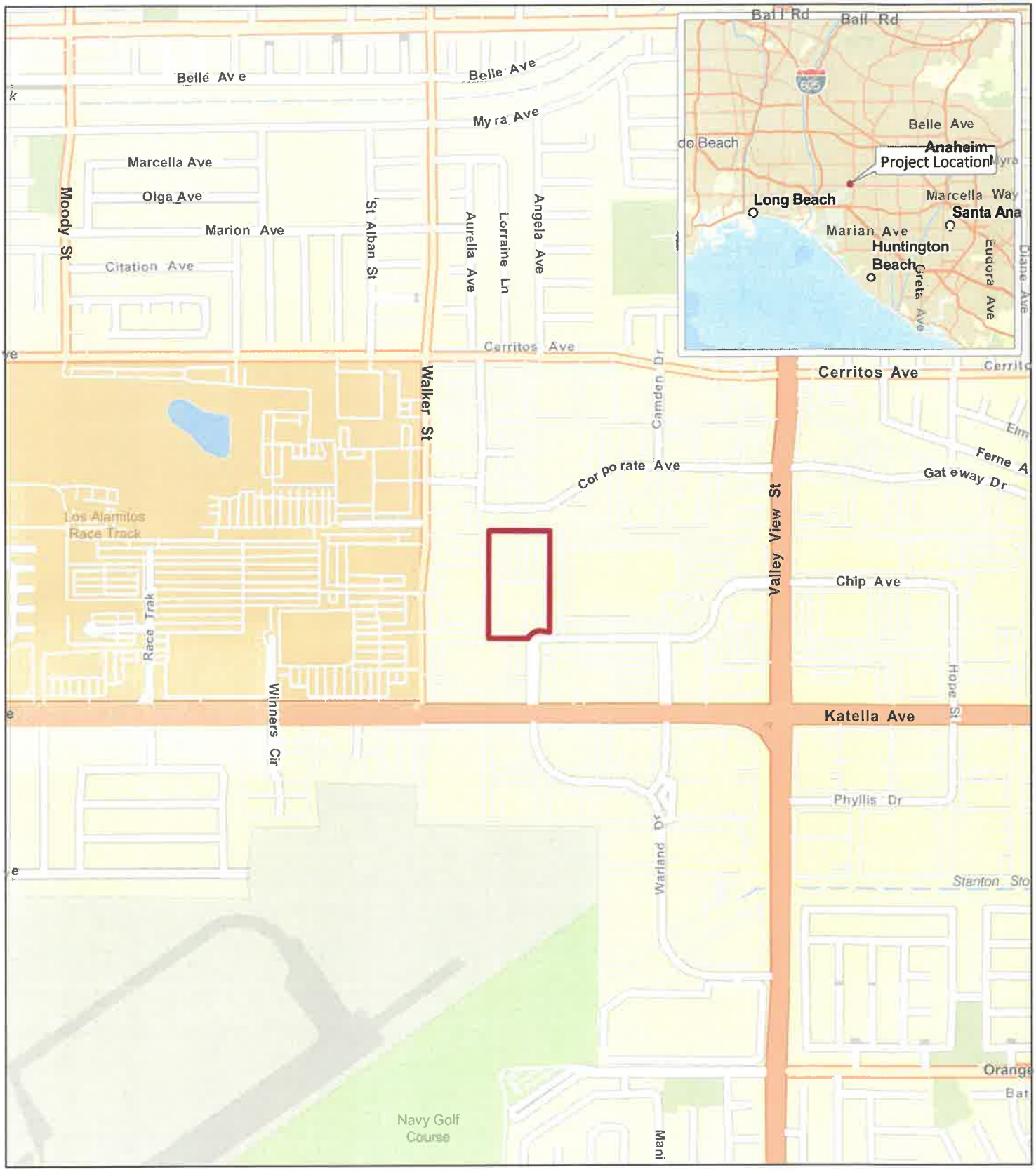
Alicia Velasco
Planning Director

Attachment: Figure 1 –Project Location and Regional Vicinity



LSA

Project Site

FIGURE 1

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FEET

SOURCE: Esri (2023)

J:\CCP2201.04\GIS\Pro\Cypress 5665 Plaza Drive Project\Cypress 5665 Plaza Drive Project.aprx (9/28/2023)

Cypress 5665 Plaza Drive Project

Regional Location

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Joyce Perry, Cultural Resource Director
Juaneno Band of Mission Indians Acjachemen Nation – Belardes
4955 Paseo Segovia
Irvine, CA 92603

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Ms. Perry:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

The proposed project includes the demolition of an existing five-story office building and the construction of a new light industrial building that would total approximately 191,394 square feet in size on an approximately 8.53-acre property located at 5665 Plaza Drive (project site) in the southern part of the City of Cypress (refer to Figure 1 for the location of the project site). The proposed project also includes associated site improvements, including landscaping, surface parking, and utility improvements. In addition, the proposed project would require site plan approval.

A recent search of the Sacred Lands Files conducted by the Native American Heritage Commission for the project site was negative for the presence of tribal cultural resources. If you would like to participate in formal tribal consultation for this proposed project pursuant to AB 52 and SB 18, please contact me via email at avelasco@cypressca.org. You may also call me at (714) 229-6720 for additional information. Should your tribe participate in the consultation process, please know that at your request, any sensitive information you share with the City regarding cultural places and/or

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Alicia Velasco
Planning Director

Attachment: Figure 1 –Project Location and Regional Vicinity

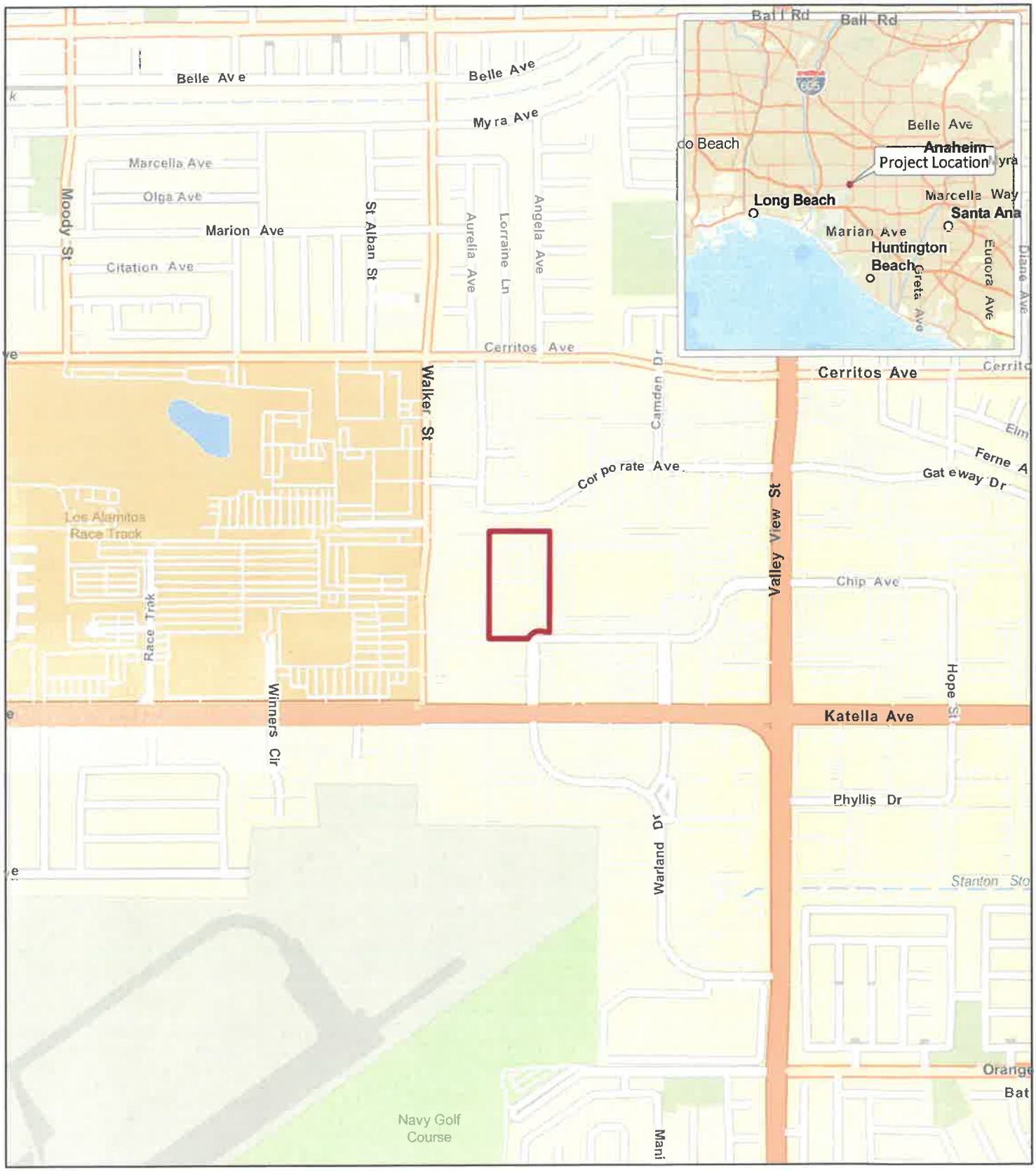

FIGURE 1

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FEET

SOURCE: Esri (2023)

J:\CCP2201.04\GIS\Pro\Cypress 5665 Plaza Drive Project\Cypress 5665 Plaza Drive Project.aprx (9/28/2023)

Cypress 5665 Plaza Drive Project

Regional Location

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Heidi Lucero, Chairperson, THPO
Juaneno Band of Mission Indians Acjachemen Nation – 84A
31411-A La Matanza Street
San Juan Capistrano, CA 92675

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Ms. Lucero:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

The proposed project includes the demolition of an existing five-story office building and the construction of a new light industrial building that would total approximately 191,394 square feet in size on an approximately 8.53-acre property located at 5665 Plaza Drive (project site) in the southern part of the City of Cypress (refer to Figure 1 for the location of the project site). The proposed project also includes associated site improvements, including landscaping, surface parking, and utility improvements. In addition, the proposed project would require site plan approval.

A recent search of the Sacred Lands Files conducted by the Native American Heritage Commission for the project site was negative for the presence of tribal cultural resources. If you would like to participate in formal tribal consultation for this proposed project pursuant to AB 52 and SB 18, please contact me via email at avelasco@cypressca.org. You may also call me at (714) 229-6720 for additional information. Should your tribe participate in the consultation process, please know that at your request, any sensitive information you share with the City regarding cultural places and/or

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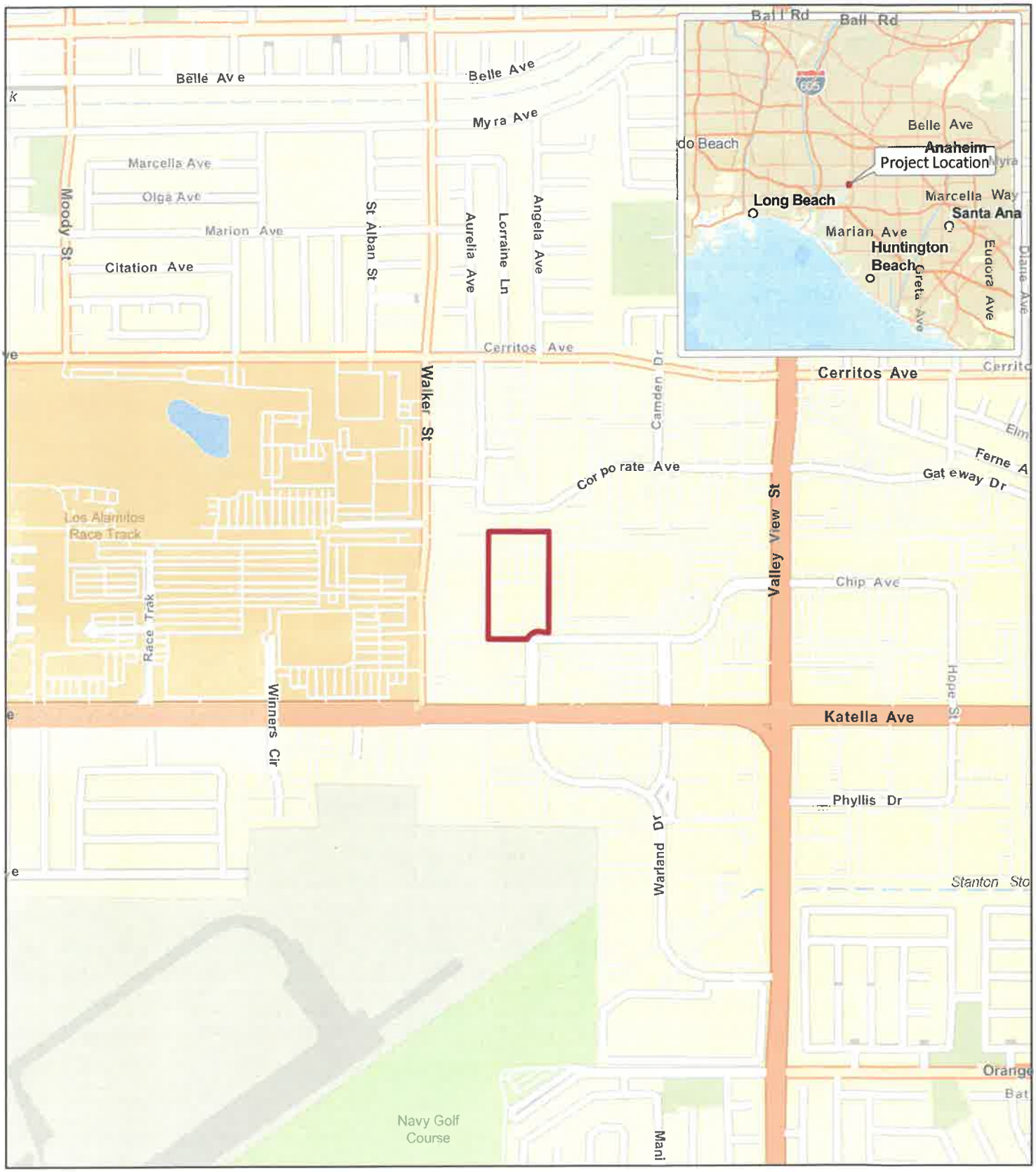
Alicia Velasco
Planning Director

Attachment: Figure 1 –Project Location and Regional Vicinity



LSA

Project Site

FIGURE 1

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FEET

SOURCE: Esri (2023)

J:\CCP2201.04\GIS\Pro\Cypress 5665 Plaza Drive Project\Cypress 5665 Plaza Drive Project.aprx (9/28/2023)

Cypress 5665 Plaza Drive Project

Regional Location

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Gwendolyn Parada, Chairperson
La Posta Band of Diegueno Mission Indians
8 Crestwood Road
Boulevard, CA 91905

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Ms. Parada:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

The proposed project includes the demolition of an existing five-story office building and the construction of a new light industrial building that would total approximately 191,394 square feet in size on an approximately 8.53-acre property located at 5665 Plaza Drive (project site) in the southern part of the City of Cypress (refer to Figure 1 for the location of the project site). The proposed project also includes associated site improvements, including landscaping, surface parking, and utility improvements. In addition, the proposed project would require site plan approval.

A recent search of the Sacred Lands Files conducted by the Native American Heritage Commission for the project site was negative for the presence of tribal cultural resources. If you would like to participate in formal tribal consultation for this proposed project pursuant to AB 52 and SB 18, please contact me via email at avelasco@cypressca.org. You may also call me at (714) 229-6720 for additional information. Should your tribe participate in the consultation process, please know that at your request, any sensitive information you share with the City regarding cultural places and/or

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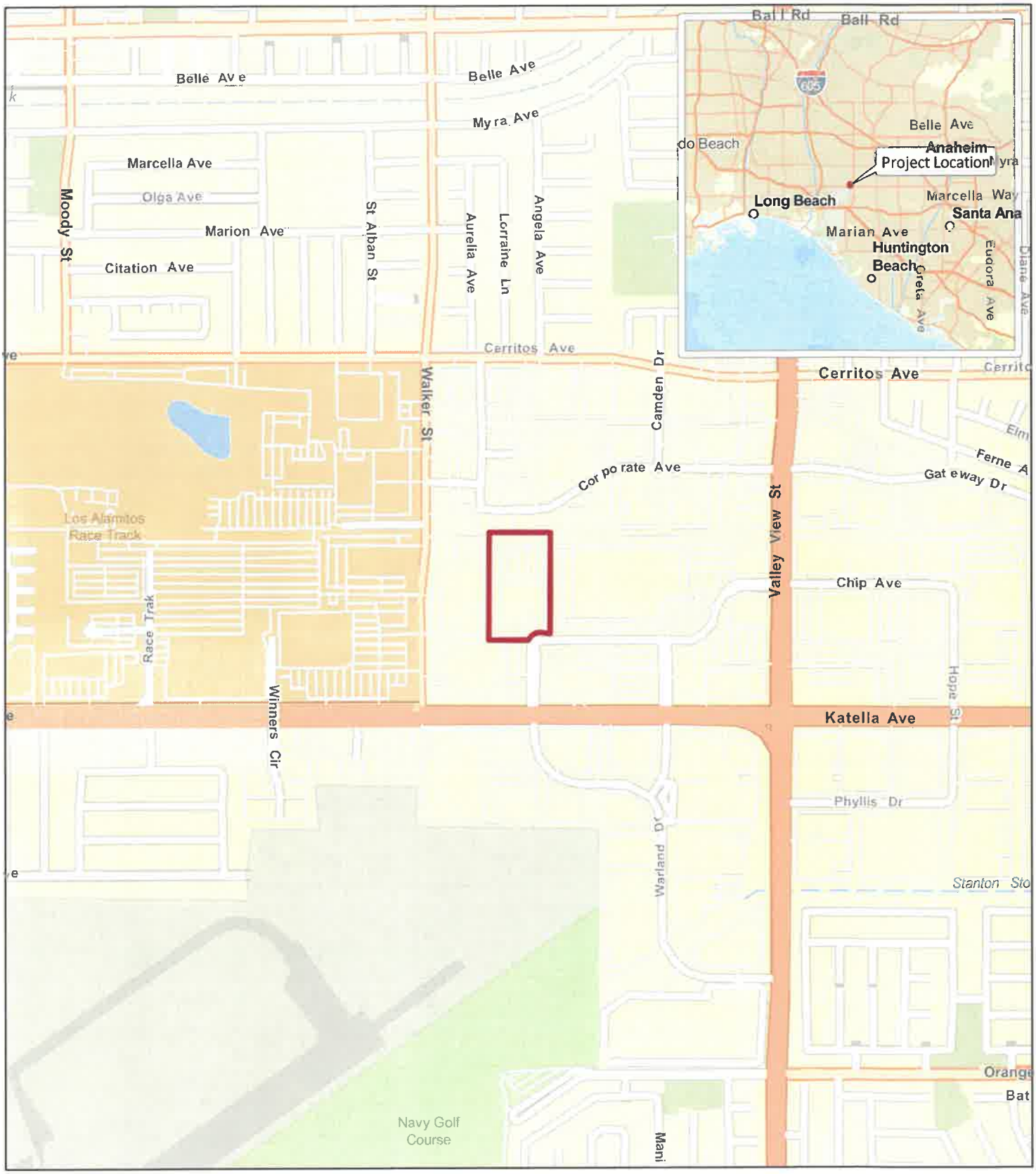
Alicia Velasco
Planning Director

Attachment: Figure 1 –Project Location and Regional Vicinity



LSA

Project Site

FIGURE 1

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SOURCE: Esri (2023)

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Cypress 5665 Plaza Drive Project

Regional Location

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Angela Elliott Santos, Chairperson
Manzanita Band of Kumeyaay Nation
PO Box 1302
Boulevard, CA 91905

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Ms. Santos:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

The proposed project includes the demolition of an existing five-story office building and the construction of a new light industrial building that would total approximately 191,394 square feet in size on an approximately 8.53-acre property located at 5665 Plaza Drive (project site) in the southern part of the City of Cypress (refer to Figure 1 for the location of the project site). The proposed project also includes associated site improvements, including landscaping, surface parking, and utility improvements. In addition, the proposed project would require site plan approval.

A recent search of the Sacred Lands Files conducted by the Native American Heritage Commission for the project site was negative for the presence of tribal cultural resources. If you would like to participate in formal tribal consultation for this proposed project pursuant to AB 52 and SB 18, please contact me via email at avelasco@cypressca.org. You may also call me at (714) 229-6720 for additional information. Should your tribe participate in the consultation process, please know that at your request, any sensitive information you share with the City regarding cultural places and/or

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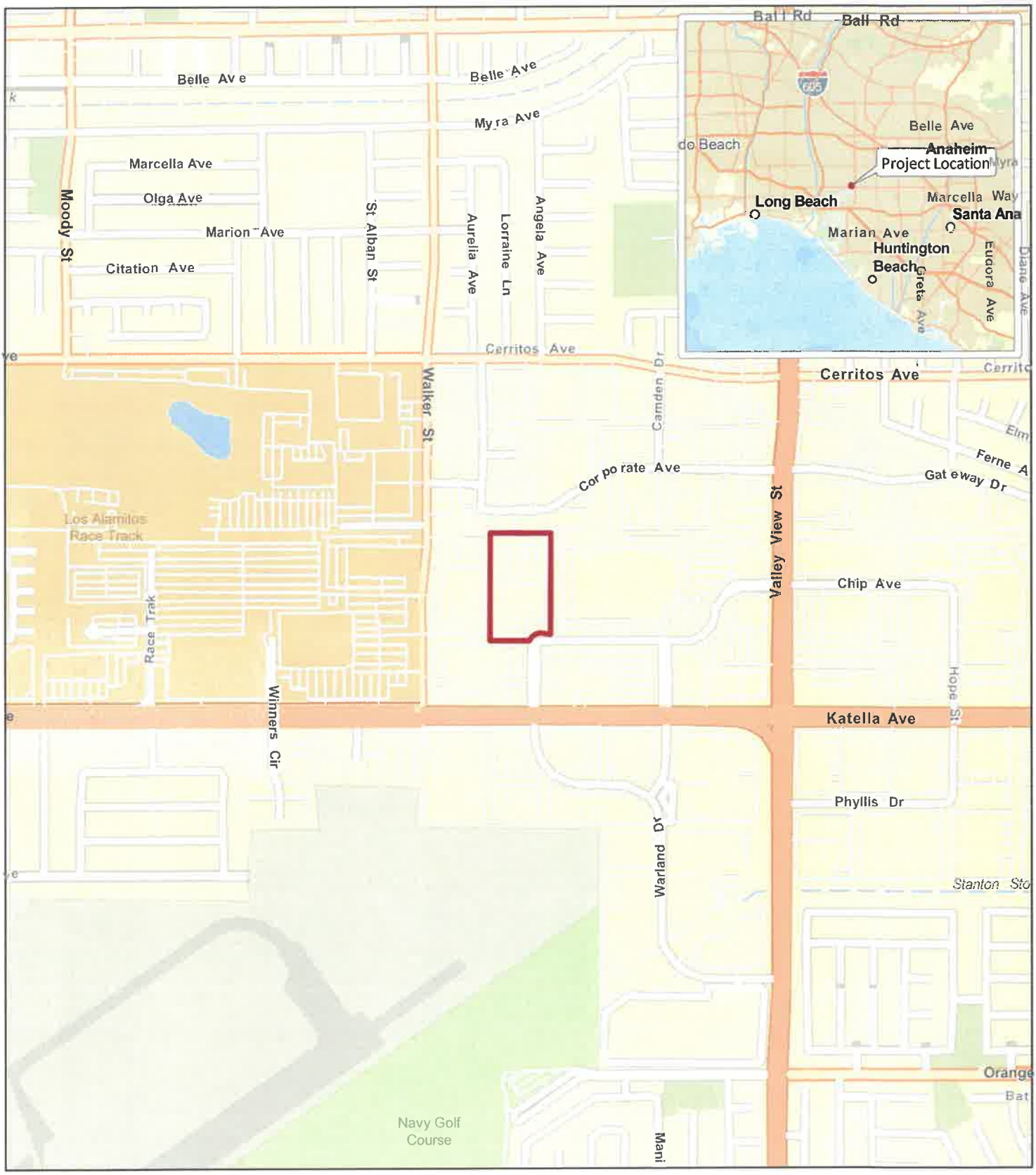
Alicia Velasco
Planning Director

Attachment: Figure 1 –Project Location and Regional Vicinity



LSA

Project Site

FIGURE 1

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FEET

SOURCE: Esri (2023)

J:\CCP2201.04\GIS\Pro\Cypress 5665 Plaza Drive Project\Cypress 5665 Plaza Drive Project.aprx (9/28/2023)

Cypress 5665 Plaza Drive Project

Regional Location

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Michael Linton, Chairperson
Mesa Grande Band of Diegueno Mission Indians
PO Box 270
Santa Ysabel, CA 92070

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Mr. Linton:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

The proposed project includes the demolition of an existing five-story office building and the construction of a new light industrial building that would total approximately 191,394 square feet in size on an approximately 8.53-acre property located at 5665 Plaza Drive (project site) in the southern part of the City of Cypress (refer to Figure 1 for the location of the project site). The proposed project also includes associated site improvements, including landscaping, surface parking, and utility improvements. In addition, the proposed project would require site plan approval.

A recent search of the Sacred Lands Files conducted by the Native American Heritage Commission for the project site was negative for the presence of tribal cultural resources. If you would like to participate in formal tribal consultation for this proposed project pursuant to AB 52 and SB 18, please contact me via email at avelasco@cypressca.org. You may also call me at (714) 229-6720 for additional information. Should your tribe participate in the consultation process, please know that at your request, any sensitive information you share with the City regarding cultural places and/or

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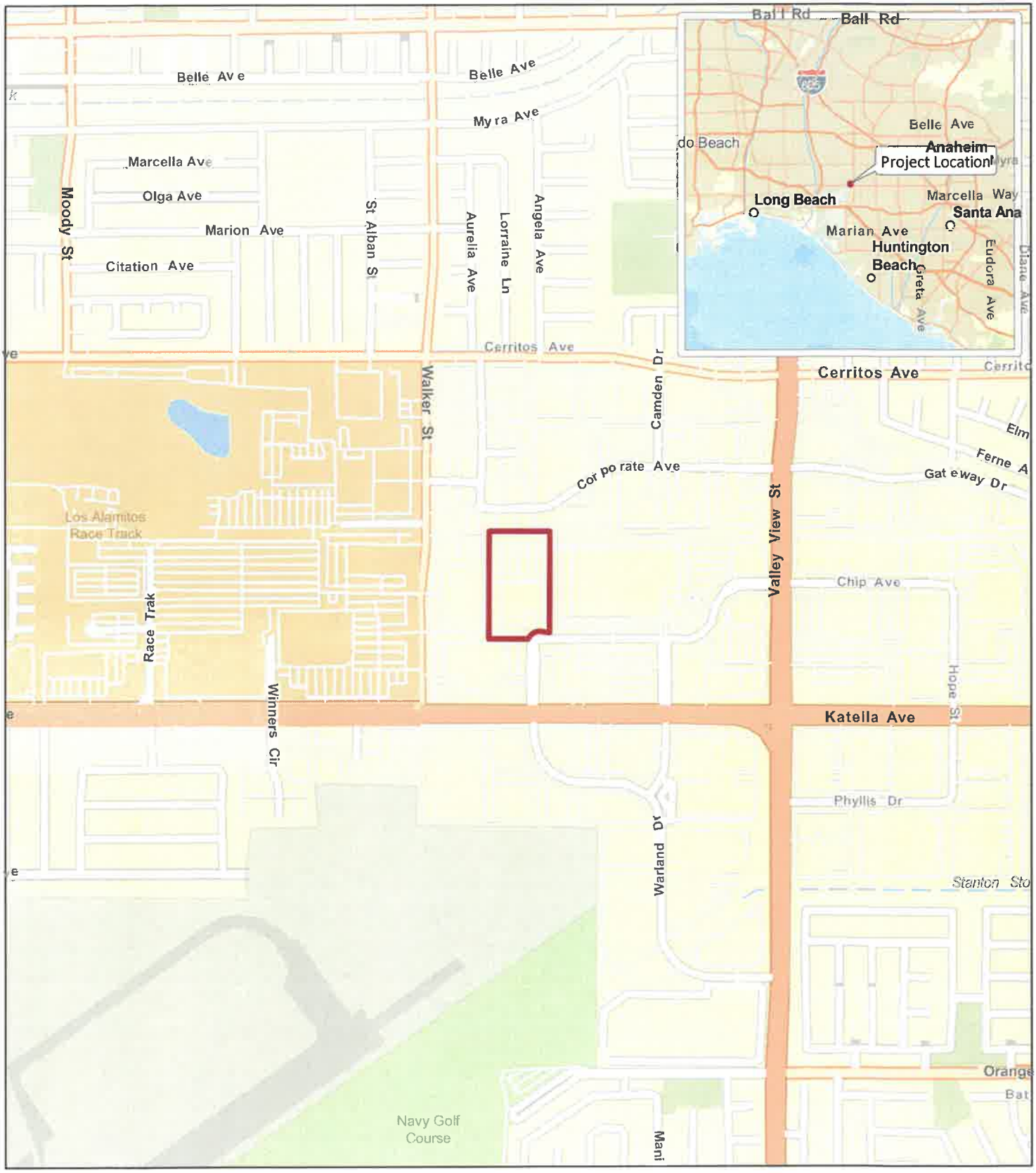
Alicia Velasco
Planning Director

Attachment: Figure 1 –Project Location and Regional Vicinity



LSA

FIGURE 1

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FEET

SOURCE: Esri (2023)

J:\CCP2201.04\GIS\Pro\Cypress 5665 Plaza Drive Project\Cypress 5665 Plaza Drive Project.aprx (9/28/2023)

Cypress 5665 Plaza Drive Project

Regional Location

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Alexis Wallick, Assistant THPO
Pala Band of Mission Indians
PMB 50, 35008 Pala Temecula Road
Pala, CA 92059

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Ms. Wallick:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

The proposed project includes the demolition of an existing five-story office building and the construction of a new light industrial building that would total approximately 191,394 square feet in size on an approximately 8.53-acre property located at 5665 Plaza Drive (project site) in the southern part of the City of Cypress (refer to Figure 1 for the location of the project site). The proposed project also includes associated site improvements, including landscaping, surface parking, and utility improvements. In addition, the proposed project would require site plan approval.

A recent search of the Sacred Lands Files conducted by the Native American Heritage Commission for the project site was negative for the presence of tribal cultural resources. If you would like to participate in formal tribal consultation for this proposed project pursuant to AB 52 and SB 18, please contact me via email at avelasco@cypressca.org. You may also call me at (714) 229-6720 for additional information. Should your tribe participate in the consultation process, please know that at your request, any sensitive information you share with the City regarding cultural places and/or

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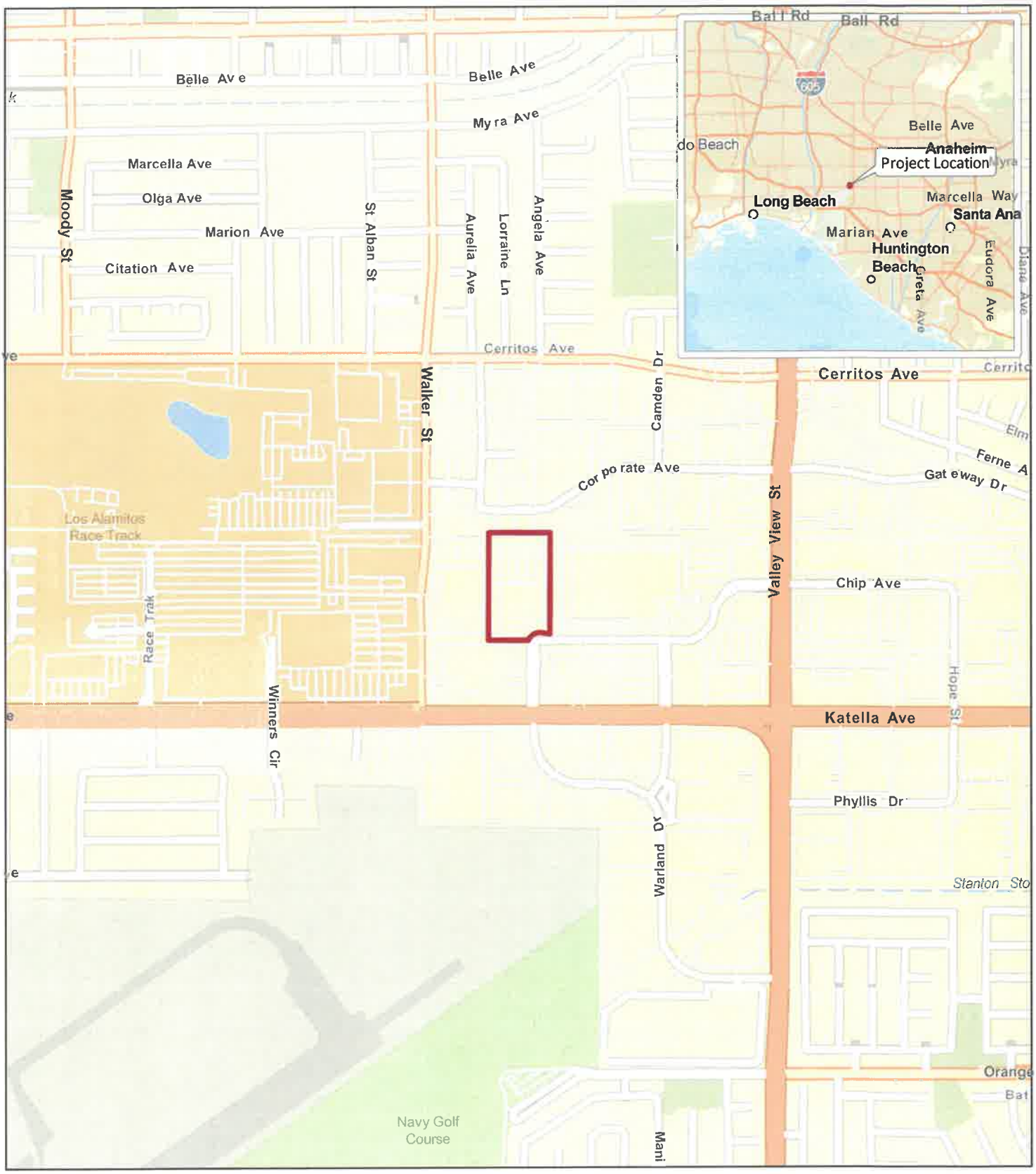
Alicia Velasco
Planning Director

Attachment: Figure 1 –Project Location and Regional Vicinity



LSA

FIGURE 1

SOURCE: Esri (2023)

J:\CCP2201.04\GIS\Pro\Cypress 5665 Plaza Drive Project\Cypress 5665 Plaza Drive Project.aprx (9/28/2023)

Cypress 5665 Plaza Drive Project

Regional Location

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Shasta Gaughen, Tribal Historic Preservation Officer
Pala Band of Mission Indians
PMB 50, 35008 Pala Temecula Road
Pala, CA 92059

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Ms. Gaughen:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

The proposed project includes the demolition of an existing five-story office building and the construction of a new light industrial building that would total approximately 191,394 square feet in size on an approximately 8.53-acre property located at 5665 Plaza Drive (project site) in the southern part of the City of Cypress (refer to Figure 1 for the location of the project site). The proposed project also includes associated site improvements, including landscaping, surface parking, and utility improvements. In addition, the proposed project would require site plan approval.

A recent search of the Sacred Lands Files conducted by the Native American Heritage Commission for the project site was negative for the presence of tribal cultural resources. If you would like to participate in formal tribal consultation for this proposed project pursuant to AB 52 and SB 18, please contact me via email at avelasco@cypressca.org. You may also call me at (714) 229-6720 for additional information. Should your tribe participate in the consultation process, please know that at your request, any sensitive information you share with the City regarding cultural places and/or

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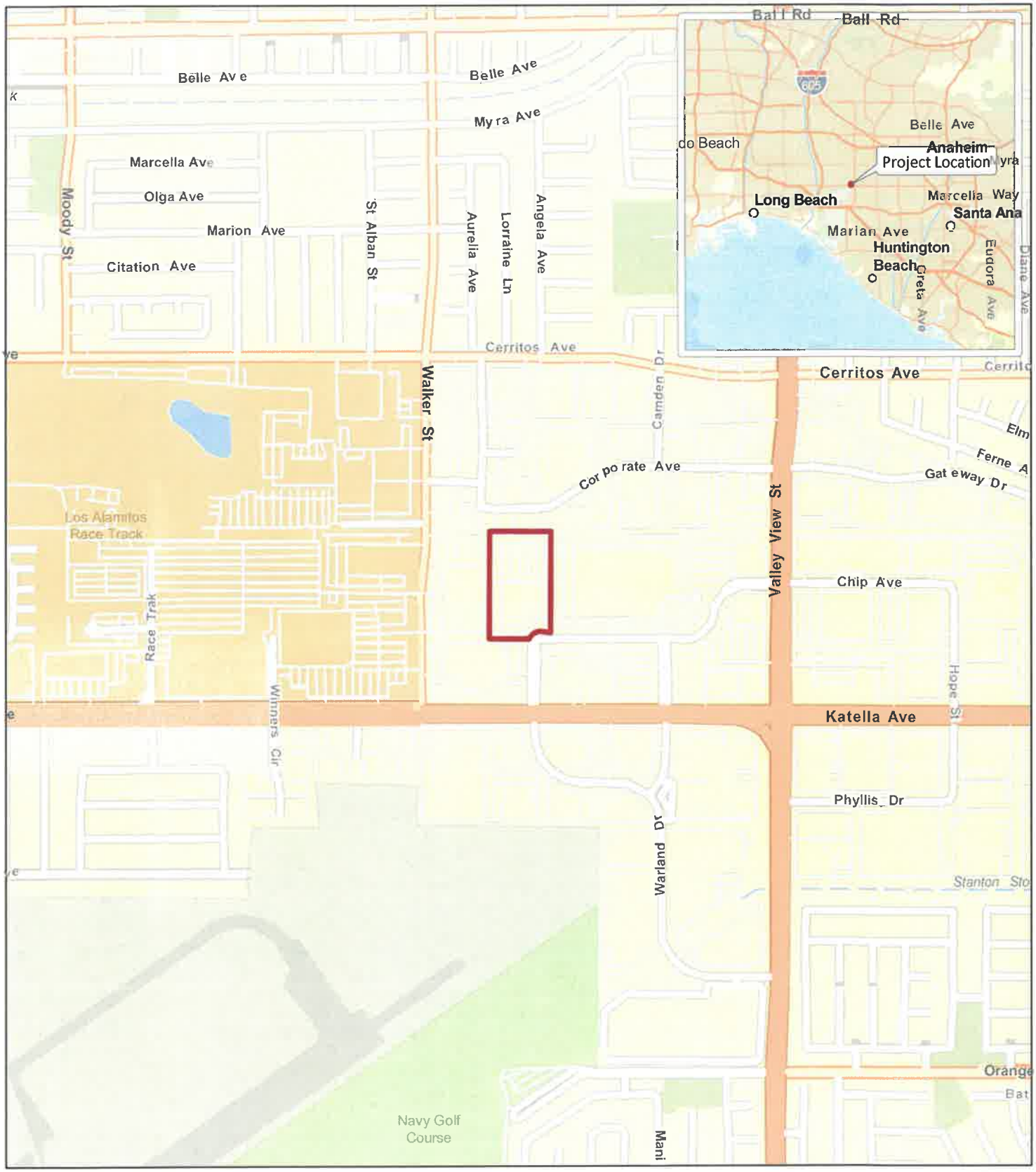
Alicia Velasco
Planning Director

Attachment: Figure 1 –Project Location and Regional Vicinity



LSA

Project Site

FIGURE 1

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FEET

SOURCE: Esri (2023)

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Cypress 5665 Plaza Drive Project

Regional Location

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Lovina Redner, Tribal Chair
Santa Rosa Band of Cahuilla Indians
PO Box 391820
Anza, CA 92539

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Ms. Redner:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

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Alicia Velasco
Planning Director

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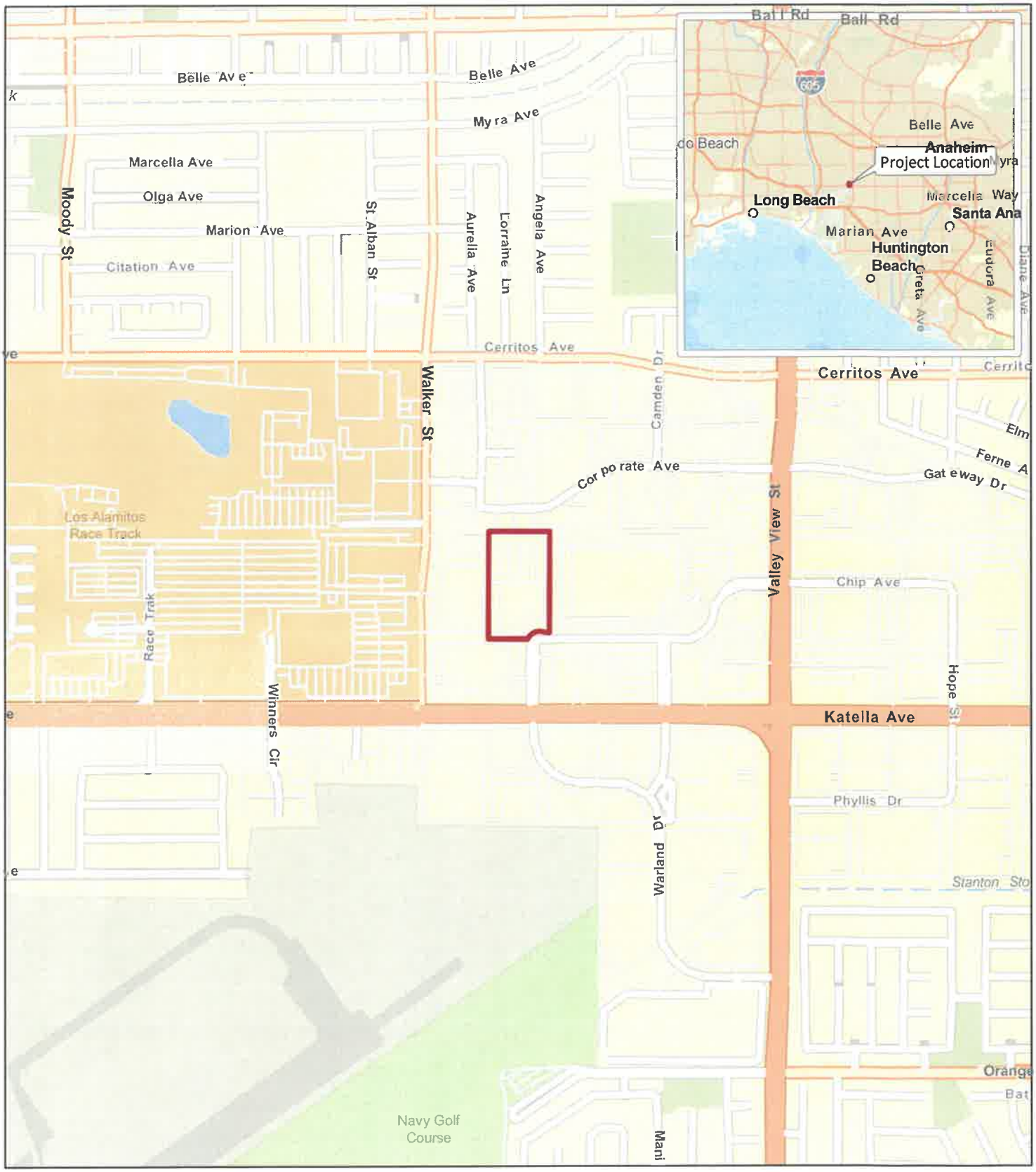

LSA

FIGURE 1

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FEET

SOURCE: Esri (2023)

J:\CCP2201.04\GIS\Pro\Cypress 5665 Plaza Drive Project\Cypress 5665 Plaza Drive Project.aprx (9/28/2023)

Cypress 5665 Plaza Drive Project

Regional Location

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Joseph Ontiveros, Tribal Historic Preservation Officer
Soboba Band of Luiseno Indians
PO Box 487
San Jacinto, CA 92581

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Mr. Ontiveros:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

The proposed project includes the demolition of an existing five-story office building and the construction of a new light industrial building that would total approximately 191,394 square feet in size on an approximately 8.53-acre property located at 5665 Plaza Drive (project site) in the southern part of the City of Cypress (refer to Figure 1 for the location of the project site). The proposed project also includes associated site improvements, including landscaping, surface parking, and utility improvements. In addition, the proposed project would require site plan approval.

A recent search of the Sacred Lands Files conducted by the Native American Heritage Commission for the project site was negative for the presence of tribal cultural resources. If you would like to participate in formal tribal consultation for this proposed project pursuant to AB 52 and SB 18, please contact me via email at avelasco@cypressca.org. You may also call me at (714) 229-6720 for additional information. Should your tribe participate in the consultation process, please know that at your request, any sensitive information you share with the City regarding cultural places and/or

sacred sites will be kept strictly confidential and will not be divulged to the public. Thank you for your participation in this process.

Sincerely,

2023.11.2
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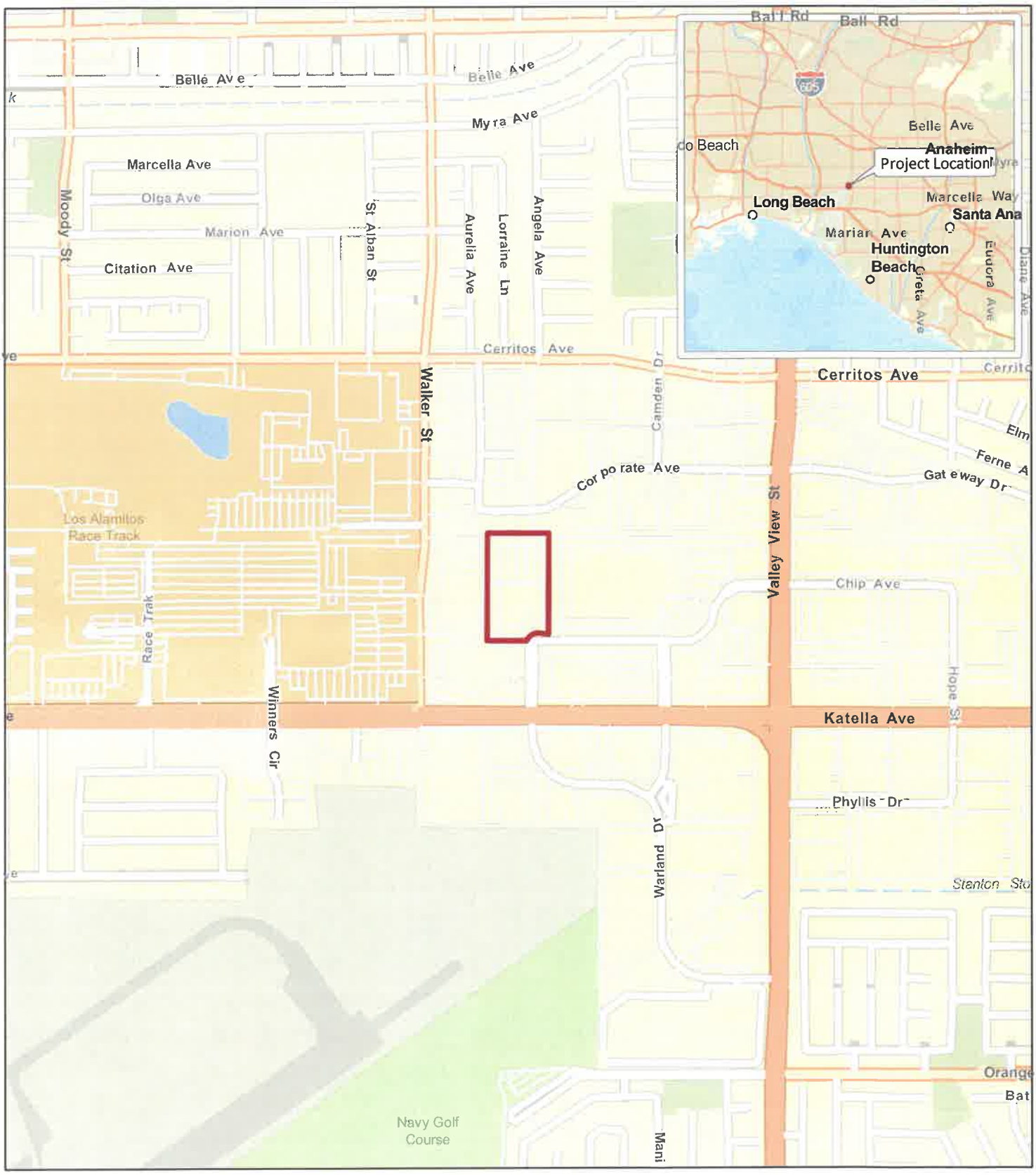
-08'00'

Alicia Velasco
Planning Director

Attachment: Figure 1 –Project Location and Regional Vicinity



LSA

Project Site

FIGURE 1

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Cypress 5665 Plaza Drive Project

Regional Location

CITY of CYPRESS
5275 Orange Avenue, Cypress, California 90630
Phone 714-229-6700 www.cypressca.org

November 20, 2023

Jessica Valdez, Cultural Resource Specialist
Soboba Band of Luiseno Indians
PO Box 487
San Jacinto, CA 92581

Subject: Project Notification and Invitation to Consult under Assembly Bill 52 and Senate Bill 18 for the 5665 Plaza Drive Project, Cypress, Orange County, California

Dear Ms. Valdez:

This letter is to notify you of the proposed 5665 Plaza Drive Project (project) in Cypress, California, and to formally invite you to request consultation with the City of Cypress (City) regarding the project pursuant to Assembly Bill 52 ([AB 52] Gatto 2014). AB 52 requires local governments to invite Native American tribes identified by the Native American Heritage Commission (NAHC) to participate in consultation during the California Environmental Quality Act (CEQA) process for the purpose of preserving or mitigating potential impacts from a project to Native American cultural places. Pursuant to Public Resources Code Section 21080.3.1(d), you have 30 days from receipt of this letter to respond in writing if you would like to consult on this project pursuant to AB 52. SB 18 requires local governments to invite Native American tribes identified by the NAHC to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments. The NAHC has identified your tribe as having traditional lands or cultural places in the City of Cypress. The proposed project involves an amendment to the McDonnell Specific Plan to allow light industrial uses within the eastern portion of Planning Area 1 and an increase in the maximum allowable square footage of Planning Area 1 and is therefore subject to the requirements of SB 18. Per Government Code Section 65352.3(a)(2), you have 90 days from receipt of this letter to respond in writing if you would like to consult on this project, pursuant to SB 18.

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Alicia Velasco
Planning Director

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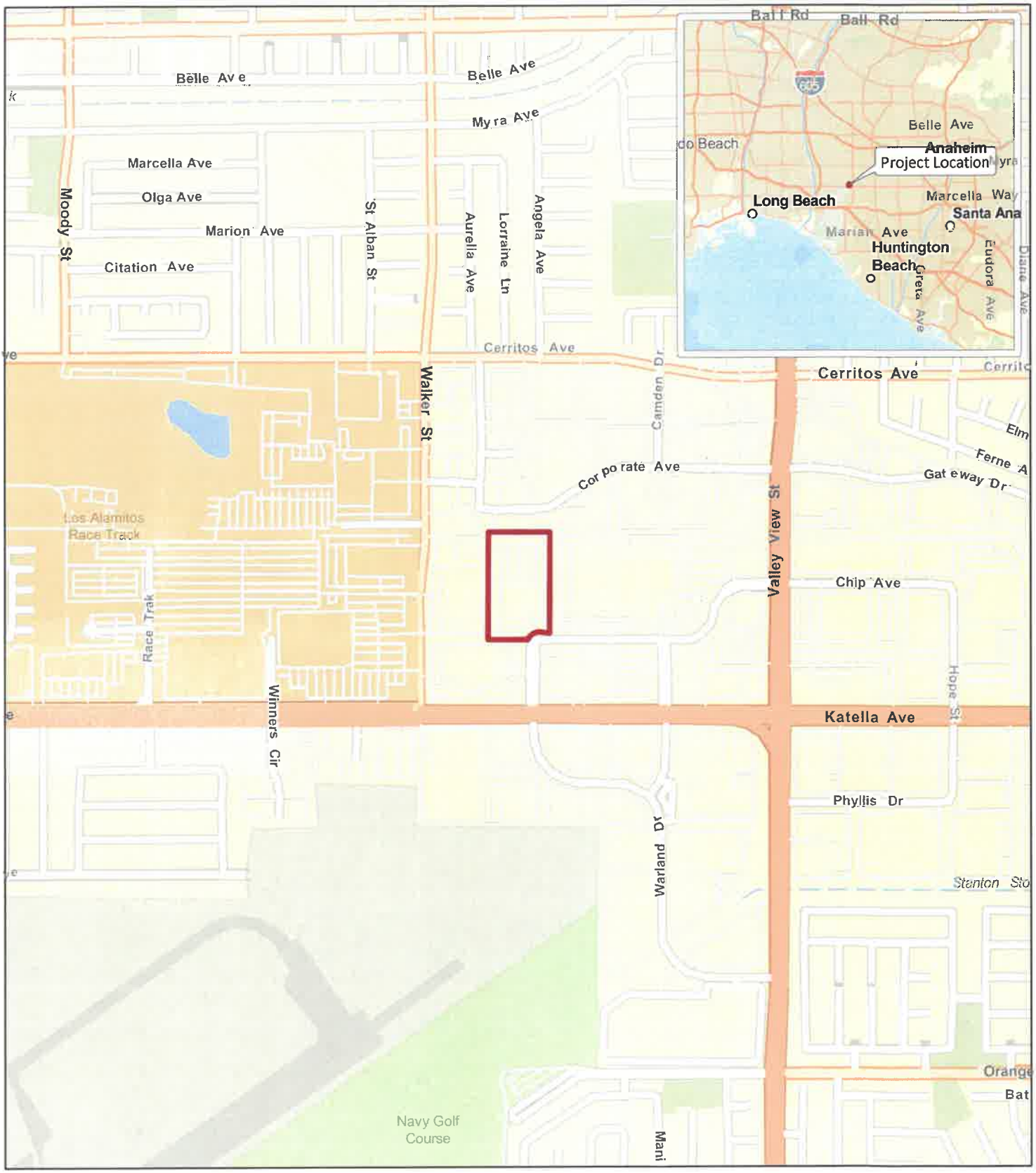

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FIGURE 1

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