

APPENDIX 4.2

AIR QUALITY CALCULATIONS

Tropico 225 Units
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	225.00	Dwelling Unit	2.25	183,683.00	525

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2016
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	1115.33	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Proejct specific parameter from EIR

Construction Phase - Actual construction period per project - 22 to 23 months

Demolition - 1000 cy x 27 = 27.000 cubic feet x 150 lb concrete per cubic foot = 4,050,000 lb/2000 lbs = 2,025 tons

Grading - Project site size

Vehicle Trips - Traffic analysis uses ITE generation rate which there is no Sat or Sun rate.

Woodstoves - Project does not contain fireplaces or woodstoves

Water And Wastewater - Water usage from EIR water supply section

Solid Waste - Solid waste generation from EIR.

Construction Off-road Equipment Mitigation - 15 mph required per Rule 403

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Per City of Glendale Ordinance adopting CALGreen

Water Mitigation -

Waste Mitigation - Per City of Glendale Ordinance

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	60.00
tblConstructionPhase	NumDays	220.00	365.00

tblConstructionPhase	NumDays	6.00	50.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	191.25	0.00
tblFireplaces	NumberNoFireplace	22.50	0.00
tblFireplaces	NumberWood	11.25	0.00
tblGrading	AcresOfGrading	25.00	2.25
tblGrading	MaterialExported	0.00	100.00
tblLandUse	LandUseSquareFeet	225,000.00	183,683.00
tblLandUse	LotAcreage	5.92	2.25
tblLandUse	Population	644.00	525.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	103.50	164.30
tblVehicleTrips	ST_TR	7.16	6.00
tblVehicleTrips	SU_TR	6.07	6.00
tblVehicleTrips	WD_TR	6.59	6.00
tblWater	IndoorWaterUseRate	14,659,655.76	12,736,750.00
tblWater	OutdoorWaterUseRate	9,241,956.90	0.00
tblWoodstoves	NumberCatalytic	11.25	0.00
tblWoodstoves	NumberNoncatalytic	11.25	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	0.4556	3.1029	2.8740	4.1900e-003	0.3016	0.1884	0.4900	0.1204	0.1785	0.2989	0.0000	364.7148	364.7148	0.0620	0.0000	366.0161
2015	0.8757	3.5251	3.7429	6.2700e-003	0.2331	0.2188	0.4519	0.0623	0.2096	0.2718	0.0000	524.2327	524.2327	0.0738	0.0000	525.7821
2016	0.4522	0.0474	0.0712	1.3000e-004	6.5000e-003	3.6900e-003	0.0102	1.7200e-003	3.6900e-003	5.4100e-003	0.0000	10.8085	10.8085	8.8000e-004	0.0000	10.8271
Total	1.7835	6.6754	6.6880	0.0106	0.5412	0.4109	0.9521	0.1844	0.3917	0.5761	0.0000	899.7560	899.7560	0.1366	0.0000	902.6253

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	0.4556	3.1029	2.8740	4.1900e-003	0.1958	0.1884	0.3843	0.0679	0.1785	0.2463	0.0000	364.7145	364.7145	0.0620	0.0000	366.0158
2015	0.8757	3.5251	3.7429	6.2700e-003	0.2331	0.2188	0.4519	0.0623	0.2096	0.2718	0.0000	524.2324	524.2324	0.0738	0.0000	525.7818
2016	0.4522	0.0474	0.0712	1.3000e-004	6.5000e-003	3.6900e-003	0.0102	1.7200e-003	3.6900e-003	5.4100e-003	0.0000	10.8085	10.8085	8.8000e-004	0.0000	10.8271
Total	1.7835	6.6754	6.6880	0.0106	0.4354	0.4109	0.8463	0.1318	0.3917	0.5236	0.0000	899.7555	899.7555	0.1366	0.0000	902.6248

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	19.54	0.00	11.11	28.50	0.00	9.12	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8097	0.0275	2.3527	1.2000e-004		0.0127	0.0127		0.0127	0.0127	0.0000	3.7903	3.7903	3.8600e-003	0.0000	3.8714
Energy	0.0120	0.1029	0.0438	6.6000e-004		8.3200e-003	8.3200e-003		8.3200e-003	8.3200e-003	0.0000	522.2907	522.2907	0.0128	4.3500e-003	523.9081
Mobile	0.9264	2.9316	11.0903	0.0255	1.7479	0.0398	1.7877	0.4677	0.0366	0.5043	0.0000	2,036.8250	2,036.8250	0.0834	0.0000	2,038.5769
Waste						0.0000	0.0000		0.0000	0.0000	33.3514	0.0000	33.3514	1.9710	0.0000	74.7427
Water						0.0000	0.0000		0.0000	0.0000	4.0408	83.9020	87.9427	0.4172	0.0103	99.8820
Total	1.7481	3.0620	13.4867	0.0263	1.7479	0.0608	1.8087	0.4677	0.0576	0.5253	37.3922	2,646.8079	2,684.2001	2.4883	0.0146	2,740.9810

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8097	0.0275	2.3527	1.2000e-004		0.0127	0.0127		0.0127	0.0127	0.0000	3.7903	3.7903	3.8600e-003	0.0000	3.8714
Energy	0.0105	0.0901	0.0383	5.8000e-004		7.2800e-003	7.2800e-003		7.2800e-003	7.2800e-003	0.0000	503.3079	503.3079	0.0124	4.0600e-003	504.8261
Mobile	0.8648	2.4571	9.5603	0.0209	1.4230	0.0328	1.4557	0.3808	0.0301	0.4109	0.0000	1,667.577 1	1,667.577 1	0.0692	0.0000	1,669.030 1
Waste						0.0000	0.0000		0.0000	0.0000	16.6757	0.0000	16.6757	0.9855	0.0000	37.3713
Water						0.0000	0.0000		0.0000	0.0000	3.2326	67.1216	70.3542	0.3337	8.1900e-003	79.9004
Total	1.6850	2.5748	11.9514	0.0216	1.4230	0.0527	1.4757	0.3808	0.0501	0.4309	19.9083	2,241.796 8	2,261.705 1	1.4046	0.0123	2,294.999 3

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.61	15.91	11.38	17.87	18.59	13.26	18.41	18.59	13.02	17.98	46.76	15.30	15.74	43.55	16.10	16.27

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2014	4/28/2014	5	20	
2	Grading	Grading	4/29/2014	7/7/2014	5	50	
3	Building Construction	Building Construction	7/8/2014	11/30/2015	5	365	
4	Architectural Coating	Architectural Coating	12/1/2015	2/22/2016	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.25

Acres of Paving: 0

Residential Indoor: 371,958; Residential Outdoor: 123,986; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	200.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	10.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	162.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0217	0.0000	0.0217	3.2800e-003	0.0000	3.2800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0316	0.3048	0.2219	2.5000e-004		0.0194	0.0194		0.0182	0.0182	0.0000	22.9494	22.9494	5.8300e-003	0.0000	23.0718
Total	0.0316	0.3048	0.2219	2.5000e-004	0.0217	0.0194	0.0411	3.2800e-003	0.0182	0.0215	0.0000	22.9494	22.9494	5.8300e-003	0.0000	23.0718

3.2 Demolition - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.3000e-003	0.0374	0.0254	7.0000e-005	1.7100e-003	7.0000e-004	2.4100e-003	4.7000e-004	6.4000e-004	1.1100e-003	0.0000	6.8917	6.8917	6.0000e-005	0.0000	6.8929
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	9.5000e-004	9.8200e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.4302	1.4302	9.0000e-005	0.0000	1.4320
Total	2.9500e-003	0.0383	0.0352	9.0000e-005	3.1400e-003	7.1000e-004	3.8500e-003	8.5000e-004	6.5000e-004	1.5000e-003	0.0000	8.3219	8.3219	1.5000e-004	0.0000	8.3249

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.4500e-003	0.0000	8.4500e-003	1.2800e-003	0.0000	1.2800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0316	0.3048	0.2219	2.5000e-004		0.0194	0.0194		0.0182	0.0182	0.0000	22.9494	22.9494	5.8300e-003	0.0000	23.0717
Total	0.0316	0.3048	0.2219	2.5000e-004	8.4500e-003	0.0194	0.0278	1.2800e-003	0.0182	0.0195	0.0000	22.9494	22.9494	5.8300e-003	0.0000	23.0717

3.2 Demolition - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.3000e-003	0.0374	0.0254	7.0000e-005	1.7100e-003	7.0000e-004	2.4100e-003	4.7000e-004	6.4000e-004	1.1100e-003	0.0000	6.8917	6.8917	6.0000e-005	0.0000	6.8929
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	9.5000e-004	9.8200e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.4302	1.4302	9.0000e-005	0.0000	1.4320
Total	2.9500e-003	0.0383	0.0352	9.0000e-005	3.1400e-003	7.1000e-004	3.8500e-003	8.5000e-004	6.5000e-004	1.5000e-003	0.0000	8.3219	8.3219	1.5000e-004	0.0000	8.3249

3.3 Grading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1518	0.0000	0.1518	0.0829	0.0000	0.0829	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0746	0.7907	0.5075	5.1000e-004		0.0444	0.0444		0.0409	0.0409	0.0000	49.6088	49.6088	0.0147	0.0000	49.9166
Total	0.0746	0.7907	0.5075	5.1000e-004	0.1518	0.0444	0.1962	0.0829	0.0409	0.1237	0.0000	49.6088	49.6088	0.0147	0.0000	49.9166

3.3 Grading - 2014**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	1.8700e-003	1.2700e-003	0.0000	9.0000e-005	3.0000e-005	1.2000e-004	2.0000e-005	3.0000e-005	6.0000e-005	0.0000	0.3446	0.3446	0.0000	0.0000	0.3446
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2500e-003	1.8200e-003	0.0189	3.0000e-005	2.7400e-003	3.0000e-005	2.7700e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.7504	2.7504	1.6000e-004	0.0000	2.7538
Total	1.3700e-003	3.6900e-003	0.0202	3.0000e-005	2.8300e-003	6.0000e-005	2.8900e-003	7.5000e-004	5.0000e-005	8.1000e-004	0.0000	3.0949	3.0949	1.6000e-004	0.0000	3.0985

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0592	0.0000	0.0592	0.0323	0.0000	0.0323	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0746	0.7907	0.5075	5.1000e-004		0.0444	0.0444		0.0409	0.0409	0.0000	49.6087	49.6087	0.0147	0.0000	49.9166
Total	0.0746	0.7907	0.5075	5.1000e-004	0.0592	0.0444	0.1036	0.0323	0.0409	0.0732	0.0000	49.6087	49.6087	0.0147	0.0000	49.9166

3.3 Grading - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	1.8700e-003	1.2700e-003	0.0000	9.0000e-005	3.0000e-005	1.2000e-004	2.0000e-005	3.0000e-005	6.0000e-005	0.0000	0.3446	0.3446	0.0000	0.0000	0.3446
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2500e-003	1.8200e-003	0.0189	3.0000e-005	2.7400e-003	3.0000e-005	2.7700e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.7504	2.7504	1.6000e-004	0.0000	2.7538
Total	1.3700e-003	3.6900e-003	0.0202	3.0000e-005	2.8300e-003	6.0000e-005	2.8900e-003	7.5000e-004	5.0000e-005	8.1000e-004	0.0000	3.0949	3.0949	1.6000e-004	0.0000	3.0985

3.4 Building Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2761	1.7116	1.1035	1.5800e-003		0.1194	0.1194		0.1146	0.1146	0.0000	136.8547	136.8547	0.0341	0.0000	137.5715
Total	0.2761	1.7116	1.1035	1.5800e-003		0.1194	0.1194		0.1146	0.1146	0.0000	136.8547	136.8547	0.0341	0.0000	137.5715

3.4 Building Construction - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0178	0.1788	0.2086	3.3000e-004	9.3700e-003	3.4100e-003	0.0128	2.6700e-003	3.1300e-003	5.8100e-003	0.0000	30.7134	30.7134	2.7000e-004	0.0000	0.0000	30.7192
Worker	0.0513	0.0750	0.7771	1.3900e-003	0.1129	1.0800e-003	0.1140	0.0300	9.9000e-004	0.0310	0.0000	113.1717	113.1717	6.7600e-003	0.0000	0.0000	113.3137
Total	0.0691	0.2539	0.9857	1.7200e-003	0.1222	4.4900e-003	0.1267	0.0326	4.1200e-003	0.0368	0.0000	143.8851	143.8851	7.0300e-003	0.0000	0.0000	144.0329

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2761	1.7116	1.1035	1.5800e-003		0.1194	0.1194		0.1146	0.1146	0.0000	136.8545	136.8545	0.0341	0.0000	137.5713
Total	0.2761	1.7116	1.1035	1.5800e-003		0.1194	0.1194		0.1146	0.1146	0.0000	136.8545	136.8545	0.0341	0.0000	137.5713

3.4 Building Construction - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0178	0.1788	0.2086	3.3000e-004	9.3700e-003	3.4100e-003	0.0128	2.6700e-003	3.1300e-003	5.8100e-003	0.0000	30.7134	30.7134	2.7000e-004	0.0000	30.7192
Worker	0.0513	0.0750	0.7771	1.3900e-003	0.1129	1.0800e-003	0.1140	0.0300	9.9000e-004	0.0310	0.0000	113.1717	113.1717	6.7600e-003	0.0000	113.3137
Total	0.0691	0.2539	0.9857	1.7200e-003	0.1222	4.4900e-003	0.1267	0.0326	4.1200e-003	0.0368	0.0000	143.8851	143.8851	7.0300e-003	0.0000	144.0329

3.4 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4792	3.0748	2.0285	2.9600e-003		0.2094	0.2094		0.2008	0.2008	0.0000	255.2142	255.2142	0.0611	0.0000	256.4978
Total	0.4792	3.0748	2.0285	2.9600e-003		0.2094	0.2094		0.2008	0.2008	0.0000	255.2142	255.2142	0.0611	0.0000	256.4978

3.4 Building Construction - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0287	0.2922	0.3575	6.2000e-004	0.0176	4.9100e-003	0.0225	5.0100e-003	4.5100e-003	9.5300e-003	0.0000	56.9184	56.9184	4.5000e-004	0.0000	0.0000	56.9279
Worker	0.0861	0.1262	1.3099	2.6000e-003	0.2115	1.9000e-003	0.2134	0.0562	1.7400e-003	0.0579	0.0000	205.2459	205.2459	0.0116	0.0000	0.0000	205.4895
Total	0.1148	0.4183	1.6674	3.2200e-003	0.2291	6.8100e-003	0.2359	0.0612	6.2500e-003	0.0674	0.0000	262.1643	262.1643	0.0121	0.0000	0.0000	262.4174

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.4792	3.0748	2.0285	2.9600e-003		0.2094	0.2094		0.2008	0.2008	0.0000	255.2139	255.2139	0.0611	0.0000	0.0000	256.4975
Total	0.4792	3.0748	2.0285	2.9600e-003		0.2094	0.2094		0.2008	0.2008	0.0000	255.2139	255.2139	0.0611	0.0000	0.0000	256.4975

3.4 Building Construction - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0287	0.2922	0.3575	6.2000e-004	0.0176	4.9100e-003	0.0225	5.0100e-003	4.5100e-003	9.5300e-003	0.0000	56.9184	56.9184	4.5000e-004	0.0000	56.9279
Worker	0.0861	0.1262	1.3099	2.6000e-003	0.2115	1.9000e-003	0.2134	0.0562	1.7400e-003	0.0579	0.0000	205.2459	205.2459	0.0116	0.0000	205.4895
Total	0.1148	0.4183	1.6674	3.2200e-003	0.2291	6.8100e-003	0.2359	0.0612	6.2500e-003	0.0674	0.0000	262.1643	262.1643	0.0121	0.0000	262.4174

3.5 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2754					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6800e-003	0.0296	0.0219	3.0000e-005		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003	0.0000	2.9362	2.9362	3.8000e-004	0.0000	2.9443
Total	0.2801	0.0296	0.0219	3.0000e-005		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003	0.0000	2.9362	2.9362	3.8000e-004	0.0000	2.9443

3.5 Architectural Coating - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6400e-003	2.4100e-003	0.0250	5.0000e-005	4.0400e-003	4.0000e-005	4.0700e-003	1.0700e-003	3.0000e-005	1.1100e-003	0.0000	3.9180	3.9180	2.2000e-004	0.0000	3.9226	
Total	1.6400e-003	2.4100e-003	0.0250	5.0000e-005	4.0400e-003	4.0000e-005	4.0700e-003	1.0700e-003	3.0000e-005	1.1100e-003	0.0000	3.9180	3.9180	2.2000e-004	0.0000	3.9226	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2754					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6800e-003	0.0296	0.0219	3.0000e-005		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003	0.0000	2.9362	2.9362	3.8000e-004	0.0000	2.9443
Total	0.2801	0.0296	0.0219	3.0000e-005		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003	0.0000	2.9362	2.9362	3.8000e-004	0.0000	2.9443

3.5 Architectural Coating - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6400e-003	2.4100e-003	0.0250	5.0000e-005	4.0400e-003	4.0000e-005	4.0700e-003	1.0700e-003	3.0000e-005	1.1100e-003	0.0000	3.9180	3.9180	2.2000e-004	0.0000	3.9226
Total	1.6400e-003	2.4100e-003	0.0250	5.0000e-005	4.0400e-003	4.0000e-005	4.0700e-003	1.0700e-003	3.0000e-005	1.1100e-003	0.0000	3.9180	3.9180	2.2000e-004	0.0000	3.9226

3.5 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4430					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8200e-003	0.0439	0.0349	5.0000e-005		3.6400e-003	3.6400e-003		3.6400e-003	3.6400e-003	0.0000	4.7235	4.7235	5.6000e-004	0.0000	4.7352
Total	0.4498	0.0439	0.0349	5.0000e-005		3.6400e-003	3.6400e-003		3.6400e-003	3.6400e-003	0.0000	4.7235	4.7235	5.6000e-004	0.0000	4.7352

3.5 Architectural Coating - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3800e-003	3.5000e-003	0.0363	8.0000e-005	6.5000e-003	6.0000e-005	6.5500e-003	1.7200e-003	5.0000e-005	1.7800e-003	0.0000	6.0850	6.0850	3.3000e-004	0.0000	6.0919	
Total	2.3800e-003	3.5000e-003	0.0363	8.0000e-005	6.5000e-003	6.0000e-005	6.5500e-003	1.7200e-003	5.0000e-005	1.7800e-003	0.0000	6.0850	6.0850	3.3000e-004	0.0000	6.0919	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4430					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8200e-003	0.0439	0.0349	5.0000e-005		3.6400e-003	3.6400e-003		3.6400e-003	3.6400e-003	0.0000	4.7235	4.7235	5.6000e-004	0.0000	4.7352
Total	0.4498	0.0439	0.0349	5.0000e-005		3.6400e-003	3.6400e-003		3.6400e-003	3.6400e-003	0.0000	4.7235	4.7235	5.6000e-004	0.0000	4.7352

3.5 Architectural Coating - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3800e-003	3.5000e-003	0.0363	8.0000e-005	6.5000e-003	6.0000e-005	6.5500e-003	1.7200e-003	5.0000e-005	1.7800e-003	0.0000	6.0850	6.0850	3.3000e-004	0.0000	6.0919
Total	2.3800e-003	3.5000e-003	0.0363	8.0000e-005	6.5000e-003	6.0000e-005	6.5500e-003	1.7200e-003	5.0000e-005	1.7800e-003	0.0000	6.0850	6.0850	3.3000e-004	0.0000	6.0919

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8648	2.4571	9.5603	0.0209	1.4230	0.0328	1.4557	0.3808	0.0301	0.4109	0.0000	1,667.5771	1,667.5771	0.0692	0.0000	1,669.0301
Unmitigated	0.9264	2.9316	11.0903	0.0255	1.7479	0.0398	1.7877	0.4677	0.0366	0.5043	0.0000	2,036.8250	2,036.8250	0.0834	0.0000	2,038.5769

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,350.00	1,350.00	1350.00	4,613,155	3,755,638
Total	1,350.00	1,350.00	1,350.00	4,613,155	3,755,638

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513363	0.060352	0.180146	0.139338	0.042155	0.006672	0.015739	0.030749	0.001928	0.002503	0.004351	0.000593	0.002111

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	398.9650	398.9650	0.0104	2.1500e-003	399.8482
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	403.1766	403.1766	0.0105	2.1700e-003	404.0691
NaturalGas Mitigated	0.0105	0.0901	0.0383	5.8000e-004		7.2800e-003	7.2800e-003		7.2800e-003	7.2800e-003	0.0000	104.3429	104.3429	2.0000e-003	1.9100e-003	104.9779
NaturalGas Unmitigated	0.0120	0.1029	0.0438	6.6000e-004		8.3200e-003	8.3200e-003		8.3200e-003	8.3200e-003	0.0000	119.1141	119.1141	2.2800e-003	2.1800e-003	119.8391

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.23211e+006	0.0120	0.1029	0.0438	6.6000e-004		8.3200e-003	8.3200e-003		8.3200e-003	8.3200e-003	0.0000	119.1141	119.1141	2.2800e-003	2.1800e-003	119.8391
Total		0.0120	0.1029	0.0438	6.6000e-004		8.3200e-003	8.3200e-003		8.3200e-003	8.3200e-003	0.0000	119.1141	119.1141	2.2800e-003	2.1800e-003	119.8391

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.95531e+006	0.0105	0.0901	0.0383	5.8000e-004		7.2800e-003	7.2800e-003		7.2800e-003	7.2800e-003	0.0000	104.3429	104.3429	2.0000e-003	1.9100e-003	104.9779
Total		0.0105	0.0901	0.0383	5.8000e-004		7.2800e-003	7.2800e-003		7.2800e-003	7.2800e-003	0.0000	104.3429	104.3429	2.0000e-003	1.9100e-003	104.9779

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	796941	403.1766	0.0105	2.1700e-003	404.0691
Total		403.1766	0.0105	2.1700e-003	404.0691

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	788616	398.9650	0.0104	2.1500e-003	399.8482
Total		398.9650	0.0104	2.1500e-003	399.8482

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8097	0.0275	2.3527	1.2000e-004		0.0127	0.0127		0.0127	0.0127	0.0000	3.7903	3.7903	3.8600e-003	0.0000	3.8714
Unmitigated	0.8097	0.0275	2.3527	1.2000e-004		0.0127	0.0127		0.0127	0.0127	0.0000	3.7903	3.7903	3.8600e-003	0.0000	3.8714

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6637					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0741	0.0275	2.3527	1.2000e-004		0.0127	0.0127		0.0127	0.0127	0.0000	3.7903	3.7903	3.8600e-003	0.0000	3.8714
Total	0.8097	0.0275	2.3527	1.2000e-004		0.0127	0.0127		0.0127	0.0127	0.0000	3.7903	3.7903	3.8600e-003	0.0000	3.8714

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6637					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0741	0.0275	2.3527	1.2000e-004		0.0127	0.0127		0.0127	0.0127	0.0000	3.7903	3.7903	3.8600e-003	0.0000	3.8714
Total	0.8097	0.0275	2.3527	1.2000e-004		0.0127	0.0127		0.0127	0.0127	0.0000	3.7903	3.7903	3.8600e-003	0.0000	3.8714

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	70.3542	0.3337	8.1900e-003	79.9004
Unmitigated	87.9427	0.4172	0.0103	99.8820

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	12.7368 / 0	87.9427	0.4172	0.0103	99.8820
Total		87.9427	0.4172	0.0103	99.8820

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	10.1894 / 0	70.3542	0.3337	8.1900e-003	79.9004
Total		70.3542	0.3337	8.1900e-003	79.9004

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	16.6757	0.9855	0.0000	37.3713
Unmitigated	33.3514	1.9710	0.0000	74.7427

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	164.3	33.3514	1.9710	0.0000	74.7427
Total		33.3514	1.9710	0.0000	74.7427

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	82.15	16.6757	0.9855	0.0000	37.3713
Total		16.6757	0.9855	0.0000	37.3713

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Vegetation

Tropico 225 Units
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	225.00	Dwelling Unit	2.25	183,683.00	525

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2016
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	1115.33	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Proejct specific parameter from EIR

Construction Phase - Actual construction period per project - 22 to 23 months

Demolition - 1000 cy x 27 = 27.000 cubic feet x 150 lb concrete per cubic foot = 4,050,000 lb/2000 lbs = 2,025 tons

Grading - Project site size

Vehicle Trips - Traffic analysis uses ITE generation rate which there is no Sat or Sun rate.

Woodstoves - Project does not contain fireplaces or woodstoves

Water And Wastewater - Water usage from EIR water supply section

Solid Waste - Solid waste generation from EIR.

Construction Off-road Equipment Mitigation - 15 mph required per Rule 403

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Per City of Glendale Ordinance adopting CALGreen

Water Mitigation -

Waste Mitigation - Per City of Glendale Ordinance

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	60.00
tblConstructionPhase	NumDays	220.00	365.00

tblConstructionPhase	NumDays	6.00	50.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	191.25	0.00
tblFireplaces	NumberNoFireplace	22.50	0.00
tblFireplaces	NumberWood	11.25	0.00
tblGrading	AcresOfGrading	25.00	2.25
tblGrading	MaterialExported	0.00	100.00
tblLandUse	LandUseSquareFeet	225,000.00	183,683.00
tblLandUse	LotAcreage	5.92	2.25
tblLandUse	Population	644.00	525.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	103.50	164.30
tblVehicleTrips	ST_TR	7.16	6.00
tblVehicleTrips	SU_TR	6.07	6.00
tblVehicleTrips	WD_TR	6.59	6.00
tblWater	IndoorWaterUseRate	14,659,655.76	12,736,750.00
tblWater	OutdoorWaterUseRate	9,241,956.90	0.00
tblWoodstoves	NumberCatalytic	11.25	0.00
tblWoodstoves	NumberNoncatalytic	11.25	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	5.4448	34.1022	33.1490	0.0531	6.1851	2.0089	7.9635	3.3460	1.8826	4.9822	0.0000	4,972.6408	4,972.6408	0.7146	0.0000	4,987.6478
2015	24.4995	29.1237	31.2744	0.0531	1.9607	1.8167	3.7774	0.5229	1.7394	2.2623	0.0000	4,888.8530	4,888.8530	0.6778	0.0000	4,903.0867
2016	24.4470	2.5394	3.9640	7.5000e-003	0.3577	0.1996	0.5573	0.0949	0.1994	0.2942	0.0000	662.0747	662.0747	0.0527	0.0000	663.1816
Total	54.3912	65.7653	68.3873	0.1136	8.5035	4.0252	12.2982	3.9638	3.8213	7.5387	0.0000	10,523.5685	10,523.5685	1.4451	0.0000	10,553.9161

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	5.4448	34.1022	33.1490	0.0531	2.4825	2.0089	4.2610	1.3236	1.8826	2.9598	0.0000	4,972.6408	4,972.6408	0.7146	0.0000	4,987.6478
2015	24.4995	29.1237	31.2744	0.0531	1.9607	1.8167	3.7774	0.5229	1.7394	2.2623	0.0000	4,888.8530	4,888.8530	0.6778	0.0000	4,903.0867
2016	24.4470	2.5394	3.9640	7.5000e-003	0.3577	0.1996	0.5573	0.0949	0.1994	0.2942	0.0000	662.0747	662.0747	0.0527	0.0000	663.1816
Total	54.3912	65.7653	68.3873	0.1136	4.8009	4.0252	8.5957	1.9414	3.8213	5.5163	0.0000	10,523.5685	10,523.5685	1.4451	0.0000	10,553.9161

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	43.54	0.00	30.11	51.02	0.00	26.83	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.6233	0.2202	18.8214	9.8000e-004		0.1015	0.1015		0.1015	0.1015	0.0000	33.4243	33.4243	0.0341	0.0000	34.1396
Energy	0.0660	0.5636	0.2398	3.6000e-003		0.0456	0.0456		0.0456	0.0456		719.4568	719.4568	0.0138	0.0132	723.8353
Mobile	5.1804	15.0078	61.5757	0.1460	9.7815	0.2185	10.0000	2.6134	0.2009	2.8143		12,822.2698	12,822.2698	0.5057		12,832.8899
Total	9.8697	15.7916	80.6369	0.1505	9.7815	0.3656	10.1472	2.6134	0.3480	2.9614	0.0000	13,575.1509	13,575.1509	0.5536	0.0132	13,590.8648

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.6233	0.2202	18.8214	9.8000e-004		0.1015	0.1015		0.1015	0.1015	0.0000	33.4243	33.4243	0.0341	0.0000	34.1396
Energy	0.0578	0.4937	0.2101	3.1500e-003		0.0399	0.0399		0.0399	0.0399		630.2373	630.2373	0.0121	0.0116	634.0728
Mobile	4.8350	12.5975	52.4866	0.1195	7.9633	0.1799	8.1432	2.1276	0.1654	2.2930		10,496.5380	10,496.5380	0.4194		10,505.3459
Total	9.5161	13.3114	71.5181	0.1236	7.9633	0.3214	8.2847	2.1276	0.3069	2.4345	0.0000	11,160.1996	11,160.1996	0.4656	0.0116	11,173.5582

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.58	15.71	11.31	17.88	18.59	12.10	18.35	18.59	11.82	17.79	0.00	17.79	17.79	15.90	12.43	17.79

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2014	4/28/2014	5	20	
2	Grading	Grading	4/29/2014	7/7/2014	5	50	
3	Building Construction	Building Construction	7/8/2014	11/30/2015	5	365	
4	Architectural Coating	Architectural Coating	12/1/2015	2/22/2016	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.25

Acres of Paving: 0

Residential Indoor: 371,958; Residential Outdoor: 123,986; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	200.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	10.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	162.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2014**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					2.1667	0.0000	2.1667	0.3281	0.0000	0.3281			0.0000				0.0000
Off-Road	3.1589	30.4755	22.1905	0.0245		1.9381	1.9381		1.8174	1.8174		2,529.7369	2,529.7369	0.6423			2,543.2251
Total	3.1589	30.4755	22.1905	0.0245	2.1667	1.9381	4.1047	0.3281	1.8174	2.1455		2,529.7369	2,529.7369	0.6423			2,543.2251

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.2204	3.5429	2.2956	7.4000e-003	0.1742	0.0695	0.2437	0.0477	0.0639	0.1116		760.4307	760.4307	6.4800e-003			760.5668
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0670	0.0839	1.0348	1.8400e-003	0.1453	1.3700e-003	0.1467	0.0385	1.2500e-003	0.0398		165.4633	165.4633	9.4200e-003			165.6611
Total	0.2874	3.6267	3.3304	9.2400e-003	0.3195	0.0709	0.3904	0.0862	0.0652	0.1514		925.8940	925.8940	0.0159			926.2279

3.2 Demolition - 2014**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8450	0.0000	0.8450	0.1279	0.0000	0.1279			0.0000			0.0000
Off-Road	3.1589	30.4755	22.1905	0.0245		1.9381	1.9381		1.8174	1.8174	0.0000	2,529.7369	2,529.7369	0.6423		2,543.2251
Total	3.1589	30.4755	22.1905	0.0245	0.8450	1.9381	2.7831	0.1279	1.8174	1.9454	0.0000	2,529.7369	2,529.7369	0.6423		2,543.2251

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2204	3.5429	2.2956	7.4000e-003	0.1742	0.0695	0.2437	0.0477	0.0639	0.1116		760.4307	760.4307	6.4800e-003		760.5668
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0670	0.0839	1.0348	1.8400e-003	0.1453	1.3700e-003	0.1467	0.0385	1.2500e-003	0.0398		165.4633	165.4633	9.4200e-003		165.6611
Total	0.2874	3.6267	3.3304	9.2400e-003	0.3195	0.0709	0.3904	0.0862	0.0652	0.1514		925.8940	925.8940	0.0159		926.2279

3.3 Grading - 2014**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0698	0.0000	6.0698	3.3154	0.0000	3.3154			0.0000			0.0000
Off-Road	2.9828	31.6276	20.3007	0.0206		1.7760	1.7760		1.6340	1.6340		2,187.3730	2,187.3730	0.6464		2,200.9472
Total	2.9828	31.6276	20.3007	0.0206	6.0698	1.7760	7.8458	3.3154	1.6340	4.9493		2,187.3730	2,187.3730	0.6464		2,200.9472

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4100e-003	0.0709	0.0459	1.5000e-004	3.4800e-003	1.3900e-003	4.8700e-003	9.5000e-004	1.2800e-003	2.2300e-003		15.2086	15.2086	1.3000e-004		15.2113
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0515	0.0645	0.7960	1.4200e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306		127.2795	127.2795	7.2400e-003		127.4316
Total	0.0559	0.1354	0.8419	1.5700e-003	0.1153	2.4400e-003	0.1177	0.0306	2.2400e-003	0.0328		142.4881	142.4881	7.3700e-003		142.6429

3.3 Grading - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3672	0.0000	2.3672	1.2930	0.0000	1.2930			0.0000			0.0000
Off-Road	2.9828	31.6276	20.3007	0.0206		1.7760	1.7760		1.6340	1.6340	0.0000	2,187.3729	2,187.3729	0.6464		2,200.9472
Total	2.9828	31.6276	20.3007	0.0206	2.3672	1.7760	4.1433	1.2930	1.6340	2.9270	0.0000	2,187.3729	2,187.3729	0.6464		2,200.9472

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4100e-003	0.0709	0.0459	1.5000e-004	3.4800e-003	1.3900e-003	4.8700e-003	9.5000e-004	1.2800e-003	2.2300e-003		15.2086	15.2086	1.3000e-004		15.2113
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0515	0.0645	0.7960	1.4200e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306		127.2795	127.2795	7.2400e-003		127.4316
Total	0.0559	0.1354	0.8419	1.5700e-003	0.1153	2.4400e-003	0.1177	0.0306	2.2400e-003	0.0328		142.4881	142.4881	7.3700e-003		142.6429

3.4 Building Construction - 2014**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.3480	26.9541	17.3783	0.0249		1.8799	1.8799		1.8047	1.8047		2,375.6923	2,375.6923	0.5925		2,388.1357
Total	4.3480	26.9541	17.3783	0.0249		1.8799	1.8799		1.8047	1.8047		2,375.6923	2,375.6923	0.5925		2,388.1357

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2622	2.6902	2.8756	5.2400e-003	0.1499	0.0534	0.2033	0.0427	0.0491	0.0918		535.0214	535.0214	4.7100e-003		535.1203
Worker	0.8346	1.0450	12.8951	0.0229	1.8108	0.0171	1.8279	0.4802	0.0156	0.4958		2,061.9271	2,061.9271	0.1174		2,064.3918
Total	1.0968	3.7351	15.7707	0.0282	1.9607	0.0704	2.0311	0.5229	0.0647	0.5876		2,596.9485	2,596.9485	0.1221		2,599.5121

3.4 Building Construction - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.3480	26.9541	17.3783	0.0249		1.8799	1.8799		1.8047	1.8047	0.0000	2,375.6923	2,375.6923	0.5925		2,388.1357
Total	4.3480	26.9541	17.3783	0.0249		1.8799	1.8799		1.8047	1.8047	0.0000	2,375.6923	2,375.6923	0.5925		2,388.1357

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2622	2.6902	2.8756	5.2400e-003	0.1499	0.0534	0.2033	0.0427	0.0491	0.0918		535.0214	535.0214	4.7100e-003		535.1203
Worker	0.8346	1.0450	12.8951	0.0229	1.8108	0.0171	1.8279	0.4802	0.0156	0.4958		2,061.9271	2,061.9271	0.1174		2,064.3918
Total	1.0968	3.7351	15.7707	0.0282	1.9607	0.0704	2.0311	0.5229	0.0647	0.5876		2,596.9485	2,596.9485	0.1221		2,599.5121

3.4 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870		2,364.0797	2,364.0797	0.5662		2,375.9701
Total	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870		2,364.0797	2,364.0797	0.5662		2,375.9701

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2261	2.3468	2.5973	5.2300e-003	0.1500	0.0410	0.1910	0.0427	0.0377	0.0804		529.0973	529.0973	4.1400e-003		529.1842
Worker	0.7498	0.9380	11.6306	0.0230	1.8108	0.0159	1.8267	0.4802	0.0146	0.4948		1,995.6759	1,995.6759	0.1075		1,997.9324
Total	0.9759	3.2848	14.2279	0.0282	1.9607	0.0570	2.0177	0.5229	0.0524	0.5753		2,524.7733	2,524.7733	0.1116		2,527.1166

3.4 Building Construction - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870	0.0000	2,364.0797	2,364.0797	0.5662		2,375.9701
Total	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870	0.0000	2,364.0797	2,364.0797	0.5662		2,375.9701

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2261	2.3468	2.5973	5.2300e-003	0.1500	0.0410	0.1910	0.0427	0.0377	0.0804		529.0973	529.0973	4.1400e-003		529.1842
Worker	0.7498	0.9380	11.6306	0.0230	1.8108	0.0159	1.8267	0.4802	0.0146	0.4948		1,995.6759	1,995.6759	0.1075		1,997.9324
Total	0.9759	3.2848	14.2279	0.0282	1.9607	0.0570	2.0177	0.5229	0.0524	0.5753		2,524.7733	2,524.7733	0.1116		2,527.1166

3.5 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	23.9448					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367			282.2177
Total	24.3514	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367			282.2177

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1481	0.1853	2.2974	4.5300e-003	0.3577	3.1500e-003	0.3608	0.0949	2.8900e-003	0.0977		394.2076	394.2076	0.0212			394.6533
Total	0.1481	0.1853	2.2974	4.5300e-003	0.3577	3.1500e-003	0.3608	0.0949	2.8900e-003	0.0977		394.2076	394.2076	0.0212			394.6533

3.5 Architectural Coating - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.9448					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367		282.2177
Total	24.3514	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367		282.2177

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1481	0.1853	2.2974	4.5300e-003	0.3577	3.1500e-003	0.3608	0.0949	2.8900e-003	0.0977		394.2076	394.2076	0.0212		394.6533
Total	0.1481	0.1853	2.2974	4.5300e-003	0.3577	3.1500e-003	0.3608	0.0949	2.8900e-003	0.0977		394.2076	394.2076	0.0212		394.6533

3.5 Architectural Coating - 2016**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.9448					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	24.3133	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1337	0.1671	2.0801	4.5300e-003	0.3577	2.9900e-003	0.3607	0.0949	2.7500e-003	0.0976		380.6267	380.6267	0.0195		381.0368
Total	0.1337	0.1671	2.0801	4.5300e-003	0.3577	2.9900e-003	0.3607	0.0949	2.7500e-003	0.0976		380.6267	380.6267	0.0195		381.0368

3.5 Architectural Coating - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.9448					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
Total	24.3133	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1337	0.1671	2.0801	4.5300e-003	0.3577	2.9900e-003	0.3607	0.0949	2.7500e-003	0.0976		380.6267	380.6267	0.0195		381.0368
Total	0.1337	0.1671	2.0801	4.5300e-003	0.3577	2.9900e-003	0.3607	0.0949	2.7500e-003	0.0976		380.6267	380.6267	0.0195		381.0368

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.8350	12.5975	52.4866	0.1195	7.9633	0.1799	8.1432	2.1276	0.1654	2.2930		10,496.53 80	10,496.53 80	0.4194		10,505.34 59
Unmitigated	5.1804	15.0078	61.5757	0.1460	9.7815	0.2185	10.0000	2.6134	0.2009	2.8143		12,822.26 98	12,822.26 98	0.5057		12,832.88 99

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,350.00	1,350.00	1350.00	4,613,155	3,755,638
Total	1,350.00	1,350.00	1,350.00	4,613,155	3,755,638

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513363	0.060352	0.180146	0.139338	0.042155	0.006672	0.015739	0.030749	0.001928	0.002503	0.004351	0.000593	0.002111

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0578	0.4937	0.2101	3.1500e-003		0.0399	0.0399		0.0399	0.0399		630.2373	630.2373	0.0121	0.0116	634.0728
NaturalGas Unmitigated	0.0660	0.5636	0.2398	3.6000e-003		0.0456	0.0456		0.0456	0.0456		719.4568	719.4568	0.0138	0.0132	723.8353

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	6115.38	0.0660	0.5636	0.2398	3.6000e-003		0.0456	0.0456		0.0456	0.0456		719.4568	719.4568	0.0138	0.0132	723.8353
Total		0.0660	0.5636	0.2398	3.6000e-003		0.0456	0.0456		0.0456	0.0456		719.4568	719.4568	0.0138	0.0132	723.8353

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5.35702	0.0578	0.4937	0.2101	3.1500e-003		0.0399	0.0399		0.0399	0.0399		630.2373	630.2373	0.0121	0.0116	634.0728
Total		0.0578	0.4937	0.2101	3.1500e-003		0.0399	0.0399		0.0399	0.0399		630.2373	630.2373	0.0121	0.0116	634.0728

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.6233	0.2202	18.8214	9.8000e-004		0.1015	0.1015		0.1015	0.1015	0.0000	33.4243	33.4243	0.0341	0.0000	34.1396
Unmitigated	4.6233	0.2202	18.8214	9.8000e-004		0.1015	0.1015		0.1015	0.1015	0.0000	33.4243	33.4243	0.0341	0.0000	34.1396

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3936					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6369					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5927	0.2202	18.8214	9.8000e-004		0.1015	0.1015		0.1015	0.1015		33.4243	33.4243	0.0341		34.1396
Total	4.6233	0.2202	18.8214	9.8000e-004		0.1015	0.1015		0.1015	0.1015	0.0000	33.4243	33.4243	0.0341	0.0000	34.1396

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3936					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6369					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5927	0.2202	18.8214	9.8000e-004		0.1015	0.1015		0.1015	0.1015		33.4243	33.4243	0.0341		34.1396
Total	4.6233	0.2202	18.8214	9.8000e-004		0.1015	0.1015		0.1015	0.1015	0.0000	33.4243	33.4243	0.0341	0.0000	34.1396

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Vegetation

Tropico 225 Units
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	225.00	Dwelling Unit	2.25	183,683.00	525

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2016
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	1115.33	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Proejct specific parameter from EIR

Construction Phase - Actual construction period per project - 22 to 23 months

Demolition - 1000 cy x 27 = 27.000 cubic feet x 150 lb concrete per cubic foot = 4,050,000 lb/2000 lbs = 2,025 tons

Grading - Project site size

Vehicle Trips - Traffic analysis uses ITE generation rate which there is no Sat or Sun rate.

Woodstoves - Project does not contain fireplaces or woodstoves

Water And Wastewater - Water usage from EIR water supply section

Solid Waste - Solid waste generation from EIR.

Construction Off-road Equipment Mitigation - 15 mph required per Rule 403

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Per City of Glendale Ordinance adopting CALGreen

Water Mitigation -

Waste Mitigation - Per City of Glendale Ordinance

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	60.00
tblConstructionPhase	NumDays	220.00	365.00

tblConstructionPhase	NumDays	6.00	50.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	191.25	0.00
tblFireplaces	NumberNoFireplace	22.50	0.00
tblFireplaces	NumberWood	11.25	0.00
tblGrading	AcresOfGrading	25.00	2.25
tblGrading	MaterialExported	0.00	100.00
tblLandUse	LandUseSquareFeet	225,000.00	183,683.00
tblLandUse	LotAcreage	5.92	2.25
tblLandUse	Population	644.00	525.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	103.50	164.30
tblVehicleTrips	ST_TR	7.16	6.00
tblVehicleTrips	SU_TR	6.07	6.00
tblVehicleTrips	WD_TR	6.59	6.00
tblWater	IndoorWaterUseRate	14,659,655.76	12,736,750.00
tblWater	OutdoorWaterUseRate	9,241,956.90	0.00
tblWoodstoves	NumberCatalytic	11.25	0.00
tblWoodstoves	NumberNoncatalytic	11.25	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	5.4919	34.2400	32.6982	0.0516	6.1851	2.0092	7.9636	3.3460	1.8828	4.9822	0.0000	4,840.8850	4,840.8850	0.7147	0.0000	4,855.8946
2015	24.5029	29.2766	30.8781	0.0516	1.9607	1.8172	3.7779	0.5229	1.7398	2.2628	0.0000	4,760.9309	4,760.9309	0.6779	0.0000	4,775.1670
2016	24.4498	2.5557	3.8004	7.2200e-003	0.3577	0.1996	0.5573	0.0949	0.1994	0.2942	0.0000	638.4769	638.4769	0.0527	0.0000	639.5839
Total	54.4446	66.0722	67.3768	0.1104	8.5035	4.0259	12.2987	3.9638	3.8220	7.5392	0.0000	10,240.2929	10,240.2929	1.4454	0.0000	10,270.6455

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	5.4919	34.2400	32.6982	0.0516	2.4825	2.0092	4.2610	1.3236	1.8828	2.9598	0.0000	4,840.8850	4,840.8850	0.7147	0.0000	4,855.8946
2015	24.5029	29.2766	30.8781	0.0516	1.9607	1.8172	3.7779	0.5229	1.7398	2.2628	0.0000	4,760.9309	4,760.9309	0.6779	0.0000	4,775.1670
2016	24.4498	2.5557	3.8004	7.2200e-003	0.3577	0.1996	0.5573	0.0949	0.1994	0.2942	0.0000	638.4769	638.4769	0.0527	0.0000	639.5839
Total	54.4446	66.0722	67.3768	0.1104	4.8009	4.0259	8.5962	1.9414	3.8220	5.5168	0.0000	10,240.2929	10,240.2929	1.4454	0.0000	10,270.6455

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	43.54	0.00	30.11	51.02	0.00	26.83	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.6233	0.2202	18.8214	9.8000e-004		0.1015	0.1015		0.1015	0.1015	0.0000	33.4243	33.4243	0.0341	0.0000	34.1396
Energy	0.0660	0.5636	0.2398	3.6000e-003		0.0456	0.0456		0.0456	0.0456		719.4568	719.4568	0.0138	0.0132	723.8353
Mobile	5.3485	15.7924	60.2581	0.1386	9.7815	0.2194	10.0009	2.6134	0.2017	2.8151		12,201.4099	12,201.4099	0.5061		12,212.0375
Total	10.0377	16.5762	79.3193	0.1432	9.7815	0.3665	10.1480	2.6134	0.3489	2.9622	0.0000	12,954.2909	12,954.2909	0.5539	0.0132	12,970.0123

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.6233	0.2202	18.8214	9.8000e-004		0.1015	0.1015		0.1015	0.1015	0.0000	33.4243	33.4243	0.0341	0.0000	34.1396
Energy	0.0578	0.4937	0.2101	3.1500e-003		0.0399	0.0399		0.0399	0.0399		630.2373	630.2373	0.0121	0.0116	634.0728
Mobile	5.0133	13.2400	52.0721	0.1135	7.9633	0.1808	8.1441	2.1276	0.1662	2.2938		9,988.8641	9,988.8641	0.4198		9,997.6794
Total	9.6944	13.9539	71.1036	0.1177	7.9633	0.3223	8.2855	2.1276	0.3077	2.4353	0.0000	10,652.5257	10,652.5257	0.4659	0.0116	10,665.8918

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.42	15.82	10.36	17.85	18.59	12.08	18.35	18.59	11.80	17.79	0.00	17.77	17.77	15.89	12.43	17.76

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2014	4/28/2014	5	20	
2	Grading	Grading	4/29/2014	7/7/2014	5	50	
3	Building Construction	Building Construction	7/8/2014	11/30/2015	5	365	
4	Architectural Coating	Architectural Coating	12/1/2015	2/22/2016	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.25

Acres of Paving: 0

Residential Indoor: 371,958; Residential Outdoor: 123,986; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	200.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	10.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	162.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2014**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1667	0.0000	2.1667	0.3281	0.0000	0.3281			0.0000			0.0000
Off-Road	3.1589	30.4755	22.1905	0.0245		1.9381	1.9381		1.8174	1.8174		2,529.7369	2,529.7369	0.6423		2,543.2251
Total	3.1589	30.4755	22.1905	0.0245	2.1667	1.9381	4.1047	0.3281	1.8174	2.1455		2,529.7369	2,529.7369	0.6423		2,543.2251

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2343	3.6724	2.5732	7.3800e-003	0.1742	0.0697	0.2439	0.0477	0.0641	0.1118		758.6322	758.6322	6.5600e-003		758.7698
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.0921	0.9596	1.7300e-003	0.1453	1.3700e-003	0.1467	0.0385	1.2500e-003	0.0398		155.2457	155.2457	9.4200e-003		155.4435
Total	0.3029	3.7645	3.5328	9.1100e-003	0.3195	0.0711	0.3906	0.0862	0.0654	0.1516		913.8778	913.8778	0.0160		914.2133

3.2 Demolition - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8450	0.0000	0.8450	0.1279	0.0000	0.1279			0.0000			0.0000
Off-Road	3.1589	30.4755	22.1905	0.0245		1.9381	1.9381		1.8174	1.8174	0.0000	2,529.7369	2,529.7369	0.6423		2,543.2251
Total	3.1589	30.4755	22.1905	0.0245	0.8450	1.9381	2.7831	0.1279	1.8174	1.9454	0.0000	2,529.7369	2,529.7369	0.6423		2,543.2251

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2343	3.6724	2.5732	7.3800e-003	0.1742	0.0697	0.2439	0.0477	0.0641	0.1118		758.6322	758.6322	6.5600e-003		758.7698
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.0921	0.9596	1.7300e-003	0.1453	1.3700e-003	0.1467	0.0385	1.2500e-003	0.0398		155.2457	155.2457	9.4200e-003		155.4435
Total	0.3029	3.7645	3.5328	9.1100e-003	0.3195	0.0711	0.3906	0.0862	0.0654	0.1516		913.8778	913.8778	0.0160		914.2133

3.3 Grading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0698	0.0000	6.0698	3.3154	0.0000	3.3154			0.0000			0.0000
Off-Road	2.9828	31.6276	20.3007	0.0206		1.7760	1.7760		1.6340	1.6340		2,187.3730	2,187.3730	0.6464		2,200.9472
Total	2.9828	31.6276	20.3007	0.0206	6.0698	1.7760	7.8458	3.3154	1.6340	4.9493		2,187.3730	2,187.3730	0.6464		2,200.9472

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.6900e-003	0.0735	0.0515	1.5000e-004	3.4800e-003	1.3900e-003	4.8800e-003	9.5000e-004	1.2800e-003	2.2400e-003		15.1726	15.1726	1.3000e-004		15.1754
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0528	0.0708	0.7381	1.3300e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306		119.4197	119.4197	7.2400e-003		119.5719
Total	0.0575	0.1443	0.7896	1.4800e-003	0.1153	2.4400e-003	0.1177	0.0306	2.2400e-003	0.0329		134.5924	134.5924	7.3700e-003		134.7473

3.3 Grading - 2014**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3672	0.0000	2.3672	1.2930	0.0000	1.2930			0.0000			0.0000
Off-Road	2.9828	31.6276	20.3007	0.0206		1.7760	1.7760		1.6340	1.6340	0.0000	2,187.3729	2,187.3729	0.6464		2,200.9472
Total	2.9828	31.6276	20.3007	0.0206	2.3672	1.7760	4.1433	1.2930	1.6340	2.9270	0.0000	2,187.3729	2,187.3729	0.6464		2,200.9472

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.6900e-003	0.0735	0.0515	1.5000e-004	3.4800e-003	1.3900e-003	4.8800e-003	9.5000e-004	1.2800e-003	2.2400e-003		15.1726	15.1726	1.3000e-004		15.1754
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0528	0.0708	0.7381	1.3300e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306		119.4197	119.4197	7.2400e-003		119.5719
Total	0.0575	0.1443	0.7896	1.4800e-003	0.1153	2.4400e-003	0.1177	0.0306	2.2400e-003	0.0329		134.5924	134.5924	7.3700e-003		134.7473

3.4 Building Construction - 2014**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.3480	26.9541	17.3783	0.0249		1.8799	1.8799		1.8047	1.8047		2,375.6923	2,375.6923	0.5925		2,388.1357
Total	4.3480	26.9541	17.3783	0.0249		1.8799	1.8799		1.8047	1.8047		2,375.6923	2,375.6923	0.5925		2,388.1357

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2886	2.7624	3.3620	5.2000e-003	0.1499	0.0541	0.2040	0.0427	0.0497	0.0924		530.5930	530.5930	4.8300e-003		530.6944
Worker	0.8553	1.1475	11.9579	0.0215	1.8108	0.0171	1.8279	0.4802	0.0156	0.4958		1,934.5998	1,934.5998	0.1174		1,937.0645
Total	1.1439	3.9099	15.3199	0.0267	1.9607	0.0712	2.0319	0.5229	0.0653	0.5882		2,465.1927	2,465.1927	0.1222		2,467.7589

3.4 Building Construction - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.3480	26.9541	17.3783	0.0249		1.8799	1.8799		1.8047	1.8047	0.0000	2,375.6923	2,375.6923	0.5925		2,388.1357
Total	4.3480	26.9541	17.3783	0.0249		1.8799	1.8799		1.8047	1.8047	0.0000	2,375.6923	2,375.6923	0.5925		2,388.1357

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2886	2.7624	3.3620	5.2000e-003	0.1499	0.0541	0.2040	0.0427	0.0497	0.0924		530.5930	530.5930	4.8300e-003		530.6944
Worker	0.8553	1.1475	11.9579	0.0215	1.8108	0.0171	1.8279	0.4802	0.0156	0.4958		1,934.5998	1,934.5998	0.1174		1,937.0645
Total	1.1439	3.9099	15.3199	0.0267	1.9607	0.0712	2.0319	0.5229	0.0653	0.5882		2,465.1927	2,465.1927	0.1222		2,467.7589

3.4 Building Construction - 2015**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870		2,364.0797	2,364.0797	0.5662		2,375.9701
Total	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870		2,364.0797	2,364.0797	0.5662		2,375.9701

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2484	2.4078	3.0811	5.1900e-003	0.1500	0.0415	0.1915	0.0427	0.0382	0.0809		524.6805	524.6805	4.2500e-003		524.7698
Worker	0.7671	1.0298	10.7505	0.0215	1.8108	0.0159	1.8267	0.4802	0.0146	0.4948		1,872.1707	1,872.1707	0.1075		1,874.4271
Total	1.0154	3.4377	13.8316	0.0267	1.9607	0.0575	2.0182	0.5229	0.0528	0.5757		2,396.8512	2,396.8512	0.1117		2,399.1969

3.4 Building Construction - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870	0.0000	2,364.0797	2,364.0797	0.5662		2,375.9701
Total	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870	0.0000	2,364.0797	2,364.0797	0.5662		2,375.9701

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2484	2.4078	3.0811	5.1900e-003	0.1500	0.0415	0.1915	0.0427	0.0382	0.0809		524.6805	524.6805	4.2500e-003		524.7698
Worker	0.7671	1.0298	10.7505	0.0215	1.8108	0.0159	1.8267	0.4802	0.0146	0.4948		1,872.1707	1,872.1707	0.1075		1,874.4271
Total	1.0154	3.4377	13.8316	0.0267	1.9607	0.0575	2.0182	0.5229	0.0528	0.5757		2,396.8512	2,396.8512	0.1117		2,399.1969

3.5 Architectural Coating - 2015**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.9448					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177
Total	24.3514	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1515	0.2034	2.1236	4.2500e-003	0.3577	3.1500e-003	0.3608	0.0949	2.8900e-003	0.0977		369.8115	369.8115	0.0212		370.2572
Total	0.1515	0.2034	2.1236	4.2500e-003	0.3577	3.1500e-003	0.3608	0.0949	2.8900e-003	0.0977		369.8115	369.8115	0.0212		370.2572

3.5 Architectural Coating - 2015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.9448					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367		282.2177
Total	24.3514	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367		282.2177

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1515	0.2034	2.1236	4.2500e-003	0.3577	3.1500e-003	0.3608	0.0949	2.8900e-003	0.0977		369.8115	369.8115	0.0212		370.2572
Total	0.1515	0.2034	2.1236	4.2500e-003	0.3577	3.1500e-003	0.3608	0.0949	2.8900e-003	0.0977		369.8115	369.8115	0.0212		370.2572

3.5 Architectural Coating - 2016**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.9448					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	24.3133	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1365	0.1835	1.9165	4.2500e-003	0.3577	2.9900e-003	0.3607	0.0949	2.7500e-003	0.0976		357.0289	357.0289	0.0195		357.4390
Total	0.1365	0.1835	1.9165	4.2500e-003	0.3577	2.9900e-003	0.3607	0.0949	2.7500e-003	0.0976		357.0289	357.0289	0.0195		357.4390

3.5 Architectural Coating - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.9448					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
Total	24.3133	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1365	0.1835	1.9165	4.2500e-003	0.3577	2.9900e-003	0.3607	0.0949	2.7500e-003	0.0976		357.0289	357.0289	0.0195		357.4390
Total	0.1365	0.1835	1.9165	4.2500e-003	0.3577	2.9900e-003	0.3607	0.0949	2.7500e-003	0.0976		357.0289	357.0289	0.0195		357.4390

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.0133	13.2400	52.0721	0.1135	7.9633	0.1808	8.1441	2.1276	0.1662	2.2938		9,988.864 1	9,988.864 1	0.4198		9,997.679 4
Unmitigated	5.3485	15.7924	60.2581	0.1386	9.7815	0.2194	10.0009	2.6134	0.2017	2.8151		12,201.40 99	12,201.40 99	0.5061		12,212.03 75

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,350.00	1,350.00	1350.00	4,613,155	3,755,638
Total	1,350.00	1,350.00	1,350.00	4,613,155	3,755,638

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513363	0.060352	0.180146	0.139338	0.042155	0.006672	0.015739	0.030749	0.001928	0.002503	0.004351	0.000593	0.002111

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0578	0.4937	0.2101	3.1500e-003		0.0399	0.0399		0.0399	0.0399		630.2373	630.2373	0.0121	0.0116	634.0728
NaturalGas Unmitigated	0.0660	0.5636	0.2398	3.6000e-003		0.0456	0.0456		0.0456	0.0456		719.4568	719.4568	0.0138	0.0132	723.8353

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	6115.38	0.0660	0.5636	0.2398	3.6000e-003		0.0456	0.0456		0.0456	0.0456		719.4568	719.4568	0.0138	0.0132	723.8353
Total		0.0660	0.5636	0.2398	3.6000e-003		0.0456	0.0456		0.0456	0.0456		719.4568	719.4568	0.0138	0.0132	723.8353

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5.35702	0.0578	0.4937	0.2101	3.1500e-003		0.0399	0.0399		0.0399	0.0399		630.2373	630.2373	0.0121	0.0116	634.0728
Total		0.0578	0.4937	0.2101	3.1500e-003		0.0399	0.0399		0.0399	0.0399		630.2373	630.2373	0.0121	0.0116	634.0728

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.6233	0.2202	18.8214	9.8000e-004		0.1015	0.1015		0.1015	0.1015	0.0000	33.4243	33.4243	0.0341	0.0000	34.1396
Unmitigated	4.6233	0.2202	18.8214	9.8000e-004		0.1015	0.1015		0.1015	0.1015	0.0000	33.4243	33.4243	0.0341	0.0000	34.1396

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3936					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6369					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5927	0.2202	18.8214	9.8000e-004		0.1015	0.1015		0.1015	0.1015		33.4243	33.4243	0.0341		34.1396
Total	4.6233	0.2202	18.8214	9.8000e-004		0.1015	0.1015		0.1015	0.1015	0.0000	33.4243	33.4243	0.0341	0.0000	34.1396

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3936					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.6369					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5927	0.2202	18.8214	9.8000e-004		0.1015	0.1015		0.1015	0.1015		33.4243	33.4243	0.0341		34.1396
Total	4.6233	0.2202	18.8214	9.8000e-004		0.1015	0.1015		0.1015	0.1015	0.0000	33.4243	33.4243	0.0341	0.0000	34.1396

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Vegetation

APPENDIX 4.3

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT AND LIMITED PHASE 2



November 8, 2007

JPI California Development Services, L.P.
5796 Armada Drive, Suite 300
Carlsbad, California 92008

Prepared for:

JPI California Development Services, L.P.
5796 Armada Drive, Suite 300
Carlsbad, California 92008

Prepared by:

QORE, Inc.
Dallas, Texas

REPORT OF PHASE I AND II
ENVIRONMENTAL SITE ASSESSMENT AND
ADDITIONAL SERVICES

465 Los Feliz
435 to 465 West Los Feliz Road
And 434 to 450 Fernando Court
Glendale, Los Angeles County, California 91204

November 8, 2007
QORE Project 150-1421

Attention: Mr. Ben Brosseau

Subject: **Report of Phase I and II Environmental Site Assessment
And Additional Services
465 Los Feliz
435 to 465 West Los Feliz Road
And 434 to 450 Fernando Court
Glendale, Los Angeles County, California 91204
QORE Project 150-1421**


Dear Mr. Brosseau:

QORE, Inc. (QORE) is pleased to submit this report of the Phase I and II Environmental Site Assessment and Additional Services for 465 Los Feliz located at 435 to 465 West Los Feliz Boulevard and 434 to 450 Fernando Court in Glendale, Los Angeles County, California 91204. This report discusses background information, purpose and scope of work, execution of work, conclusions, and recommendations for the subject property.

ASTM E 1527-05 states that an ESA "meeting or exceeding" this practice and completed less than 180 days prior to the date of acquisition or intended transaction is presumed to be valid if the report is being relied on by the user for whom the assessment was originally prepared and the following components were completed: interviews, searches for recorded environmental cleanup liens, the regulatory review, site visit, and the declaration by the environmental professional responsible for the assessment. Based on this requirement, this report is not considered to be valid 180 days after September 25, 2007.

We appreciate your selection of QORE for this project and look forward to assisting you further on other projects. If you have any questions, please do not hesitate to contact either of the undersigned.

Sincerely,
QORE, Inc.


Karen Harvey
Associate Professional -
Environmental Services


Amy Smith
Senior Environmental Professional

cc: Elizabeth Mack – Locke Lord Bissell and Liddell LLP

S:\Clients\JPI\Projects\1421 465 Los Feliz-Glendale\Report Text\1421 ESA.doc

TABLE OF CONTENTS

1.0 EXECUTIVE SUMMARY 1

2.0 INTRODUCTION..... 6

 2.1 Purpose..... 6

 2.2 Detailed Scope-of-Services..... 7

 2.3 Significant Assumptions 8

 2.4 Limitations and Exceptions 9

 2.5 Special Terms and Conditions..... 10

3.0 SUBJECT PROPERTY DESCRIPTION 10

 3.1 Location and Description 10

 3.2 Physical Setting Source(s)..... 10

 3.2.1 Surface Drainage and Soil 11

 3.2.2 Groundwater..... 11

4.0 USER-PROVIDED INFORMATION..... 12

 4.1 Title Records 13

 4.2 Environmental Liens or Activity and Use Limitations 13

 4.3 Specialized Knowledge 13

 4.4 Valuation Reduction for Environmental Issues 13

 4.5 Commonly Known or Reasonably Ascertainable Information 13

 4.6 Owner, Property Manager, and Occupant Information..... 14

 4.7 Reason for Performing Phase I..... 14

5.0 HISTORICAL RECORDS REVIEW 14

 5.1 Historical Use Information on the Subject Property 15

 5.2 Historical Use Information on Adjoining Properties..... 31

 5.3 Review of Previous Reports..... 35

6.0 RECORDS REVIEW 40

 6.1 Standard Environmental Record Sources 40

 6.2 Additional Environmental Record Sources 50

7.0 SUBJECT PROPERTY RECONNAISSANCE 50

 7.1 Methodology and Limiting Conditions..... 50

 7.2 Above and Underground Storage Tanks 51

 7.3 Lead-Based Paint..... 51

 7.4 Asbestos Survey 51

 Friable 53

 Condition 53

 7.5 Solid (Non-Hazardous) Waste 55

 7.6 Hazardous Materials/Hazardous Waste and Petroleum Products..... 55

 7.7 Potential Polychlorinated Biphenyls (PCB) Containing Equipment 56

 7.8 Water and Wastewater/Stormwater..... 56

 7.8.1 Groundwater Resources 56

 7.8.2 Surface Water..... 56

 7.8.3 Wastewater 56

 7.9 Drinking Water 57

 7.10 Wetlands/Endangered Species..... 57

 7.11 Radon 57

 7.12 Air Emissions 57

 7.13 Dry Cleaning Operations 57

 7.14 Site-Specific Environmental Issues 58

 7.15 Phase II Environmental Assessment 58

7.15.1 Reasons for Conducting Phase II Assessment 58

7.15.2 QORE's Phase II Assessment Objective 58

7.15.2.1 Soil Sampling Activities 58

7.15.2.2 Groundwater Monitoring Well Installation..... 59

7.15.2.3 Analytical Results 60

7.15.3 Comparison Criteria 60

7.15.4 Conclusions of QORE's Subsurface Assessment..... 61

8.0 REVIEW OF NEARBY/ADJACENT PROPERTIES 62

9.0 CONCLUSIONS AND RECOMMENDATIONS 63

10.0 DATA GAPS AND DEVIATIONS 67

11.0 REFERENCES..... 67

12.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONAL(S) 69

13.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL(S) 70

Table
 Groundwater Analytical Data

- Appendices
- Appendix A - Figures:
 - Site (Vicinity) Map
 - Site Plan
 - 2006 Aerial Photograph
 - Historical Site Plan
 - Groundwater Laboratory Results
 - Appendix B - Photographs
 - Appendix C - Historical Research Documentation
 - Appendix D - Regulatory Records Documentation
 - Appendix E - Interviews and Information Requested from Client
 - Appendix F - Resumes
 - Appendix G - Asbestos Analytical Results and Laboratory Documentation
 - Appendix H - Groundwater Analysis Laboratory Documentation
 - Appendix I - Soil Boring Logs and Monitoring Well Construction Details

1.0 EXECUTIVE SUMMARY

Phase I and II Environmental Site Assessment
And Additional Services
465 Los Feliz
435 to 465 West Los Feliz Road
And 434 to 450 Fernando Court
Glendale, Los Angeles County, California 91204

JPI California Development Services, L.P. (JPI) engaged QORE, Inc. (QORE) to perform a Phase I and II Environmental Site Assessment and Additional Services of 465 Los Feliz, located at 435 to 465 West Los Feliz Road and 434 to 450 Fernando Court in Glendale, Los Angeles County, California (subject property). The subject property encompassed approximately two acres of land and was improved with six vacant office/warehouse buildings with concrete and asphalt parking lots. Building 1, located on the southern corner of the subject property, was constructed in the late 1930s. The remaining on-site buildings were constructed in the 1950s and 1960s. The subject property was located in an area characterized by commercial office/warehouses, light industrial facilities, retail businesses, and single and multifamily residences.

Based on the information obtained to date, QORE's conclusions and recommendations are as follows:

- QORE's Phase I ESA identified multiple suspect *recognized environmental conditions* associated with current and historical uses of the subject property and nearby properties. These included the potential presence of former facilities that utilized USTs on the northeast, southeast and southwest portions of the subject property, a former vehicle maintenance facility (Byron's) on the northwest portion of the subject property, a former printer located on the southeast portion of the subject property, Glendale Rotary Offset Printers located on the northeast portion of the subject property and clarifiers associated with prior food processing companies on the southwest portion of the subject property. QORE also identified regulatory listings for two prior on-site tenants that were considered to be suspect *recognized environmental conditions*: Chef's Select, and Mountain Valley Water Company.

Prior assessment conducted by TRAK in 2004 and EP Associates in 2005 included installation of over 60 soil borings, the collection and analysis of soil samples throughout the subject property and geophysical surveys in the northwest, southwest and southeast portions of the subject property. The TRAK and EP investigations did not identify impact exceeding regulatory screening criteria in the soil samples. The geophysical surveys identified three anomalies on the southeast portion of the subject property, two of which were suspected to be USTs. Based on the information obtained during QORE's Phase I ESA, including review of the prior assessment results, QORE concluded that prior gasoline service stations/fuel storage activities on the southwest and southeast portions of the subject property were *recognized environmental conditions*.

- Tetrachloroethylene (PCE) was identified in two borings during the 2004 TRAK assessment at concentrations well below the Environmental Screening Limits (ESL) and the California Preliminary Remediation Goal (PRG) for PCE in

Residential Soil. QORE has not identified a specific on-site source of PCE. However, PCE could have been present in a cleaning solvent used by one of the former subject property tenants. QORE considers the detected concentrations of PCE to be a *de minimis* condition. Based on depth to groundwater and the low levels of PCE detected in soil, it is unlikely that the subject property has significantly contributed to the regional groundwater plume.

- QORE identified several regulatory facilities on adjoining properties to the northwest and north of the subject property to be suspect *recognized environmental conditions* due to the long term use of petroleum products and/or hazardous substances. QORE also noted that the subject property was located within the San Fernando Valley (Crystal Spring Wellfield) NPL chlorinated solvent plume where Lockheed Martin has been identified as the primary responsible party. Based on facility specific characteristics, depth to groundwater, distance and/or topographic gradient, the remaining regulatory facilities in the subject property vicinity were not considered to be *recognized environmental conditions*.
- In an attempt to assess groundwater conditions flowing onto and from the subject property, QORE conducted a Phase II subsurface assessment that included installation of four soil borings converted to groundwater monitoring wells and collection of groundwater samples from each of the four borings/monitoring wells for Volatile Organic Compounds (VOCs) and Total Petroleum Hydrocarbon (TPH) analysis.
 - Groundwater samples from the October 2007 sampling event did not indicate the presence of TPH in the groundwater wells with the exception of TPH-diesel at 64 ppb in MW-3 and TPH-gasoline at 68 ppb and TPH-diesel at 120 ppb in MW-4. With the exception of the 120 ppb TPH-diesel in MW-4, these low concentrations were below the most stringent Environmental Screening Level (ESL). The presence of gasoline and diesel/or diesel in MW-3 and MW-4 (down-gradient wells) and not in MW-1 and MW-2 (up-gradient wells) indicate an on-site source for the petroleum detected in groundwater.
 - Groundwater samples from the October 2007 sampling event did not indicate the presence of VOCs exceeding the ESL and MCL in the groundwater wells with the exception of PCE in MW-1 (26 ppb) and MW-4 (9.6 ppb) compared to the PCE ESL and MCL of 5 parts per billion (ppb). Trichloroethene (TCE) was detected in MW-1 (4.6 ppb) and MW-4 (2.3 ppb) below the ESL and MCL for TCE (5 ppb). The decreasing concentrations of PCE and TCE from MW-1 (up-gradient) to MW-4 (down-gradient) indicate an off-site, up-gradient source. However, the high concentrations of PCE in MW-1 and MW-4, without similar concentrations in MW-2 and MW-3, indicate the PCE in these two wells is likely from a local, up-gradient source separate from the impact associated with the regional groundwater plume.
 - PCE was detected in MW-2 (3.7 ppb) and MW-3 (3.9 ppb); these low detections below the ESL and MCL for PCE are likely attributable to the

regional groundwater plume associated with the San Fernando Valley (Crystal Spring Wellfield) NPL site.

- Toluene was detected at levels well below the ESL and MCL (150 ppb) in MW-2 (6.8 ppb), MW-3 (1.6 ppb), and MW-4 (24 ppb). These detections are likely attributable to a combination of on-site and off-site sources of petroleum.

Other VOCs were detected at concentrations significantly below their respective ESLs; MCLs were not established for these chemicals. These constituents were generally chloroform and its daughter products. Chloroform has a number of uses, most notably in dyes. However, chloroform was not listed in the MSDS sheets provided for the former on-site printer, and the low detections in groundwater were not expected to be attributable to an on-site source.

- The results of QORE's subsurface assessment supported QORE's conclusion that the documented historical gasoline service stations/fuel storage on the southwest and southeast portions of the subject property present *recognized environmental conditions* to the subject property.

Based on the results of QORE's subsurface assessment, the chlorinated solvent (PCE and TCE) detections in groundwater at the subject property indicated impact from one or more local up-gradient sources, as well as the regional groundwater plume associated with the San Fernando Valley (Crystal Springs Wellfield) NPL site. This finding confirmed that the up-gradient local regulated facilities including Mechanical Engineering Company, Mechanical Concepts, Inc. (Concepts), Nova Automotive (Nova) and Fleming Jacquet & Miller, Inc. (Fleming), and the San Fernando Valley (Crystal Springs Wellfield) NPL plume identified as suspect recognized environmental condition were *recognized environmental conditions* to the subject property.

As listed in Section 5.1, QORE identified several of the prior on-site tenants that were not considered to be a suspect *recognized environmental condition* as the companies did not appear to have utilized or stored significant quantities of chemicals. QORE based this conclusion on several factors including the name of the company, time period of occupancy, whether the company was listed on the regulatory database, information presented in prior reports and information on the sanborn maps. The results of the Phase II subsurface assessment further supports the conclusion that these prior occupants of the subject property did not present a suspect *recognized environmental condition*.

- The on-site improvements were constructed prior to 1979 and may contain damaged lead-based paint. QORE understands that demolition of the buildings is planned and future occupancy is not expected. If manual demolition (hand scraping, blowtorching, etc.) of the subject property buildings occurs, a demonstration that the paint does not contain lead will be warranted, or JPI can assume the paint contains lead and treat it accordingly.

- QORE conducted a limited asbestos survey of the subject property that identified the presence of asbestos in flooring and wall and ceiling systems. Based on the presence of confirmed asbestos-containing materials (ACM) and QORE's understanding that the subject property buildings are to be demolished, asbestos is considered to be a *business environmental risk* to the subject property due to the cost of asbestos abatement. The asbestos survey was not comprehensive and should not be relied upon in preparation of renovation or demolition projects. Prior to demolition/renovation activities or other activities that could potentially disturb suspect ACM, additional sampling and analysis of the materials using protocols specified in the AHERA should be performed. Alternatively, the material can be assumed to contain asbestos and treated accordingly. Future activities that involve the disturbance or removal of confirmed or suspect ACM are required to be conducted in accordance with the NESHAP and other applicable local, state, and federal regulations.
- According to the *EDR Radius Map with Geocheck, 465 Los Feliz*, Los Angeles County is located in EPA Radon Zone 2 (average indoor level between 2 pCi/L and 4 pCi/L). For properties in EPA Radon Zone 2, JPI's internal policy requires that, if a radon mitigation system is not included in the building design, radon testing of the residential structures must be conducted after construction.
- QORE conducted assessments of lead-in-drinking water, wetlands, and air emissions in accordance with the JPI/GECRE scope of work. No *business environmental risks* associated with the scope of work issues were identified by QORE.

QORE has performed a Phase I and II ESA and Additional Services of 465 Los Feliz, located at 435 to 465 West Los Feliz Road and 434 to 450 Fernando Court in Glendale, Los Angeles County, California in general conformance with the scope and limitations of the GECRE scope of work, the JPI MECA and ASTM Practice E 1527-05. Exceptions to, or deletions from, this practice are described in Section 10.0 of this report.

Based upon the information obtained, as reflected in this report, this assessment has revealed evidence of *recognized environmental conditions* in connection with the subject property:

- The presence of potential USTs, and petroleum detections in groundwater at the subject property indicating impact from former on-site gasoline service stations/fuel storage activities; and
- The presence of chlorinated solvent (PCE and TCE) detections in groundwater at the subject property indicating impact from one or more up-gradient sources, as well as the regional groundwater plume.

QORE recommends trenching on the southwestern portion of the subject property in an attempt to locate USTs or material soil impact associated with former USTs. QORE recommends that the three subsurface anomalies identified on the southeastern portion of the subject property be further assessed, even though only two were considered to be potential USTs. If USTs, buried features and/or impacted soil is identified, they should be removed in accordance with state and federal regulations.

One and possibly more clarifiers may be present on-site. Local regulations require that the removal of the clarifiers be permitted through the Glendale Fire Department. QORE recommends that the clarifiers be removed prior to redevelopment of the subject property in accordance with applicable regulations. QORE notes that there is potential for localized soil impact in the vicinity of the clarifiers. This potential soil impact is not expected to be significant because the use of the clarifiers appears to have been restricted to food processing companies. If such impact is identified during redevelopment activities, the impacted soil should be disposed in accordance with local, state, and federal regulations.

QORE identified prior activities that utilized petroleum substances and may have resulted in localized soil impact. If such impact is identified during redevelopment activities, the impacted soil should be disposed in accordance with local, state, and federal regulations.

QORE does not recommend additional assessment of the chlorinated solvents detected in groundwater. Based on the low concentrations detected and that groundwater was noted during QORE's assessment to be 48 to 52 feet bgs, the detected concentrations are not considered to present a risk to future occupants of the subject property. If JPI's development plans result in excavation activities that will require dewatering activities, JPI should include sufficient budget to treat the groundwater prior to discharging or to obtain a permit from the city to discharge into the sanitary sewer.

QORE's work was conducted in general accordance with proposal D07-2022, dated September 20, 2007; proposal D07-2042, dated October 10, 2007; the MECA between JPI and QORE, dated December 2, 2004; and the GECRE Scope of Work Guidelines for Environmental Due Diligence. Terms and conditions pertaining to this project are those established in QORE's proposal, the JPI MECA, and the GECRE Preferred Provider Agreement for Environmental Services dated April 2, 2001.

QORE has performed this report for the sole and exclusive use and reliance by JPI, GE Capital Corporation and any and all holders of a note or notes secured by a mortgage, deed of trust or deed to secure debt encumbering the subject property, and their respective affiliates, designates, successors and assignees, rating agencies, prospective bond holders and bond holders subject to the terms and conditions agreed upon between QORE and JPI and between QORE and GECRE. This document may not be suitable for the needs, purposes, or objectives of others. As such, reliance by other parties on the contents of this document is not granted, and any such reliance shall be at the sole risk of the user and at no liability to QORE. If other parties wish to rely on this report, please have them contact QORE so that a mutual understanding and agreement of the terms and conditions for QORE's services can be established prior to their reliance upon this information. Deviations or deletions from the scope of work were not intentionally made. This report was prepared in general accordance with the formats provided in the GECRE Scope of Work Guidelines for Environmental Due Diligence and ASTM E 1527-05.

This summary is for convenience only and should not be relied upon without first reading the full contents of this report, including appendix materials.

2.0 INTRODUCTION

2.1 Purpose

The purpose of this Phase I ESA was to identify *recognized environmental conditions* in connection with the subject property. As defined by ASTM E 1527-05, "The term *recognized environmental conditions* means the presence or likely presence of any *hazardous substances or petroleum products* on a *property* under conditions that indicate an existing release, a past release, or a material threat of a release of any *hazardous substances or petroleum products* into the structures on the property or into the ground, groundwater, or surface water of the *property*. The term includes *hazardous substances or petroleum products* even under conditions in compliance with [environmental] laws. The term is not intended to include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies."

The term *historical recognized environmental condition* as defined by ASTM is an "environmental condition which in the past would have been considered a *recognized environmental condition*, but which may or may not be considered a *recognized environmental condition* currently." ASTM further defines a *historical recognized environmental condition* by stating "If a past release of any hazardous substances or petroleum products has occurred in connection with the property and has been remediated, with such remediation accepted by the responsible regulatory agency... this condition shall be considered a *historical recognized environmental condition*..."

The term suspect *recognized environmental condition* as used throughout this report is cited from Section 12.5 of ASTM E 1527-05. QORE uses this term for conditions that have a potential to be a *de minimis* condition, a *recognized environmental condition*, a *historical recognized environmental condition*, or not a *recognized environmental condition* for the subject property and requires further discussion as presented within the text of this report. Section 9.0 summarizes each of the known or suspect *recognized environmental conditions* associated with the subject property and provides our opinion of the impact a known or suspect *recognized environmental condition* on the subject property and whether or not the suspect *recognized environmental condition* is currently a *de minimis* condition, a *recognized environmental condition*, or a *historical recognized environmental condition*, based on site-specific characteristics.

ASTM E 1527-05 states that an ESA "meeting or exceeding" this practice and completed less than 180 days prior to the date of acquisition or intended transaction is presumed to be valid if the report is being relied on by the user for whom the assessment was originally prepared. The components of the practice that must be completed within 180 days include: interviews, searches for recorded environmental cleanup liens, the regulatory review, site visit and the declaration by the environmental professional responsible for the assessment. If these components were not completed within 180 days or if the report is to be used by a different entity than the user for whom the assessment was originally prepared, additional information is required to comply with the ASTM E 1527-05 practice.

2.2 Detailed Scope-of-Services

The scope of services was performed in general conformance with the ASTM E 1527-05 document *Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process*¹ and JPI-specified requirements (see Section 2.5).

The Phase I ESA consisted of a historical review of the subject property and area use, regulatory database review, assessment of the physical setting, subject property and area reconnaissance, and a report of QORE's findings, opinions, conclusions, and recommendations. This report was prepared using the report format specified in the GE scope of work modified to include additional information specified in ASTM E 1527-05. Other data gaps or deviations from ASTM E 1527-05, if applicable, are described in Section 10.0.

Subject Property and Area Use

Using selected sources of reasonably ascertainable public information, QORE reviewed the current and historical uses of the subject property. The Phase I ESA historical review extends back until 1940 or, for uses prior to that date, back to the time the subject property was undeveloped. Sources of historical use information relating to the subject property and its adjoining properties were acquired and reviewed according to the reasonable availability of the information, the time limits provided for data acquisition and review, as permitted, by the project schedule and cost, and QORE's judgment of the likely value of the information for indicating environmental conditions. Historical sources reviewed by QORE are listed in Section 11.0 and typically include local city directories, aerial photographs, and a topographic map. If available through the database provider, the historical sources reviewed also include Fire Insurance Maps.

Regulatory Status Review

QORE reviewed a report of select regulatory databases published for the local area to identify facilities potentially constituting a suspect *recognized environmental condition* in regard to the subject property. QORE reviewed the databases to identify recorded facilities located on, or in proximity to, the subject property using the ASTM E 1527-05 standard environmental record sources and recommended approximate minimum search distances.

QORE attempted to obtain additional information regarding listed facilities that, in its professional judgment, may constitute *recognized environmental conditions* in connection with the subject property. In addition, local agencies were contacted regarding recorded information, incidents, or activities of environmental concern relating to the subject property and its immediate environs.

Subject Property Physical Setting

QORE obtained and reviewed reasonably ascertainable published subject property information to characterize the physical setting of the subject property. Sources reviewed are listed in Section 11.0 of this report. If reasonably ascertainable, QORE

¹ ASTM E 1527-05 is incorporated by reference; QORE can assist the Client with obtaining a copy of this standard on request.

reviewed the current *USGS 7.5 Minute Topographic Map* showing the area on which the subject property is located. QORE reviewed one or more physical setting sources at the discretion of the environmental professional to obtain information about the geologic, hydrogeologic, hydrologic, or topographic characteristics of the subject property. Discretionary physical setting sources may have been sought if (1) conditions had been identified in which hazardous substances or petroleum products are likely to be present on-site or to migrate to the subject property from off-site sources and (2) more information is generally obtained, pursuant to local good commercial or customary practice.

Subject Property and Area Reconnaissance

The subject property reconnaissance consisted of field observations of the subject property and adjoining land areas by QORE personnel experienced in environmental site assessments. QORE observed and documented current uses of the subject property and indicators of hazardous substances, petroleum products, storage tanks, odors, pools of liquid, drums, containers, PCBs, heating and cooling systems, stains, corrosion, drains and sumps, pits, ponds, lagoons, stressed vegetation, wastes, wells, and septic systems. The area reconnaissance was performed on foot within areas that were reasonably accessible and at QORE's discretion by automobile along publicly accessible roads.

Additional Services

As requested by JPI, QORE conducted certain specified additional services in an attempt to identify *business environmental risk* associated with the subject property. As defined by ASTM E 1527-05, the term *business environmental risk* is a potential environmental condition or environmentally-driven financial impact that could materially affect the current or planned use of the subject property. These conditions are not necessarily limited to those environmental issues required to be assessed under ASTM E 1527-05. Rather, consideration of *business environmental risk* typically is associated with one or more JPI-specified, non-ASTM scope assessment activities such as described in Section 7.0 of this report.

QORE's services included assessment of the following JPI-specified non-ASTM *business environmental risks*: lead-based paint, asbestos, lead-in-drinking water, wetlands, radon, and air emissions in accordance with the JPI/GECRE scope of work.

Report

QORE has prepared this report, which includes the findings concerning known or suspect *recognized environmental conditions* and an opinion as to the potential impact those conditions would have on the subject property. Finally, this report concludes whether or not the assessment revealed *recognized environmental conditions* and provides recommendations, if appropriate.

2.3 Significant Assumptions

Information obtained from JPI, JPI's representative, individuals interviewed, and prior environmental reports was considered to be accurate unless QORE's reasonable inquiries clearly revealed otherwise.

Conditions observed were considered to be representative of areas that were not observed unless otherwise indicated.

The primary direction of groundwater flow was assumed to be dictated by topography, unless otherwise indicated by measurement of potentiometric surface or other quantifiable data. Additionally, the groundwater flow direction was assumed to control the distribution of impact, if present.

2.4 Limitations and Exceptions

The findings and opinions presented are relative to the dates the work was conducted and should not be relied on to represent conditions at later dates. The opinions included herein are based on information obtained during the assessment and QORE's experience. If additional information becomes available that may impact QORE's environmental assessment findings, QORE requests the opportunity to review the information, reassess the potential concerns, and modify QORE's opinions, if warranted.

This assessment included visual observations to identify obvious features or conditions indicative of *recognized environmental conditions*.

Although this assessment has attempted to identify *recognized environmental conditions*, QORE cannot eliminate all uncertainty as to *recognized environmental conditions* in connection with the subject property nor represent or warrant that the subject property contains no hazardous substances or petroleum products or other latent conditions beyond those identified through the scope of work identified herein. Other features, conditions, and constituents may have escaped detection due to: (1) the limited scope of this assessment, (2) the inaccuracy of public records, (3) the presence of undetected or unreported environmental incidents, (4) inaccessible areas, and/or (5) deliberate concealment of detrimental information.

Although this assessment has attempted to identify *business environmental risk*, potential *business environmental risk* may have escaped detection due to: (1) the limited scope of this assessment, (2) the inaccuracy of public records, (3) the presence of undetected or unreported environmental incidents, (4) inaccessible areas, (5) deliberate concealment of detrimental information, (6) the subjective nature of materiality to the user with respect to *business environmental risk*, (7) a lack of understanding of the future use of the subject property, and/or (8) the limited degree of the current state of knowledge for certain non-ASTM scope items.

QORE's professional services have been performed using that degree of care and skill ordinarily exercised, under similar conditions, by reputable environmental consultants undertaking similar studies and practicing in this locality during the same timeframe. No other warranty, express or implied, is intended or made with respect to this report or QORE's services. This assessment was not exhaustive and users of this report should consider the scope and limitations related to these services when developing opinions as to risks associated with the subject property.

This report presents an assessment of the subject property as defined by information provided by JPI, JPI's representative, or the Key Site Manager. QORE's findings, opinions, conclusions, and recommendations are based on the locations and boundaries

of the subject property as evident in the field and on maps or plats provided by JPI, JPI's representative, or the Key Site Manager.

2.5 Special Terms and Conditions

QORE's work was conducted in general accordance with proposal D07-2022, dated September 20, 2007; proposal D07-2042, dated October 10, 2007; the MECA between JPI and QORE, dated December 2, 2004; the GECRE Scope of Work Guidelines for Environmental Due Diligence and ASTM Practice E 1527-05. Terms and conditions pertaining to this project are those established in QORE's proposal, the JPI MECA, and the GECRE Preferred Provider Agreement for Environmental Services, dated April 2, 2001.

3.0 SUBJECT PROPERTY DESCRIPTION

3.1 Location and Description

The subject property was located at 435 to 465 West Los Feliz Road and 434 to 450 Fernando Court in Glendale, Los Angeles County, California 91204. The subject property was located on the west corner of the intersection of West Los Feliz Road and Gardena Avenue. A Site (Vicinity) Map and a Site Plan are included in Appendix A. A legal description for the subject property was provided by JPI and is included in Appendix E of this report.

The site visit was performed on September 28, 2007. The subject property encompassed approximately two acres of land and was improved with six vacant office/warehouse buildings with concrete and asphalt parking lots. Building 1, located on the southern corner of the subject property, was constructed in the late 1930s. The remaining on-site buildings were constructed in the 1950s and 1960s. The subject property was located in an area characterized by commercial office/warehouses, light industrial facilities, retail businesses, and single and multifamily residences.

While the site sloped gently to the southwest, it was generally level with no indication of areas of prior significant fill activities. West Los Feliz Road, along the southern boundary of the subject property, was excavated in the 1950s in order to pass below the west-adjointing railroad tracks. This created an approximate 20-foot drop from the western portion of the subject property down to street level; the eastern portion of the subject property was generally level with West Los Feliz Road as it graded upward to the east. No surface water, suspect wetlands, parklands, or sensitive habitats were noted on the subject property, as most of the subject property was covered by the building structures and the parking lots. According to information provided by EDR, based on the FEMA Flood Insurance Rate Map (FIRM) Community Panel Number 0650300000A, the subject property was in the area designated within the 500-year flood zone. The subject property was not located within the 100-year flood zone.

3.2 Physical Setting Source(s)

Physical setting sources specified in Section 11.0 of this report were reviewed to provide information about the geology and hydrogeology of the subject property.

3.2.1 Surface Drainage and Soil

Based upon the topographic map reviewed, the subject property sloped gently to the southwest toward the Los Angeles River, located approximately 3,140 feet southwest of the subject property (see the Site [Vicinity] Map, Appendix A). The subject property had an average surface elevation of approximately 445 feet above the National Geodetic Vertical Datum presented on the topographic map reviewed. Observation of the subject property topography corresponded with information presented on the topographic map.

Review of the referenced sources indicated soil at the subject property was generally mapped as the Hanford association, two to five percent slopes. The Hanford association consists of deep, well-drained, gently sloping soils of alluvial fans. Permeability is moderately rapid, and the soils are slightly acid to mildly alkaline.

Review of the referenced sources indicated that the subject property was located on unconsolidated alluvial sediments deposited as part of the Los Angeles River Narrows. These deposits are generally composed of sandy silt, silty sand, gravelly sand, sandy gravel, and granitic cobbles.

QORE's subsurface investigation (further discussed in Section 7.15) encountered sandy or silty clay from the ground surface to approximately seven to 13.5 feet bgs, followed by interbedded layers of silty clay, sandy clay, clayey sand, sand, gravel, and sand with gravel and cobbles to depths of 70 feet bgs.

3.2.2 Groundwater

Review of referenced sources indicated the water-bearing deposits in the area of the subject property are part of the Gaspar Aquifer. Recharge to the aquifer is through surface infiltration of precipitation and from surface bodies of water. According to the referenced sources, shallow groundwater in the vicinity of the subject property typically is encountered 40 to 45 feet below ground surface (bgs). According to the referenced sources, the nearest water well to the subject property was approximately 4,000 feet to the east and was drilled to a depth of 268 feet bgs. Depth to groundwater was not provided for this water well.

Shallow groundwater generally flows in directions subparallel to the ground surface slopes and under the influence of gravity toward points of discharge such as creeks, swamps, drainage swales, or pumped groundwater wells. Based upon review of the topographic map, it appeared that the primary groundwater flow direction in the uppermost water-bearing unit across the subject property was generally to the southwest, toward the Los Angeles River. However, review of regulatory files for facilities in the vicinity of the subject property indicated groundwater flowed to the south-southwest.

No groundwater monitoring wells, water supply wells, drywells, or irrigation wells were observed or reported to be present on the subject property. Previous subsurface assessments (further discussed in Sections 5.1 and 5.3) did not encounter groundwater in borings installed to depths of up to 55 feet bgs. However, groundwater was encountered at approximately 48 to 52 feet bgs during QORE's subsurface assessment (further discussed in Section 7.15). According to Mr. David Stensby of U.S. EPA Region

IX, shallow groundwater has been depressed due to drought conditions in the area of the subject property.

4.0 USER-PROVIDED INFORMATION

ASTM E 1527-05 requires that the environmental professional request from the user of the Phase I ESA, JPI, certain information (discussed below) concerning the subject property that will help identify the possibility of *recognized environmental conditions* in connection with the subject property or to request from the user the names of other individuals who can provide this information.

ASTM E 1527-05 assigns to JPI or its representative the responsibility to provide the environmental professional with information pertaining to environmental liens or AULs² (including institutional controls, physical or engineered controls, land use restrictions, restrictive covenants, easements, etc.) applicable to the subject property, whether recorded or not. If documentation regarding environmental liens and AULs is not provided and QORE's scope of work does not include obtaining environmental lien and AUL records, lack of information pertaining to environmental liens and AULs is considered to be a Data Gap and will be discussed in the Phase I ESA.

If JPI or its representative is aware of specialized knowledge or experience that is material to the identification of *recognized environmental conditions*, or if it has actual knowledge that the purchase price of the subject property is significantly less than the purchase price of comparable properties, ASTM E 1527-05 assigns to JPI the obligation to communicate that information to the environmental professional prior to the subject property reconnaissance. ASTM E 1527-05 requires that an explanation of a significant decrease in purchase price be provided in writing.

ASTM E 1527-05 assigns to JPI or its representative the responsibility to inform the environmental professional of the reason it wants the Phase I ESA performed and to provide commonly known, reasonably available information about the subject property that is material to *recognized environmental conditions*. Absent information to the contrary, the purpose for assessment is assumed to be in preparation for a *commercial real estate transaction*.

As part of QORE's engagement to conduct this work, this information was requested from JPI or its representative. In addition, QORE has requested from JPI or its representative helpful documents such as those specified in Section 10.8 of ASTM E 1527-05 and as listed in Appendix E. Finally, QORE inquired whether JPI or its representative was aware of (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the subject property; or (3) any notices from governmental entities regarding possible violations of environmental laws or possible liabilities relating to hazardous substances or petroleum products.

² See ASTM E2091 for additional information about *activity and use limitations* (AULs), their use and function, and standard means to check for existence and evaluate compliance with these controls. QORE can assist the Client with obtaining a copy on request.

4.1 Title Records

JPI or its representative did not provide QORE with title records for review. QORE was not engaged by JPI to secure a title report as part of the Services. A preliminary title report, including a legal description of the subject property but no chain-of-title information, was provided by JPI. Based on the extensive historical information available for the subject property and in consideration that an environmental lien/AUL search was obtained (see Section 4.2), the absence of a chain of title report is not considered to be a data gap or material to this ESA. Excerpts are included in Appendix E.

4.2 Environmental Liens or Activity and Use Limitations

No information regarding environmental liens, AULs, or governmental notification relating to past or recurrent violations of environmental laws with respect to the subject property was reported to QORE by JPI or its representative. However, at the request of JPI, QORE obtained an environmental lien/AUL search from Banks Environmental Data, Inc. (Banks) dated October 3, 2007. According to the Banks report, no documented environmental liens or AULs since 1985 were indicated. According to Banks, it has been their experience that environmental liens were routinely documented in land transactions beginning after 1985 and that prior to that time, a search of title documents may not have provided consistently useful information for a reasonable cost.

QORE also considered its historical and regulatory reviews in assessing whether an environmental lien or AUL was likely to apply to the subject property. While past uses were considered to be suspect recognized environmental conditions, most were conducted prior to governmental regulations that would have resulted in environmental liens and documented AULs. QORE's regulatory review did not identify regulated activities or listings indicating prior releases on the subject property.

4.3 Specialized Knowledge

JPI provided prior assessment reports to QORE as discussed in Section 5.3. Other than information provided in these reports, no specialized environmental knowledge or experience concerning the subject property was reported to QORE by JPI or its representative. Information from these documents is presented throughout this report.

4.4 Valuation Reduction for Environmental Issues

No information indicating that the purchase price of the subject property was significantly less than the purchase price of comparable properties was reported to QORE by JPI or its representative.

4.5 Commonly Known or Reasonably Ascertainable Information

No commonly known or reasonably ascertainable information about the subject property within the local community that was material to *recognized environmental conditions* in connection with the subject property was reported to QORE by JPI or its representative. No commonly known or reasonably ascertainable information concerning the subject property was known by QORE other than information presented in the text of this report.

4.6 Owner, Property Manager, and Occupant Information

JPI provided contact information for the owner to the subject property. QORE contacted Mr. Guy Devorris, who stated he was an owner of the subject property and would provide access to the subject property buildings.

4.7 Reason for Performing Phase I

QORE understands this assessment was required prior to the proposed acquisition of an interest in the subject property. QORE understands that the purpose of this assessment was to complete an evaluation that meets the applicable standard of "all appropriate inquiry into the previous ownership and uses of the subject property consistent with good commercial or customary practice" with the objective of assembling documentation that may help to support one of the threshold criteria for satisfying one or more defenses to CERCLA liability (LLPs³) and to assist JPI in understanding potential environmental conditions that could materially impact the operation of the business associated with the subject property (*business environmental risk*).

5.0 HISTORICAL RECORDS REVIEW

Historical sources specified in Section 11.0 of this report were reviewed to assess on-site and nearby historical activities discussed in the following sections. A 2006 aerial photograph of the subject property is included in Appendix A of this report, and additional aerial photographs, Sanborn maps, building permits, and fire department records reviewed are included in Appendix C and Appendix D.

³ Innocent landowner, contiguous property owner, or bona fide prospective purchaser, see CERCLA (1980), SARA (1986), "Lender Liability Act" (1996), and "Brownfields Amendments" (2001).

5.1 Historical Use Information on the Subject Property

Table of Historical Subject Property Usage			
Current Use/Location	Prior Use	Source	Comments
Northwest portion: Vacant lot (Rear entrances to Buildings 1 and 2) 450 Fernando Court	Two single-family residences and two water tanks Prior to 1908 to late 1910s Two single-family residences and associated outbuildings Late 1910s to mid-1920s National Ice Company (ice plant) Mid-1920s to late 1930s California Consumers Late 1930s to early 1940s Quality Col-Pak (apple processing) Early 1940s to late 1970s Vacant lot Late 1970s to mid-1990s Various tenants (including International Cargo Services, America Shipping, Pico Windsor Corporation, Mr. Potato, Nichols Enterprises, Cross Town Towing, Monarch Plumbing, M&D Supply, Byron's Auto, and Pyramid Marble) Mid-1990s to 2005 Vacant lot 2005 to present	A, CD, I, PR, T, GFR, HFI	National Ice Company, Quality Col-Pak, and Byron's Auto present suspect <i>recognized environmental conditions</i> to the subject property as discussed below.

Table of Historical Subject Property Usage			
Current Use/Location	Prior Use	Source	Comments
Northeast portion: Vacant building (Building 4) 434 Fernando Court	Single-family residences and associated outbuildings Prior to 1908 to early 1960s Expansion of Quality Col-Pak Early 1960s to late 1970s Centry Service Company Late 1970s to early 1980s Ludford Fruit Produce Early 1980s to mid-1980s Vacant building Mid-1980s to mid-1990s Abbey Moving & Storage, Allied Van Lines, Security Moving and Storage Mid-1990s to 1998 Glendale Rotary Offset Printing 1998 to 2005 Vacant building 2005 to present	A, CD, I, PR, T, GFR, HFI	Glendale Rotary Offset Printing presents a suspect <i>recognized environmental condition</i> to the subject property as discussed below.

Table of Historical Subject Property Usage			
Current Use/Location	Prior Use	Source	Comments
Southeast portion: Vacant buildings (Buildings 3, 5, and 6) Historical addresses 435 to 449 West Los Feliz Road	Vacant lot Prior to 1908 to mid-1920s	A, CD, I, PR, T, GFR, HFI	*The 435 to 449 West Los Feliz Road addresses do not appear to be used after the late 1950s. Activities still occurred on the southeast portion of the subject property under the 465 West Los Feliz Road address. Since it is not feasible to accurately determine which activities at the 465 West Los Feliz Road address occurred on the southeast portion of the subject property, the tenants listed at 465 West Los Feliz Road are discussed as part of the "southwest portion" of the subject property below. Richardson Oil Company and E J Bartel were listed on the Historical Auto Stations regulatory database. Richardson Oil Company, Campbell-Land-Pierce, E J Bartel, Pratty Rubbish Service, and Turner-Yourec Press present suspect <i>recognized environmental conditions</i> to the subject property as discussed below.
	A florist and single-family residence Mid-1920s		
	Richardson Oil Company (service station), T&W Poultry Market, Cummings & Harris, and Campbell-Land-Pearson Inc. (used cars) Mid-1920s to early 1930s		
	E J Bartel (service station) and Cummings & Harris Early 1930s to mid-1950s		
	Blankenship Lumber and Door Mid-1930s to mid-1950s		
Various tenants (including Blankenship Lumber and Door, antique dealer, cabinet maker, a sheet metal company, Pratty Rubbish Service, Western Plastics, Pacific Piano Supply Company, Western Heat and Air Conditioning, Carcook Company, Morrow-Richards Company, and Turner-Yourec Press) Late 1930s to late 1950s			
See Southwest Portion* Late 1950s to present			

Table of Historical Subject Property Usage			
Current Use/Location	Prior Use	Source	Comments
Southwest portion: Vacant buildings (Buildings 1 and 2) 465 West Los Feliz Road	Tropico Lumber Company Planing Mill Prior to 1908 to late 1910s	A, CD, I, PR, T, GFR, HFI	Based on the 1970 Sanborn map and the continuous presence of food manufacturers on-site, the subject property buildings were almost entirely occupied by food production and storage buildings during the time period Mason Electric, Bob Welch Electric, and V.V.V. Electric Company were listed on-site. These companies likely occupied limited office space for local electricians. A Mason Electric Company existed in the Los Angeles area at the time of QORE's assessment. QORE contacted this company, and the receptionist stated the current Mason Electric Company had not historically been located in Glendale. Melody Baby Laundry was listed at 447B West Los Feliz Road on a handwritten note from 1955 in the regulatory records for the subject property. The only other information on the page was "Clarifier?". Other information was not present in the regulatory file to suggest a clarifier was used by Melody Baby Laundry. Based on the name of the business, this was likely a diaper service and does not present a suspect <i>recognized environmental condition</i> to the subject property. Tropico Lumber Company Planing Mill, Glenn-Webb Company, Chef's Select, Mountain Valley Water Company, and Leslie Foods present suspect <i>recognized environmental conditions</i> to the subject property as discussed below.
	Single-family residence Late 1910s to early 1920s		
	Beverage Manufacturer (various names include General Brewing Company, Park Beverage Company, Comalt Company, and Lucky Lager Brewing Company) Early 1920s to early 1950s		
	Al Fresco Café and Christo Dulos Antiques Early 1930s		
	Glenn-Webb Company Early 1950s to late 1970s		
	Melody Baby Laundry Mid-1950s		
	Mason Electric and food manufacturers (including Leslie Food Sales and Wilsey Foods) Late 1970s to mid-1980s		
	Various tenants (including Mason Electric, Bob Welch Electric, Chaci's Ice Cream, Chef's Select, Ed Man Furniture, Tetracolor, V.V.V. Electric Company, Casey Foods, Green Life International Cargo, Han's Pool Supply, Meyer and Sons Freight Systems, Paper Supply Company, and Mountain Valley Water) Mid-1980s to mid-1990s		
	Various tenants (including Pacific Processing, Art & Oils for Less, Jamai Spices, Art Construction Studio, Southland Bread Distribution, L.A. Daily News, American Bakery Products, Ray Pierce Productions, and BTSP-TMM) Mid-1990s to 2005		
	Vacant buildings 2005 to present		

A - Aerial Photographs CD - City Directories GFR - Government File Reviews I - Interviews
 HFI - Historical Fire Insurance Maps PR - Previous Report T - Topographic Map

Discussion

QORE obtained an Environmental Lien/AUL Search for the subject property from Banks dated October 3, 2007. No documented environmental liens or AULs since 1985 (liens typically began being filed in the mid-1980s) were indicated on the information provided. According to the environmental lien/AUL search, Urban Housing Alliance, LLC was the owner of the subject property at the time the search was conducted. The environmental lien/AUL Search is included in Appendix C of this report.

QORE obtained information documenting prior conditions at the subject property from several sources including prior reports (Phase I ESAs, subsurface assessments and geotechnical investigations), regulatory files and standard historical sources. Phase I ESA reports reviewed included a 2004 EP Associates (EP) Phase I ESA and a 2005 EP Addendum Phase I ESA. QORE obtained information from numerous regulatory files and the previous consultants from the Glendale Fire Department, City of Glendale Building Department, and various state agencies. QORE also obtained information from review of historical aerial photographs, Sanborn Fire Insurance Maps, historical city directories, and a topographic map.

Subsurface assessments provided to QORE included a 1997 geophysical survey (using ground penetrating radar [GPR] and/or electromagnetic devices to identify subsurface structures such as USTs or pipe chases) which was included in the 2004 EP ESA, a 2004 TRAK Environmental Group (TRAK) geophysical survey and subsurface soil assessment, a 2004 Geosystems, Inc. geotechnical assessment, and a 2005 EP geophysical survey and subsurface soil assessment.

The 1997 geophysical survey included the northwest parking lot on-site and another location that did not appear to be part of the subject property. The 2004 TRAK assessment included: a geophysical survey of the southeast portion of the subject property; seven soil borings inside Building 4 and in the exterior storage area of Building 4 (A-series and B-series borings); 17 soil borings on the southeast parking lot (C-series borings); eight soil borings on the southwest side of Building 6 (D-series borings); a boring near a compressor on the south side of Building 1 (boring E1); and 11 borings on the northwest portion of the subject property (F-series borings). The 2005 EP assessment included: a geophysical survey of the western half of the parking lot northeast of Building 1; 18 soil borings within the geophysical survey area; and four soil borings inside Building 1 (GP-series borings).

The TRAK Geophysical Survey identified three subsurface anomalies in the southeast portion of the subject property. Significant soil contamination was not identified during the previous subsurface assessments. Groundwater was not encountered during the previous subsurface assessments. QORE has summarized the prior reports in Section 5.3. QORE presents information obtained from the referenced sources by area of the subject property in the following paragraphs.

The low-level contamination reported during the previous assessments was compared by QORE to EPA Region 9 Preliminary Remediation Goals (PRGs) for residential soils. TPH does not have a PRG; therefore, QORE compared the reported TPH results to a LARWQCB UST Closure guidance document. QORE also compared the low-level soil contamination to California RWQCB Environmental Screening Levels (ESLs) where applicable. ESLs are another guidance criteria for the state of California. The

constituents detected in analysis of soil samples during the prior assessments at the subject property did not exceed the applicable PRGs or ESLs.

Suspect *recognized environmental conditions* identified in the table above included the occupants and/or uses presented below discussed by approximate quadrants (northwest, northeast, southeast, and southwest) as presented in the table above. A Historical Site Plan, included in Appendix A, depicts the approximate locations of the historical tenants on the subject property. On the Historical Site Plan, red dashed lines indicate former on-site structures, and dashed green lines indicate approximate areas of geophysical surveys.

Northwest Portion

National Ice Company was located on the northwest portion of the subject property from the mid-1920s to late 1930s. A building permit from 1924 indicated the installation of a gas pump at the National Ice Company facility, although the use and location were not provided. The 1925 Sanborn map indicated an "oil house" on the northeast corner of the ice plant building. The oil house (which appeared to be relatively small in size) was likely a storage room for the lubricants used by machinery in the plant. The oil house may have contained drums, ASTs, or potentially a UST and the previously mentioned gas pump. The geophysical survey of the northwestern parking lot in 1997 did not identify the presence of anomalies consistent with a UST in this area. The former location of the ice plant structure was a paved parking area with an office trailer for Pyramid Marble at the time of QORE's site visit. The lack of an identified UST in the area of the former oil house indicates that petroleum storage would have been above ground. Soil sampling has not been conducted in this area. It is QORE's opinion that based on 1) the redevelopment of the site which likely disturbed and redistributed soil in this area, 2) the time elapsed since oil storage (over 80 years), and 3) that groundwater is located at depths of at least 48 to 52 feet bgs, the oil storage is not considered to present a *recognized environmental condition* to the subject property. However, there is potential for localized soil impact in the vicinity of the former oil house. If such impact is identified during redevelopment activities, the impacted soil should be disposed in accordance with local, state, and federal regulations.

Quality Col-Pak was an apple processing plant located on the subject property from the early 1940s to late 1970s. This facility initially occupied the building vacated by National Ice Company, and through expansions occupied the entire northern portion of the subject property by 1970. A 9'x3'x3' clarifier was noted in building department records in 1959 at the Quality Col-Pak facility, though the specific location was not provided. The records indicated the clarifier was used for apple processing waste and floor and equipment wash water before being discharged to the sanitary sewer. A clarifier used for food processing waste is not considered a suspect *recognized environmental condition* to the subject property.

A permit dated 1950 indicated a 1,000-gallon gasoline UST was installed for Quality Col-Pak, and a 1962 permit indicated this UST had been removed. However, a third permit indicated a 1,000-gallon "flammable liquid" UST (likely gasoline or diesel) was installed in 1975. Removal of this second 1,000-gallon UST was not documented, indicating the UST may be present at the subject property. The presence of the former and possible current UST is considered a suspect *recognized environmental condition*. Based on the building configuration on the 1970 Sanborn map, the USTs were likely located along the northern boundary of the subject property, north of the current Building 1. No USTs

were identified in this area on the Sanborn Map. As previously discussed, the geophysical survey of the northwestern parking lot in 1997 did not identify the presence of anomalies consistent with a UST.

Eight soil borings installed to depths of 10 feet bgs by TRAK (F-1 through F-8) along the northwestern property boundary in 2004 did not encounter a subsurface feature. The eight borings appeared to be installed in the area where a UST would have been expected to be located. The borings were installed close enough to one another that if a 1,000-gallon UST was present where the borings were installed, it likely would have been encountered. However, if the tank would have been located to the northwest of the line or to the southwest of the line, oriented in a direction of southwest to northeast, the tank could have been parallel to the borings and not detected. Given that a specific tank location and orientation was not provided, that the borings were depicted in the figure in a line, and that the subject property configuration has changed since the tank was reportedly present, it is possible that a UST may remain in the vicinity of that location. Samples were collected in four borings from two to four feet bgs and in the remaining four borings from six to 10 feet bgs. The sample analysis did not indicate the presence of TPH in the soil samples; the soil samples were not analyzed for VOCs. QORE noted a small area on the northern portion of the subject property that was not assessed by the geophysical survey or soil borings and that was not covered by buildings during the installation of the UST in 1975; however, this area appeared to be the main entrance and exit for the Quality Col-Pak facility and is unlikely to be the location of the UST indicated from review of the permits.

Based on QORE's review, the 2004 TRAK assessment borings were installed at locations along the northern boundary of the subject property which, based upon the configuration of the former buildings, would have been the most likely location of the permitted USTs. QORE notes that the soil samples were collected from intervals of two to four feet which would have been expected to detect residual impact from above ground dispensers associated with the UST system in this area. QORE notes that soil samples were also collected from the six to 10 feet bgs interval which would have been expected to detect residual impact from the reported USTs. QORE is of the opinion that the assessment appropriately addressed suspect findings in this area and the analysis of soil samples did not identify impact to soil along this portion of the subject property.

Based on 1) the results of the 1997 GPR survey, 2) the results of the 2004 TRAK subsurface assessment, and 3) depth to groundwater, the permitted USTs associated with Quality Col-Pak are not considered to present a *recognized environmental condition* to the subject property. However, there is potential for localized soil impact in northwestern portion of the subject property from former on-site activities in this area. If such impact is identified during redevelopment activities, the impacted soil should be disposed in accordance with local, state, and federal regulations.

Byron's Auto was a subject property tenant from approximately 1997 to 2005 (Buildings 1 and 2). In 2004, EP observed staining in the automobile service bay in the vicinity of a parts washer, air compressor, and used oil drums. EP also referred to the parts washer as a "parts-cleaning above ground solvent tank". These features were depicted on EP's site plan and are shown to be in the vicinity of borings F-10 and F-11 discussed below. It has been QORE's experience that parts washers used by automobile service companies typically consist of a self-contained cleaning system comprised of a drum (typically 30 to 55-gallons in size) which is used to store a petroleum based solvent such

as mineral spirits with a removable sink and hand sprayer. Solvent from the drum is recycled until replaced by the waste disposal company, in this instance, Safety-Kleen. EP's interviews with Mr. Byron Rosas of Byron's Auto indicated waste solvent, oil, and oil filters were removed from the subject property by Safety-Kleen. EP did not report indications of improper waste disposal associated with Byron's Auto.

QORE did not observe substantial staining in the area of the former Byron's Auto at the time of this assessment. Subsurface assessment in 2004 by TRAK (F-10, F-11) included two hand-auger borings near the parts washer, air compressor, and used oil drums. The soil samples collected were analyzed for TPH-diesel, TPH-oil, and VOCs. The boring on the north side of this area (F-10) indicated low levels of TPH-oil (362 ppm compared to 1,000 ppm PRG and 500 ppm ESL) at one foot bgs; the boring on the west side of this area (F-11) indicated low levels of TPH-oil (61 ppm compared to 1,000 ppm PRG and 500 ppm ESL), ethylbenzene (2 ppb compared to 400,000 ppb PRG and 3,300 ppb ESL), and xylenes (14 ppb compared to 480,000 ppb PRG and 2,300 ppb ESL) at one foot bgs. Other TPH constituents or VOCs were not detected in the two hand-auger borings, including a four foot bgs sample collected from F-10.

Based on QORE's review, the 2004 TRAK assessment borings were installed in service bays at locations within the vicinity of the former parts washer, air compressor, and used oil drums that would have been the most likely location to detect material impact from these features and operations at Byrons. QORE notes that the soil samples were collected from intervals of one and four feet which would have been expected to detect material residual impact, if any, from these features. As indicated above, impact in shallow soil was detected, further supporting the conclusion that the soil samples were collected in locations where chemicals were stored and spills occurred and the most likely location to detect material impact. Additionally, the impact detected was petroleum (TPH), as is typical of parts washers, and not chlorinated solvents. A deeper sample from this location did not indicate impact. QORE is of the opinion that the assessment appropriately addressed suspect findings in this area from Byron's Auto and the analysis of soil samples did not identify material impact to soil in this area. QORE considers the detected presence of petroleum constituents at concentrations below regulatory screening levels to be a *de minimis* condition.

Based on 1) the conditions reported by the EP Phase I ESA, 2) QORE's on-site observations, 3) dates of operations (1997 through 2005), 4) the results of the 2004 TRAK subsurface assessment, and 5) depth to groundwater, Byron's Auto is not considered to present a *recognized environmental condition* to the subject property. However, there is potential for localized soil impact in the former Byron's Auto service bays. If such impact is identified during redevelopment activities, the impacted soil should be disposed in accordance with local, state, and federal regulations.

Northeast Portion

Glendale Rotary Offset Printing occupied Building 4 from late 1997 to 2005. In 2004, EP observed storage of new and spent solvents and inks in various sizes of containers and empty 55-gallon drums stored in the fenced area south of Building 4. This area is depicted on QORE's Historical Site Plan as "Q". Drum storage was also indicated by EP to be located in a storage area at the northern corner of the building. An "indirect waste receptor drain/container" was identified on the floor in the film development room of Building 4 by EP. At the time of QORE's assessment, ink staining was observed on the

concrete floor in the area of the former printing presses inside Building 4. QORE did not observe stains elsewhere inside Building 4 or in the exterior storage areas.

According to interview information reported by EP, Glendale Rotary Offset Printing purchased the subject property in 1981 and rented the buildings to other tenants until Glendale Rotary Offset Printing moved into Building 4 in 1998. Glendale Rotary Offset Printing was listed on the HAZNET regulatory database from 1997 to 1999 for generation and disposal of photochemical and photo processing waste. The HAZNET listing did not identify the use of chlorinated solvents. Additionally, neither QORE nor EP identified a RCRA hazardous waste generator listing for this facility during the regulatory research, which would be expected if chlorinated solvents were used at Glendale Rotary. MSDS sheets and the hazardous materials inventory maintained by the Glendale Fire Department for this facility included various inks, oils, and solvents; chlorinated solvents were not included in the materials listed. An inspection conducted by the Glendale Fire Department in 2000 listed several waste storage violations including storing waste inks and oils beyond 180 days, lack of secondary containment for drums stored outside, and leaking containers stored outside. Violations after 2000 were not noted.

Information obtained from a Southern California-specific document prepared by the Institute for Research and Technical Assistance for the DTSC found on the internet discussing printers indicated the primary solvents used in the printing industry included mineral spirits, methyl ethyl ketone, toluene, xylene, glycol ethers, terpenes, heptane, and hexane. QORE's research also identified PCE, methyl isobutyl ketone, and 1,1,1-trichloroethane as solvents potentially used in the printing industry generally from the 1970's to the present. MSDS sheets provided by the former on-site printer in 2004 indicated the cleaning solvents used at the subject property were generally alcohol-based, with the exception of one petroleum-based cleaner. The information provided in the 2004 EP ESA did not identify chlorinated solvent use by the on-site printer at that time. Based on the limited length of time the printer was located on-site (late 1997 to 2005), that the most common chemicals used are petroleum based solvents, and that data indicates the use of petroleum based solvents in 1997, 1998, 1999 and 2004, it is likely that the cleaning solvents used for the remaining years were also petroleum based. Review of the information provided does not indicate that Glendale Rotary (operating from 1997 to 2005) used chlorinated solvents at the subject property.

Subsurface assessment in 2004 by TRAK included borings to depths of three to 11 feet bgs on the interior of Building 4 near a printing press and the drain in the film development room, on the exterior of the building near the compressors and solvent storage on the north side of Building 4, and three borings in the drum storage area on the south side of Building 4 (A and B-series samples). The soil samples collected were analyzed for TPH-diesel (with the exception of boring A2), TPH-oil (with the exception of boring A2), and VOCs (with the exception of A2-5', B1-10', B2-6', and B3-10'). TPH-diesel, TPH-oil, and VOCs were not detected in the samples collected, with the exception of boring A1-4'. This boring was located near a printing press inside Building 4, and identified a TPH-oil concentration of 74 ppm, below the comparison criteria of 1,000 ppm.

Based on QORE's review, the 2004 TRAK assessment borings were installed at locations that would have been most likely to detect material impact from former activities and chemical storage areas associated with Glendale Rotary Offset Printing.

QORE notes that the soil samples were collected from depths of three to 11 feet bgs which would have been expected to detect material residual impact, if any, from these activities. Other than one low concentration of TPH, soil impact was not detected. QORE is of the opinion that the soil assessment appropriately addressed suspect findings in this area and the analysis of soil samples did not identify material impact to soil in this area. QORE considers the detected presence of petroleum constituents at concentrations below regulatory screening levels to be a *de minimis* condition.

To assess groundwater conditions at the up-gradient and down-gradient boundaries of the subject property in areas that were accessible to drilling equipment, QORE installed four groundwater monitoring wells. One of the four wells (MW-2) was located immediately south and topographically cross-gradient of a drum storage area used by Glendale Rotary Offset Printing. A second well (MW-4) was installed approximately 150 feet topographically down-gradient of MW-2 and the former Glendale Rotary Offset Printing facility. Groundwater was encountered by QORE at 48 feet to 52 feet bgs. The groundwater assessment and QORE's conclusions are discussed in Section 7.15. As indicated in Section 7.15, contamination detected in these wells was likely attributable to off-site sources or the former on-site gasoline service stations and not from Glendale Rotary Offset.

Based on 1) QORE's on-site observations and regulatory review, 2) the type of chemicals likely used at Glendale Rotary Offset, 3) depth to groundwater, 4) QORE's groundwater assessment results, 5) review of EP's Phase I ESA, and 6) the results of the 2004 subsurface assessment by TRAK, the former Glendale Rotary Offset Printing is not considered to present a *recognized environmental condition* to the subject property. However, there is potential for localized soil impact in the former printing press and drum storage areas. If such impact is identified during redevelopment activities, the impacted soil should be disposed in accordance with local, state, and federal regulations.

Southeast Portion

Richardson Oil Company (service station), Campbell-Land-Pierce (used cars), E J Bartel (service station), and Pratty Rubbish Service were located on the southeast portion of the subject property at various times from the mid-1920s to the mid-1950s. These four historical tenants may have used hazardous substances and petroleum products at the subject property during this time and are considered suspect *recognized environmental conditions*. A permit for the installation of a gas pump and tanks was issued to Richardson Oil Company in 1927. A small building labeled "gas & oil" was located on the southeast corner of the subject property in the 1950 Sanborn map which corresponds to the address and time period of E J Bartel. Additionally, a 1952 permit for Pratty Rubbish Service indicated a 10,000-gallon gasoline UST was installed at the subject property, presumably for refueling garbage trucks. Based on the size of the subject property and the numerous other tenants on-site during the same time period as Pratty Rubbish Service, it is unlikely that solid waste was stored or disposed on-site by this tenant. No records of removal of these USTs were identified during review of the referenced sources, presenting the potential for at least three USTs to remain on-site. During QORE's site visit, Buildings 3, 5, and 6 were located on the southeastern portion of the subject property. The eastern corner of the subject property and portions of the site to the southeast of these buildings were paved storage/parking areas. No evidence of former or current UST systems was observed by QORE in this area during the area reconnaissance.

In 2004, TRAK conducted a geophysical survey and subsurface assessment on the southeast portion of the subject property. The geophysical survey indicated the presence of three anomalies under the southeast parking lot. One anomaly was of a size and shape consistent with the 10,000-gallon UST installed by Pratty; the second anomaly was not readily identifiable and may be a small UST, buried utility vault, or abandoned piping. The third anomaly was reportedly a small metallic object buried directly beneath the asphalt pavement and is not likely a UST.

TRAK installed 25 soil borings (C and D-series) to depths of four to 10 feet bgs on the southeast portion of the subject property. Soil borings in the area of the anomaly presumed to be a large UST encountered refusal at four feet bgs, confirming the presence of a subsurface structure or UST. The borings installed by TRAK were analyzed for the full range of TPH (with the exception of D1-2' and D4-2', which were analyzed for TPH-gas), and select borings were analyzed for the presence of VOCs (C3-2', C5-4', C7-2', C9-4', C12-4', D1-2', and D4-2'). Laboratory analysis indicated the presence of TPH-diesel in one boring (27 ppm in C15-6' compared to the Soil Screening Level of 100 ppm) and TPH-oil in three borings (113 ppm, 438 ppm, and 761 ppm in C16-2', C12-4', and C15-6', respectively, compared to the Soil Screening Level of 1,000 ppm). These borings were generally located in close proximity to the location where the geophysical anomalies were identified.

Tetrachloroethene (PCE) was identified in two borings during the 2004 TRAK assessment: C12-4' at 35 ppb and D4-2' at 11 ppb. Deeper soil samples from these borings were not analyzed for VOCs. The concentrations detected were well below the California PRG for PCE in Residential Soil of 480 ppb and the ESL of 87 ppb. QORE has not identified a specific on-site source of PCE. However, PCE could have been present in a cleaning solvent used by one of the former subject property tenants. The subject property is also located within the boundaries of the Crystal Springs Wellfield NPL VOC plume as discussed in Section 6.1. QORE does not expect that the regional chlorinated solvent plume would be the source of the PCE detection in soil on-site. QORE considers the detected concentrations of PCE to be a *de minimis* condition. Based on the depth to groundwater and the low levels of PCE detected in soil, it is unlikely that the subject property has significantly contributed to the groundwater impact.

Based on QORE's review, the 2004 TRAK assessment borings were installed borings at locations that would have been most likely to detect material impact from the former gasoline service stations located on the southeastern portion of the subject property. QORE notes that the soil samples were collected from depths of four to 10 feet bgs which would have been expected to detect material residual impact, if any, from dispenser and surface spills and also to indicate impact from USTs. QORE notes that no samples were collected beneath the anomalies. If the anomalies are USTs, higher levels of contamination may be encountered in soils beneath the USTs.

To assess groundwater conditions at the up-gradient and down-gradient boundaries of the subject property in areas that were accessible to drilling equipment, QORE installed four groundwater monitoring wells. One of the four wells (MW-3) was located topographically down-gradient and within 75 feet of the anomalies. A groundwater sample from this well indicated a low concentration of TPH-diesel. The groundwater assessment and QORE's conclusions are discussed in Section 7.15.

Based on 1) the former presence of a gasoline service station and fuel storage facilities, 2) the presence of the two identified subsurface anomalies by GPR that could be USTs and a third subsurface anomaly by GPR of unknown origin, 3) that some soil samples were found to contain low levels of petroleum and that no soil samples were collected beneath the anomalies, and 4) that petroleum was detected in groundwater located in close proximity and topographically down-gradient of former fuel storage activities, QORE considers the former use of the southeastern property to be a suspect *recognized environmental condition*. QORE recommends further assessment of the three anomalies. If underground features are encountered, QORE recommends removal of the features and associated impacted soil, if any, in accordance with state and federal regulations.

QORE also notes that there is a potential for localized soil impact in this area from former subject property use as gasoline service stations. If such impact is identified during redevelopment activities, the impacted soil should be disposed in accordance with local, state, and federal regulations.

In addition to the gasoline service stations, QORE identified a former business, Turner-Yourec Press, to have been located southeast of Building 6 from the 1940s to the early 1950's. The Sanborn Map labeled this facility as "printing" indicating the facility conducted printing activities. This facility was demolished prior to construction of Building 6 in the mid-1950s. QORE was unable to obtain information concerning operations of this facility. Additionally soil sampling was not conducted within the footprint of the building by prior consultants. This facility was depicted on a Sanborn map with no additional details other than the footprint of the building.

As indicated previously, to assess groundwater conditions at the up-gradient and down-gradient boundaries of the subject property in areas that were accessible to drilling equipment, QORE installed four groundwater monitoring wells. One of the four wells (MW-3) was located topographically cross-gradient and within 50 feet of the former printer. Constituents expected to be associated with a former printer were not detected in the groundwater sample from this well at concentrations exceeding regulatory screening levels. The groundwater assessment and QORE's conclusions regarding groundwater are discussed in Section 7.15.

Based on 1) the time span since the last date of operation, 2) that the subject property was redeveloped which would have disturbed surface soils in this area, 3) depth to groundwater and 4) the results of the groundwater assessment, QORE does not consider the former Turner-Yourec Press to be a *recognized environmental condition* to the subject property. However, QORE notes that there is a potential for localized soil impact in this area from the former printer. If such impact is identified during redevelopment activities, the impacted soil should be disposed in accordance with local, state, and federal regulations.

Southwest Portion

Tenants of concern located on the southwestern portion of the subject property included Tropico Lumber, Leslie Foods, Chef's Select, Mountain Valley Water Company and the Glenn-Webb Company. Tropico Lumber Company Planing Mill and an associated 100-gallon oil UST were located on the southwest portion of the subject property in the 1908 Sanborn map. By 1919, this portion of the subject property was vacant land. Leslie Foods was a tenant of the subject property in the 1970s; Chef's Select and Mountain

Valley Water Company were tenants from the mid-1980s to early 1990s. Glenn-Webb Company was located on the subject property from the early 1950s to the late 1970s. Buildings 1, 2, 3, 5, and 6 were all addressed 465 West Los Feliz Road, and the spaces occupied by Leslie Foods and Mountain Valley Water Company were not specified. Chef's Select occupied Building 1 and Glenn-Webb Company appeared to occupy all five buildings. These companies were food production companies with the exception of Mountain Valley Water Company, which distributed bottled water.

Concerns associated with these facilities included the presence of USTs, WIP regulatory listings and the presence of clarifiers. These are each discussed as follows:

USTs/ASTs

Tropico Lumber Company Planing Mill and an associated 100-gallon oil UST was located on the southwest portion of the subject property in the 1908 Sanborn map. By 1919, this portion of the subject property was vacant land. A geophysical survey and subsurface soil assessment conducted by EP in 2005 did not identify the presence of USTs in the western portion of the parking lot between Building 1 and Building 6. Twenty-five soil borings (GP-series) were installed to depths of 20 to 25 feet bgs in the western portion of the lot by EP in 2005. Soil samples were selected from various intervals including 5 feet, 10 feet, 15 feet and 20 feet. Selected soil samples were analyzed for the full range of TPH and BTEX. The presence of TPH or BTEX was not identified in the laboratory results.

A building permit for Leslie Foods in the 1970s was issued for construction of a concrete pad and installation of a tank. Based on the construction of a concrete pad, it appears that the tank installed was likely an AST. QORE did not observe an AST or evidence of a previous AST during the subject property reconnaissance. Numerous permits were provided for the Glenn-Webb Company. Permits from 1954 and 1955 indicated the presence of a 550-gallon gasoline UST; a November 1955 permit indicated the 550-gallon UST was removed from the property. A 1959 permit indicated a 1,000-gallon gasoline UST was installed for Glenn-Webb, and a 1963 permit indicated the 1,000-gallon UST was filled in place. A 1963 permit indicated a 10,000-gallon gasoline UST was installed at the subject property; no removal records were identified for the 10,000-gallon UST.

As previously discussed, the 2005 EP geophysical survey and subsurface assessment did not identify the presence of underground structures or soil contamination on the southwestern portion of the subject property. QORE notes that the USTs associated with Glenn-Webb could be on the southwestern portion of the subject property or could be associated with the anomaly on the southeast corner of the subject property identified as a potential 10,000-gallon UST during the 2004 TRAK geophysical survey and subsurface assessment.

To assess groundwater conditions at the up-gradient and down-gradient boundaries of the subject property in areas that were accessible to drilling equipment, QORE installed four groundwater monitoring wells. One of the four wells (MW-4) was located immediately south and topographically down-gradient of the area where the former on-site USTs may have been located. A groundwater sample from MW-4 identified the presence of TPH-diesel at a concentration of 120 ppb that exceeds regulatory screening criteria of 100 ppb. The groundwater assessment and QORE's conclusions are discussed in Section 7.15.

Based on QORE's review, the 2005 EP assessment borings were installed at locations that would have been most likely to detect material impact from the former USTs located on the southwestern portion of the subject property. QORE notes that the soil samples were collected in each of the borings at five foot intervals. EP selected certain samples from each boring for analysis. Based on QORE's review of the data, the soils selected would have been expected to detect material residual impact, if any, from the former dispensers and also to indicate impact from USTs. QORE notes that no soil samples were found to contain BTEX or TPH.

Based on 1) the former and possibly current USTs, 2) lack of specific information indicating the location of the USTs and 3) the results of QORE's groundwater assessment indicating petroleum impact in groundwater in close proximity in a down-gradient direction, QORE considers the former use of the southwestern portion of the subject property to be a *recognized environmental condition*. QORE recommends that trenching be conducted in the storage/parking area between Buildings 1, 2, 3, 5, and 6. QORE recommends that the trenching extend at least five feet into the ground. If encountered, UST (s) and/or impacted soil should be removed in accordance with state and federal regulations.

WIP Regulatory Listings

Chef's Select and Mountain Valley Water Company were identified on the WIP regulatory database as historical facilities. According to Mr. Arthur Heath with the LARWQCB, the WIP database was composed of facilities that were identified as responsible parties in the San Fernando Valley NPL plume (discussed in Section 6.1), were identified as using chlorinated solvents or heavy metals, or were identified as potentially utilizing chlorinated solvents or heavy metals. QORE attempted to contact these two former tenants to ascertain what activities were conducted on-site by the two companies. Ms. Maria (last name withheld) with Mountain Valley Water Company indicated the company had rented warehouse space for the distribution of bottled water, and no equipment cleaning or bottling activities were conducted at the subject property. Chef's Select did not appear to be a currently operating business based on QORE's research. However, building department records indicated Chef's Select was a potato baking company, which would be unlikely to utilize chlorinated solvents or heavy metals.

The subject property addresses and tenants were not identified on the lists of Potentially Responsible Parties for the San Fernando Valley NPL plume provided to QORE by David Stensby of U.S. EPA Region IX. QORE obtained WIP file information for these facilities from the LARWQCB. The WIP files indicated both facilities were contacted due to the subject property's location within the documented regional VOC plume and not due to suspect activities conducted by these tenants. The LARWQCB provided a chemical use questionnaire to both tenants; neither tenant identified chemical use in their operations at the subject property on the questionnaires. Both tenants received "no further action" letters from the LARWQCB in February 1997. Based on 1) information provided in the WIP files, 2) interview information from a representative of Mountain Valley Water Company, and 3) building department records for Chef's Select, these facilities are not considered to present a *recognized environmental condition* to the subject property.

Clarifiers

A note dated 1959 in the Glenn-Webb regulatory file indicated the presence of a clarifier at the facility, and a 1985 industrial waste discharge permit for Chef's Select indicated the use of an existing clarifier for floor and equipment washwater from potato baking activities. At the time of QORE's site visit, a three-stage clarifier was observed in Building 1; it was evident the clarifier had not been used recently. The 2005 EP Addendum Phase I ESA indicated the presence of the clarifier observed by QORE, and a concrete patch was identified as a potential former clarifier or drain system located near the southeast corner of Building 1. QORE did not observe the concrete patch during the site visit; however, the subject property buildings had been vandalized, and the floors were not clearly visible due to the presence of trash and debris. Based on the historical sources reviewed, the tenants at the subject property that utilized the clarifier were food production companies, and the wastewater disposed in the clarifier consisted of food debris and equipment washdown water.

In 2005, EP installed two direct push soil borings to depths of 10 and 15 feet bgs in the vicinity of the existing clarifier (GP12 and GP13) and two direct push soil borings to depths of three and eight feet bgs in the vicinity of the concrete patch suspected to be a former clarifier (GP21 and GP22). The soil samples were analyzed for the full range of TPH, BTEX, VOCs, and CAM 22 Metals. Laboratory analysis did not detect these constituents in samples from the four direct push borings.

Based on QORE's review, the 2005 EP assessment borings were installed at locations that would have been most likely to detect material impact from the existing and former clarifiers. QORE notes that the soil samples were collected from depths ranging from three to 15 feet bgs which would have been expected to detect material residual impact, if any, from these activities. QORE is of the opinion that the soil assessment appropriately addressed suspect findings in this area and the analysis of soil samples did not identify material impact to soil in this area.

Based on 1) QORE's on-site observations, 2) historical review, 3) regulatory review, and 4) review of EP's Phase I ESA, and 5) the results of the 2005 subsurface assessment by EP, the current and former clarifiers are not considered to present a *recognized environmental condition* to the subject property. Local regulations require that the removal of the clarifiers be permitted through the Glendale Fire Department. QORE recommends that the clarifiers be removed prior to redevelopment of the subject property in accordance with applicable regulations. QORE notes that there is potential for localized soil impact in the vicinity of the clarifiers. This potential soil impact is not expected to be significant because the use of the clarifiers appears to have been restricted to food processing companies. If such impact is identified during redevelopment activities, the impacted soil should be disposed in accordance with local, state, and federal regulations.

Summary of Conclusions:

QORE's review of the prior assessment data indicates that soil sampling and geophysical surveys have been conducted in the areas where former features (USTs and clarifiers) were most likely to have been. The results of the soil assessment have not indicated significant material impact. The geophysical surveys indicate the likely presence of subsurface features on the southeastern portion of the subject property. Given the general limitations of geophysical surveys and that several USTs have been

documented to have been on-site, it is QORE's opinion that additional USTs may be present on-site. QORE notes that some of the documented USTs were removed prior to current regulations governing tank removal and therefore, impacted soil from the former USTs may also be present on-site. The presence of USTs and/or impact from existing or former USTs, except where noted above, presents a *recognized environmental condition* to the subject property.

QORE conducted a subsurface assessment of groundwater on the up-gradient and down-gradient boundaries of the subject property to assess the potential that the on-site *recognized environmental conditions* have significantly impacted groundwater. QORE's Phase II groundwater assessment is discussed in Section 7.15 of this report.

Based on the extent of prior assessment and that additional soil assessment may not provide meaningful results due to lack of identified specific locations of source areas, QORE did not recommend additional soil assessment. However, QORE anticipates that USTs and impacted soil will likely be identified during redevelopment activities. QORE recommends that JPI consider in its development budget the cost of removal of the USTs and/or impacted soil and regulatory involvement to obtain closure of the USTs, if identified. QORE notes that removal of clarifiers will also require regulatory oversight.

5.2 Historical Use Information on Adjoining Properties

Table of Historical Surrounding Land Usage			
Current Use/Location	Prior Use	Source	Comments
<p>Northwest (west to east, beyond Fernando Court): Topanga Lumber and Hardware 449 Fernando Court</p> <p>Temperature Technology Heating and Air Conditioning 440 West Cypress Street</p> <p>Project Achieve 437 Fernando Court</p> <p>Glendale Studios 433 Fernando Court</p>	<p>Warehouse, single-family residences, and/or vacant land Prior to 1928 to mid-1950s</p> <p>Pacific States Box and Basket Company Mid-1950s to late 1990s</p> <p>Mechanical Engineering Company Early 1960s to mid-2000s</p> <p>Various other occupants (including single- and multifamily residences, Engineered Metals of California, Bar Aids, FloorMart Bargain Carpet, and Fulfillment House) Early 1960s to mid-2000s</p> <p>Topanga Lumber and Hardware Late 1990s to present</p> <p>Project Achieve Early 2000s to present</p> <p>Temperature Technology Heating and Air Conditioning Early 2000s to present</p> <p>Glendale Studios Mid-2000s to present</p>	A, CD, PR, T, I	<p>Mechanical Engineering Company was identified during the regulatory review as a suspect <i>recognized environmental condition</i> and is discussed in Section 6.1.</p>
<p>North (beyond the intersection of Fernando Court and Gardena Avenue): Mechanical Concepts 429 Fernando Court</p> <p>Nova Automotive 421 Fernando Court</p>	<p>Single-family residences and/or vacant land Prior to 1928 to mid-1950s</p> <p>United Staff and Stone Mid-1950s to mid-1970s</p> <p>Various tenants (including Mohr's International Enterprises, Bar Aids, Celestial Products, and General Auto and Brake) Mid-1970s to early 1990s</p> <p>Mechanical Concepts Mid-1980s to present</p> <p>Nova Automotive Early 1990s to present</p>	A, CD, PR, T, I	<p>Mechanical Concepts and Nova Automotive were identified during regulatory review as suspect <i>recognized environmental conditions</i> and are discussed in Section 6.1.</p>

Table of Historical Surrounding Land Usage			
Current Use/Location	Prior Use	Source	Comments
<p>Northeast (north to south, beyond Gardena Avenue): Trans Aid Ambulance 1300 Gardena Avenue</p> <p>Gateway Animal Hospital 431 West Los Feliz Road</p>	<p>Single-family residences with associated outbuildings and vacant land Prior to 1908 to the mid-1920s</p> <p>Single-family residences, vacant land, and a service station Mid-1920s to late 1920s</p> <p>Single-family residences and/or vacant land Late 1920s to mid-1950s</p> <p>Animal hospital (most recently Gateway Animal Hospital) and a parking lot Mid-1950s to early 1980s</p> <p>Office/warehouse structure (including tenants Guardian X-Ray Services, Sentry Industries, and Fleming Jacquet & Miller) and Gateway Animal Hospital Early 1980s to mid-1990s</p> <p>Office/warehouse structure (including tenants Backflow Prevention Device Services, Alcadia Plumbing, Patton and Maloney Plumbing, Central Services Plumbing, Earthquake Store, PRC Mechanical, and Wired Rite Electric) and Gateway Animal Hospital Mid-1990s to mid-2000s</p> <p>Trans Aid Ambulance and Gateway Animal Hospital Mid-2000s to present</p>	A, CD, PR, T, HFI	<p>Gardena Avenue was constructed adjoining northeast of the subject property in the 1940s.</p> <p>The historical service station present from the mid- to late 1920s presents a suspect <i>recognized environmental condition</i> as discussed below.</p> <p>Guardian X-Ray Services and Fleming Jacquet & Miller were identified during regulatory review as suspect <i>recognized environmental conditions</i> and are discussed in Section 6.1.</p>

Table of Historical Surrounding Land Usage			
Current Use/Location	Prior Use	Source	Comments
Southeast (beyond West Los Feliz Road): Technicolor 440 West Los Feliz Road	Undeveloped land Prior to 1908 to late 1910s Various occupants (including fruit store, cabinet shop, sheet metal works, brass and copper works, offices, and other stores) Late 1910s to early 1950s L W Binkley service station Early 1940s to mid-1950s Condict Company Mid-1950s to early 1960s Genge Gordon Company Early 1960s to mid-1960s Industrial Displays Mid-1960s to late 1970s Mason Electric Mid-1970s to early 2000s Floormart Commercial Systems Early 2000s to mid-2000s Technicolor Mid-2000s to present	A, CD, PR, T, HFI	In the 1950s, West Los Feliz Road was re-routed south of its current location for construction of the underpass beneath the railroad tracks that was present at the time of QORE's site visit. After construction was complete, the road was moved back to its original position. The southeast-adjointing L W Binkley service station presents a suspect <i>recognized environmental condition</i> to the subject property as discussed below. Based on down-gradient topographic relationship, the remaining southeast-adjointing facilities are not considered to present suspect <i>recognized environmental conditions</i> to the subject property.
	Technicolor 1411 Railroad Street		
Southwest (beyond the Southern Pacific Railroad easement): Costco 2901 Los Feliz Boulevard	Ceramics manufacturing facility (including Gladding-McBean, International Pipe-Ceramics, Dura Ceramics, and Franciscan Ceramics) 1905 to 1988 Vacant land (under remediation activities) 1988 to early 2000s Costco Early 2000s to present	A, CD, PR, T	Franciscan Ceramics was identified during the regulatory review as a suspect <i>recognized environmental condition</i> and is discussed in Section 6.1.

A - Aerial Photographs
 HFI - Historical Fire Insurance Maps
 T - Topographic Map
 CD - City Directories
 I - Interviews
 GFR - Government File Reviews
 PR - Previous Report

Discussion

Suspect *recognized environmental conditions* identified in the table above and not discussed in the regulatory review in Section 6.1 included the occupants and/or uses presented below.

A service station was noted on the 1925 Sanborn map located adjoining the subject property to the northeast, near West Los Feliz Road in the location of what is now Gardena Avenue. The service station was not noted on the 1919 Sanborn map or the 1928 historical aerial photograph, indicating the service station was likely present from the early to mid-1920s. This service station was located topographically up- to cross-gradient of the subject property. Previous soil borings on the southeast portion of the subject property did not identify significant soil contamination in that area. However, the nearest soil boring along the southeastern subject property boundary was extended to 10 feet bgs and located approximately 20 feet down-gradient from the area of the northeast-adjointing former service station. Due to the shallow depth of the boring and distance of the boring from the former service station, samples from this boring may not have encounter soil contamination from the former northeast-adjointing service station, if present.

The area of this former service station was redeveloped as Gardena Avenue. USTs and/or soil contamination from the former northeast-adjointing service station were likely encountered and addressed during construction of Gardena Avenue. Based on 1) short duration of the presence of the former service station (less than 10 years), 2) length of time since the service station was present (over 80 years), 3) depth to groundwater, 4) that the highest detected concentration of TPH was in MW-4, cross-gradient to this facility, and 5) development of Gardena Avenue, the former northeast-adjointing service station is not considered to present a *recognized environmental condition* to the subject property.

The subject property also had on-site service stations and/or fuel USTs during the time period the northeast-adjointing service station was present. Potential releases from the on-site and northeast-adjointing fuel storage present the possibility for commingled plumes at the subject property. As indicated previously, to assess groundwater conditions at the up-gradient and down-gradient boundaries of the subject property in areas that were accessible to drilling equipment, QORE installed four groundwater monitoring wells. One of the four wells (MW-3) was located topographically down-gradient of the on-site service station and this off-site gasoline service station. A groundwater sample from this well did not indicate the presence of petroleum constituents above screening comparison criteria. The groundwater assessment and QORE's conclusions regarding groundwater are discussed in Section 7.15. Based on the results of the groundwater assessment, it does not appear that a commingled plume from this off-site facility with the on-site facilities, if present, would be migrating further down-gradient and impacting off-site facilities.

Another service station was noted on the 1950 Sanborn map on the southeast-adjointing property, on the southwest corner of the intersection of West Los Feliz Road and Gardena Avenue. The 1940 historical aerial photograph indicated the service station

was present at that time; in the 1956 historical aerial photograph, the location of the service station had been paved over with the re-routed West Los Feliz Road. This historical service station was identified during regulatory review as the L W Binkley service station. Based on its down gradient position, the former southeast-adjoining service station is not considered to present a *recognized environmental condition* to the subject property. However, the subject property also had on-site service stations and/or fuel USTs during this time period. Potential releases from the on-site and southeast-adjoining fuel storage present the possibility for commingled plumes down-gradient from the subject property. As indicated above, based on the groundwater assessment conducted by QORE, it does not appear that this down-gradient property has been impacted by petroleum constituents migrating from the subject property.

An assessment as to whether or not historical adjoining land use was considered to present a suspect *recognized environmental condition* to the subject property was based on whether or not the property or current and past occupants were listed on the regulatory databases reviewed (Section 6.1), interviews with local agency personnel (Section 6.2), information obtained from prior reports (Section 5.3), QORE's area reconnaissance observations, and interviews with the site contact and/or owner's representative (Sections 7.0). Based on information obtained by QORE and as presented in the above-referenced sections, other than discussed above, prior historical surrounding land usage is not considered a suspect *recognized environmental condition* to the subject property.

5.3 Review of Previous Reports

QORE reviewed a previous Phase I ESA that was provided by JPI: *Phase I Environmental Site Assessment*, 465 West Los Feliz Road and 434-450 Fernando Court, Glendale, California. This report was prepared by EP and was dated July 14, 2004. Excerpts from this report are included in Appendix C of this report. Pertinent information is summarized as follows:

- Based on drawings and information provided in EP's report, QORE concluded that the boundaries of the property assessed by this consultant corresponded to the boundaries of the subject property.
- At the time of EP's assessment, the subject property had been improved with the six commercial warehouse currently located on-site. Building 1 was occupied by Jamai Spicehouse, Inc., a spice distribution warehouse; Art Construction Studio, a construction and design studio; Southland Bread Distribution, a bread distribution warehouse; and the Los Angeles Daily News, a packaging and distribution facility for a newspaper publishing company. Building 2 was occupied by offices for Byron's Auto, an automobile repair shop, and M&D Supply, a plumbing company. Building 3 was a parts warehouse for M&D Supply, and Building 4 was occupied by Glendale Rotary Offset Printing, a printing services company. Building 5 was used as storage warehouses for Patrick Budowski, an entrepreneur, and Ray Pierce, a magician. Building 6 was occupied by American Bakery Products, a bread distribution warehouse, and Art and Oils for Less, a retail oil painting shop. The northwest parking lot on the subject property stored an office trailer for Pyramid Marble, a marble and granite fabrication workshop. Work space for Byron's Auto was also located in the northwest parking lot.

- EP identified multiple on-site USTs from former tenants in historical records for the subject property addresses as listed below. EP did not identify visual evidence of the presence of USTs at the subject property.
- EP identified multiple *recognized environmental conditions* and *historical recognized environmental conditions* associated with the subject property:
 - On-site USTs associated with the former service station and rubbish collection company located at 435 West Los Feliz Road;
 - On-site USTs associated with the former service station located at 447-449 West Los Feliz Road;
 - An on-site UST potentially located at 450 Fernando Court;
 - Oil-stained areas at Byron's Auto and at a location of a compressor located south of Building 1; and
 - Westward migration of possible subsurface petroleum hydrocarbon contamination from the former service station located at 433 West Los Feliz Road (currently Gardena Avenue).

QORE's discussion of these issues is located in Sections 5.1 and 7.0 of this report.

- EP observed typical maintenance and cleaning supplies, paints, acids, inks, solvents, and other chemicals stored in the various tenant spaces on the subject property. EP did not observe evidence of significant chemical releases at the subject property, with the exception of oil staining associated with Byron's Auto and a compressor south of Building 1 as discussed above.
- EP observed chemicals stored in drums and containers of various size in the Glendale Rotary Offset Printing waste storage area. EP did not report evidence of spills or leaks from these containers. EP did not report the presence of substances in Building 4 or the waste storage area that were not listed on the MSDS sheets provided to EP by Glendale Rotary Offset Printing.
- EP identified Glendale Rotary Offset Printing on the HAZNET regulatory database for photochemical and photoprocessing waste. EP did not identify violations in conjunction with disposal of hazardous wastes by Glendale Rotary Offset Printing. QORE's discussion of this facility is located in Section 5.1 of this report.
- EP did not identify sumps or clarifiers at the subject property during their site visit. However, EP identified an "indirect waste receptor drain/container" on the floor inside the film development area of Glendale Rotary Offset Printing. Silver-containing waste was reportedly temporarily stored in the indirect waste receptor which served as a small sump. The silver-containing waste was reportedly removed from the containment approximately once per month by an independent waste removal company.
- EP observed a "parts-cleaning aboveground solvent tank" and used motor oil drums and filters in the Byron's Auto service bay. EP also observed oil and

- grease staining on the concrete associated with Byron's Auto in the vicinity of the parts cleaner and used motor oil drums and filters.
- EP interviewed Mr. Jerry Bir, a partner of Glendale Rotary Offset Printing. According to EP, Mr. Bir reportedly stated that Glendale Rotary Offset Printing had purchased the subject property in 1981, but did not occupy the subject property until 1998. Mr. Bir also reportedly stated that there was a possible fuel UST utilized at the northwest portion of the subject property at some time in the past.
 - EP interviewed Mr. Byron Rosas of Byron's Auto. According to EP, Mr. Rosas reportedly stated he had occupied space at 450 Fernando Court for approximately seven years where he performed automobile repair activities. Mr. Rosas reportedly stated waste solvent, oil, and oil filters were removed from the subject property by Safety-Kleen for off-site disposal and recycling.
 - EP was provided with a GPR survey conducted by Manness Environmental Services, Inc. in 1997 in the paved area of 450 Fernando Court on the northwest portion of the subject property, and another area that did not appear to be part of the subject property. The GPR survey did not identify UST-like structures in the survey area. The approximate area of the 1997 GPR survey is outlined in green on the northwest portion of the subject property on QORE's Historical Site Plan in Appendix A.
 - EP stated groundwater in the area of the subject property was expected to be approximately 40 feet bgs and generally flowed to the south.

EP recommended subsurface soil sampling to assess the potential presence of petroleum products and other contaminants, a search to locate possible USTs remaining on the subject property from former occupants, a contingency plan to manage USTs encountered during future construction activities, proper removal and disposal of chemical substances and hazardous wastes prior to activities that would potentially cause a release, an asbestos survey, identification and disposal of PCB-containing light ballasts, and proper disposal of fluorescent light tubes.

QORE reviewed a previous subsurface assessment that was provided by JPI: *Report of Environmental Investigation*, 465 West Los Feliz Road and 434-450 Fernando Court, Glendale, California. This report was prepared by TRAK and was dated November 20, 2004. Excerpts from this report are included in Appendix C of this report. Pertinent information is summarized as follows:

- Based on drawings and information provided in TRAK's report, QORE concluded that the boundaries of the property assessed by this consultant corresponded to the boundaries of the subject property.
- The TRAK subsurface investigation consisted of a geophysical survey to evaluate the possible presence of USTs in open areas reported to have formerly been UST locations and to evaluate subsurface soils for the possible presence of petroleum products or hazardous substances in areas of potential concern.

- TRAK installed 44 soil borings (A-, B-, C-, D-, E-, and F-series borings) utilizing a direct-push rig to depths of one to 10 feet bgs at various locations on the subject property as shown on the figures in Appendix C. Soils encountered reportedly included sandy silt, silt, clayey silt, silty sand, sand, and sand with gravel.
- Laboratory analysis for TPH, VOCs, and/or metals did not identify soil contamination above regulatory criteria. Specific concentrations and locations identified by TRAK are discussed in Section 5.1 of this report.
- Groundwater reportedly was not encountered during TRAK's subsurface investigation.
- TRAK subcontracted GeoVision to conduct a geophysical survey of suspect UST areas at the southeastern and south-central areas of the subject property. The geophysical survey identified a likely 10,000-gallon UST; a small UST, buried utility vault, or abandoned piping; and a small metal plate under the asphalt on the southeastern portion of the subject property. The soil borings in the area of the likely 10,000-gallon UST encountered refusal at approximately four feet bgs, confirming the presence of a large subsurface structure or UST. The geophysical survey is further discussed in Section 5.1 of this report.

TRAK's report concluded, "TRAK recommends that the large geophysical anomaly in the Southeastern Parcel Area be further investigated, and if verified to be a UST, removal of the UST in accordance with the proper permits is recommended. At the time of further activities in this area, verification of the identity of the small geophysical anomaly adjacent to Gardena Avenue is also suggested."

QORE reviewed a previous geotechnical subsurface assessment that was provided by JPI: *Preliminary Soils Engineering Investigation for Proposed Four to Six-Story Mixed-Use Commercial/Residential Building with Three-Level Subterranean Garage*, 435 Los Feliz Road, Glendale, California. This report was prepared by GeoSystems, Inc. (GeoSystems) and was dated December 17, 2004. Excerpts from this report are included in Appendix C of this report. Pertinent information is summarized as follows:

- Based on drawings and information provided in the GeoSystems report, QORE concluded that the boundaries of the property assessed by this consultant corresponded to the boundaries of the subject property.
- The GeoSystems geotechnical subsurface investigation consisted of the installation of five soil borings to depths of 30 to 55 feet bgs as shown on the figure in Appendix C. Soils encountered reportedly included sandy silt, silty sand, fine to medium sand, and medium sand with gravels. The geotechnical subsurface investigation did not include environmental analysis of soils.
- Groundwater reportedly was not encountered during GeoSystems' subsurface investigation.

GeoSystems did not make recommendations or conclusions regarding environmental conditions.

QORE reviewed a previous Addendum Phase I ESA that was provided by JPI: *Addendum Phase I Environmental Site Assessment Report*, 465 West Los Feliz Road and 434-450 Fernando Court, Glendale, California. This report was prepared by EP and was dated April 19, 2005. Excerpts from the 2005 EP report are included in Appendix C of this report. The 2005 EP report was generated after EP obtained additional records for the subject property from the Glendale Fire Department and a subsequent site visit confirmed the presence of an industrial wastewater clarifier and a potential former clarifier in Building 1. EP recommended an additional geophysical survey and subsurface soil sampling in areas not previously assessed by TRAK in 2004 in order to assess the remainder of the southern portion of the subject property for the presence of USTs, evidence of contamination from former USTs, or evidence of contamination from clarifiers in Building 1. QORE's discussion of the historical fire department records for the subject property is located in Section 5.1 of this report.

QORE reviewed a previous subsurface assessment that was provided by JPI: *Subsurface Geophysical and Soil Investigation*, 465 West Los Feliz Road, Glendale, California. This report was prepared by EP and was dated June 24, 2005. Excerpts from this report are included in Appendix C of this report. Pertinent information is summarized as follows:

- Based on drawings and information provided in EP's report, QORE concluded that the boundaries of the property assessed by this consultant corresponded to the boundaries of the subject property.
- The EP subsurface investigation consisted of a geophysical survey to evaluate the possible presence of USTs in open areas not previously assessed by TRAK and to evaluate subsurface soils for the possible presence of petroleum products or hazardous substances in areas of potential concern not previously assessed by TRAK.
- EP installed 25 soil borings (GP-series borings) utilizing a direct-push rig to depths of three to 25 feet bgs in the parking lot south of Building 2 and east of Building 1 and adjacent to a clarifier and suspect clarifier in Building 1 as shown on the figure in Appendix C. Soils encountered reportedly included silty sand, sand, and sand with gravel. Refusal was encountered at 20 to 25 feet bgs in several of the borings in the parking lot. This was likely due to rocky, dense soil conditions in those areas. Refusal was encountered in the vicinity of GP11 at several locations at approximately five feet bgs. The tip of the probe appeared to contain red brick fragments at one location where refusal was encountered near GP11; EP indicated the possible presence of a buried brick structure or debris.
- Laboratory analysis for TPH and VOCs did not identify the presence of these constituents. Laboratory analysis for metals indicated the presence of metals within background concentrations. Specific boring locations installed by EP are discussed in Section 5.1 of this report.

- Groundwater reportedly was not encountered during EP's subsurface investigation.
- EP subcontracted GeoVision to conduct a geophysical survey of the western portion of the parking area south of Building 2 and east of Building 1. The geophysical survey did not identify suspect USTs. The geophysical survey is further discussed in Section 5.1 of this report.

EP's report concluded, "Although EP Associates has made every effort to identify existing subsurface structures at the Site such as clarifiers and USTs...EP Associates recommends that any previously unidentified structures discovered during future redevelopment activities at the Site be properly removed and disposed of in accordance with all applicable laws and regulations, and that subsurface soils associated with such structures be assessed for environmental contamination, as appropriate."

6.0 RECORDS REVIEW

6.1 Standard Environmental Record Sources

QORE reviewed selected federal and state regulatory lists from Environmental Data Resources, Inc. (EDR). The EDR report is attached as Appendix D.

Federal and State Lists

The following table includes approximate minimum search distances and a list of the databases reviewed. These databases were selected based on minimum requirements in the JPI/GECRE Scope of Work. The number of facilities listed indicates the number of regulated facilities confirmed by QORE to be present within the JPI/GECRE minimum search distance for a particular database.

ASTM FEDERAL, STATE, & TRIBAL DATABASE LISTS		
Database	Approximate Minimum Search Distance	No. of Facilities
NPL/Equivalents	One Mile	2
Delisted NPL	One-half Mile	0
CERCLIS/Equivalents	One Mile	2
CERC-NFRAP Sites	One-half Mile	1
CORRACTS or Violators/ Enforcement	One Mile	0
RESPONSE	One Mile	2
RCRA Generators/Equivalents	Subject property and adjoining	LQG - 0 SQG - 1
RCRA TSD Facilities	One Mile	0
ERNS	Subject property	0
ENVIROSTOR/HIST CAL-SITES	One Mile	8
SWF/LF Report	One-half Mile	1
CORTESE	One-half Mile	8
SLIC List	One-half Mile	7
LUST List	One-half Mile	7
UST/HIST UST	Subject Property and Adjoining	3
VCP List	One-half Mile	0
HAZNET	Subject Property and Adjoining	10
AST	Subject Property and Adjoining	0
CHMIRS	Subject Property and Adjoining	0
Drycleaners	One-half Mile	3
EMI	Subject Property and Adjoining	0

ASTM FEDERAL, STATE, & TRIBAL DATABASE LISTS		
Database	Approximate Minimum Search Distance	No. of Facilities
WIP	Subject Property and Adjoining	6
Institutional Control/Engineering Control Registries	Subject Property and Adjoining	1
Brownfields Sites	One-half Mile	0

Significant facilities identified within the specified minimum search distances are included in the following table. Facilities that are not considered to be suspect *recognized environmental conditions* based on information presented in the table are not further discussed. Facilities considered to be suspect *recognized environmental conditions* are discussed in text following the table.

Significant Facilities Identified Within Approximate Minimum Search Distance						
Facility Name and Address	~Distance & Direction	Database	Apparent Hydrologic Relationship	Database Information	Additional Information	SREC? (Y/N)
Glendale Rotary Offset Printing 434 Fernando Court	On-site	HAZNET	N/A	Wastes generated included photochemicals/photoprocessing waste.	This historical on-site facility is discussed in Section 5.1.	Y
Chief's Salet and Mountain Valley Water Company 465 West Los Feliz Road	On-site	WIP	N/A	WIP file status was listed as historical for both tenants.	QORE requested and received WIP file information from the LARWQCB. These historical on-site tenants and regulatory files are discussed in Section 5.1.	Y
San Fernando Valley (Area 2 and Area 4) Crystal Springs Wellfield and Pollock Wellfield	Regional groundwater plume	GERCLIS, NPL, Cortese, ENVROSTOR, HIST Cal-Sites, ROD, FINDS	Regional groundwater plume	The San Fernando Valley aquifer was contaminated with chlorinated solvents and metals by the aerospace manufacturing and metal plating industries. Assessment and remediation activities began in the 1980s and are ongoing. The plume was divided into areas based on wellfield boundaries. The Pollock Wellfield (Area 4) is located south and down-gradient from the subject property; the subject property is located within the Crystal Springs Wellfield (Area 2).	See discussion below.	Y
Franciscan Fromentabi/ Franciscan Company 2601 L. Los Feliz Boulevard	Adjoining SW (across railroad tracks)	SQG, SLIC, CA FID UST, HIST UST, WEFEPS UST, HAZNET, Cortese, FINDS	Down-gradient	One RCRA violation was reported in 1984. Waste generated at the facility included contaminated soil from site cleanups. SLIC listing indicated TPH contamination. Historic UST lists indicated over 20 USTs had been installed at the facility. 45-acre site of ceramics manufacturing for over 70 years. Significant metals contamination was identified and remediation is ongoing.	See discussion below.	Y
Pacific States Box and Basket Company 1295 Los Angeles Street	Adjoining NW (tanks 360 feet NW)	HIST UST, HAZNET	Up-to cross-gradient	Historical USTs included a 2,000-gal diesel UST installed in 1979, a 5,000-gal unleaded gasoline UST with no reported installation date, and a 500-gallon premium gasoline UST with no reported installation date. Waste generated included tank bottom waste. This facility was identified on the Orphans list on the UST database.	This facility formerly occupied the warehouse observed by QORE to be occupied by Topanga Lumber and Hardware. Pacific States Box and Basket Company was still present approximately 360 feet northwest of the subject property; this was also the likely location of the historical and current USTs. Based on distance and current regulatory status, Pacific States Box and Basket Company is not considered to present a suspect <i>recognized environmental condition</i> to the subject property.	N

Significant Facilities Identified Within Approximate Minimum Search Distance						
Facility Name and Address	~Distance & Direction	Database	Apparent Hydrologic Relationship	Database Information	Additional Information	SREC? (Y/N)
Colour Grow 440 West Cypress Street	Adjoining NW	HAZNET	Up- to cross-gradient	Waste generated included unspecified solvent mixture waste.	See discussion below.	Y
Mechanical Engineering Company 433 Fernando Court	Adjoining NNW	HAZNET, WIP	Up-gradient	Wastes generated at the facility included liquids with halogenated organic compounds > 1,000 mg/L and oil/water separation sludge. WIP file status was listed as historical.	See discussion below.	Y
Mechanical Concepts, Inc. 429 Fernando Court	Adjoining N	HAZNET, WIP	Up-gradient	Wastes generated at the facility included waste oil and mixed oil and unspecified solvent mixture waste. WIP file status was listed as historical.	See discussion below.	Y
Nova Automotive 421 Fernando Court	Adjoining N	HAZNET, WIP	Up-gradient	Waste generated at the facility included contaminated soil from site cleanups. WIP file status was listed as historical.	See discussion below.	Y
Fleming Jacquet & Miller, Inc. 1300 Gardena Avenue	Adjoining NE	HAZNET	Up-gradient	Wastes generated at the facility included unspecified solvent mixture waste, hydrocarbon solvents, and other organic solids.	See discussion below.	Y
Mason Electric Company, Inc. 440 West Los Feliz Road	Adjoining SE	HAZNET, WIP	Down-gradient	Wastes generated at the facility included waste oil and mixed oil and oxygenated solvents. WIP file status was listed as active.	At the time of QORE's area reconnaissance, this facility address was observed to be occupied by Technicolor. Based on topographic relationship and QORE's observations, this facility is not considered to present a suspect <i>recognized environmental condition</i> to the subject property.	N
Amtreat Corporation 1405 Railroad Street	Adjoining SE (property boundary 145 feet S)	HIST UST	Down-gradient	A waste oil UST of unspecified size was listed. Installation and removal dates were not provided. Facility identified as a "heat treating" facility.	At the time of QORE's area reconnaissance, this facility address was observed to be occupied by Technicolor. Based on topographic relationship and QORE's observations, this facility is not considered to present a suspect <i>recognized environmental condition</i> to the subject property.	N
Vege Kurl 4115 San Fernando Road and 410-414 West Cypress Street	265 feet NE	WIP, SLIC, CHMIRS	Up-gradient	WIP file statuses were listed as historical and backlog. SLIC listing indicated a release of VOCs with a "reopen previously closed case" status. CHMIRS incident in 1995 consisted of a spill of 250 gallons of hair conditioner from a forklift.	See discussion below.	Y

Significant Facilities Identified Within Approximate Minimum Search Distance						
Facility Name and Address	~Distance & Direction	Database	Apparent Hydrologic Relationship	Database Information	Additional Information	SREC? (Y/N)
Former ARCO #0051 and Prestige Stations, Inc. #513 3941 San Fernando Road	280 feet E	HAZNET, L.A. County HMS, HIST UST, SWEEPS UST, LUST, Cortese, WIP	Cross-gradient	Wastes generated at the facility included aqueous solution with 10% or more total organic residues, unspecified aqueous solution, hydrocarbon solvents, asbestos-containing waste, and tank bottom waste. LUST incident occurred in 1995 with a gasoline release and the case was closed in 1999. Monitoring wells were destroyed in 2000. SLIC listing indicated case was open for releases of VOCs and "MET." Historical USTs included an 8,000-gal and two 10,000-gal USTs installed in 1972. HMS indicated the facility and permit had been removed. WIP file statuses were listed as historical and backlog.	At the time of QORE's area reconnaissance, this facility address was a CVS Pharmacy. Based on distance, topographic relationship, and QORE's observations, this facility is not considered to present a suspect <i>recognized environmental condition</i> to the subject property.	N
Guardian X-Ray Services (Merry X-Ray Chemical Corporation) 1422 Gardena Avenue	300 feet SE	HAZNET, SQG, SLIC, WIP, FINDS	Cross-gradient	No RCRA violations identified. Wastes generated at the facility included metal sludge, other inorganic solid waste, photochemicals/ photoprocessing waste, unspecified oil-containing waste, and aqueous solution with less than 10% total organic residues. WIP file status was listed as backlog. SLIC listing indicated a release of VOCs with a "reopen previously closed case" status.	Guardian X-Ray Services was formerly located adjoining northeast of the subject property at 1300 Gardena Avenue. See discussion below.	Y

SQG-Small Quantity Generator of Hazardous Waste
LQG-Large Quantity Generator of Hazardous Waste

Based on information provided in the table above, QORE considers the following facilities to be suspect *recognized environmental conditions* to the subject property. Additional information concerning these suspect *recognized environmental conditions* is presented below. As indicated in the table, the remaining facilities are not considered to be suspect *recognized environmental conditions* and are not further discussed.

San Fernando Valley Crystal Springs Wellfield (Area 2) & Pollock Wellfield (Area 4)

According to the EPA San Fernando Valley Superfund Sites Update in 2003, TCE and PCE were detected in numerous drinking water wells in the San Fernando Valley above the MCL (five ppb) in the early 1980s. In 1986, the San Fernando Valley was added to the NPL list. The valley was divided into four study areas; the subject property is located within the Crystal Springs operating unit (OU). In 1989, the EPA found elevated concentrations of VOCs in the groundwater in the Glendale area. Two groundwater plumes were discovered and named the Glendale North and Glendale South OUs within the Crystal Springs OU; the subject property is located within the Glendale South OU. A Record of Decision in 1993 determined the remediation plan was to extract groundwater at a rate of 5,000 gallons per minute and remove VOCs using air stripping, liquid-phase granulated activated carbon, and vapor-phase granulated activated carbon. In 1994, the EPA signed an Administrative Order on Consent (AOC) with 25 potentially responsible parties (PRPs) to conduct the remedial design phase of the project, which was completed in 1996. In 2000, the EPA entered into a consent decree with the PRPs who had signed the AOC, as well as additional PRPs, to voluntarily complete the remedial action. The City of Glendale was not a PRP, but was elected to perform operation and maintenance activities at the groundwater extraction and treatment plant. QORE obtained lists of PRPs from Mr. David Stensby with U.S. EPA Region IX. One list contained recipients of General Notice Letters (GNL) and Special Notice Letters (SNL) and was approximately four pages long. A GNL notified an entity that EPA had identified the entity as a PRP for the purpose of Superfund response actions. An SNL, in addition to designating an entity as a PRP, initiated a formal settlement process between EPA and the PRPs. The second list provided by Mr. Stensby included facilities which had received "no further action" letters (NFA) from the EPA for the VOC contamination; this list was over 50 pages long. The subject property addresses and historical tenants were not found on either list by QORE. The GNL and SNL list is included in Appendix D; the NFA list was not included in this report. Mr. Stensby stated the "lead" responsible party for the VOC contamination for the Glendale South OU was Lockheed Martin.

The most recent information on the San Fernando Valley Basin VOC plume QORE was able to obtain from the internet was TCE and PCE groundwater plume maps dated 2002. The 2002 plume maps indicated the presence of PCE between 5.01 ppb and 50 ppb and TCE below five ppb in shallow groundwater in the area of the subject property. Mr. Stensby provided 2005 plume maps as well as well-specific information for three groundwater wells near the subject property. The 2005 plume maps indicated the presence of both PCE and TCE from 5.01 ppb to 50 ppb in shallow groundwater in the area of the subject property. However, the well-specific information provided by Mr. Stensby indicated the concentrations of PCE and TCE in the nearby monitoring wells were both below the five ppb MCL (TCE at 0.14 to 1.3 ppb and PCE at 0.49 to 1.6 ppb). Two of the three wells were located approximately 700 feet down-gradient of the subject property, and the third well was located approximately 2,000 feet down- to cross-gradient of the subject property. Based on the shapes of the groundwater plumes on the

plume maps, concentrations of PCE and TCE are likely higher at the subject property than in the down-gradient wells.

To assess groundwater conditions at the up-gradient and down-gradient boundaries of the subject property in areas that were accessible to drilling equipment, QORE installed four groundwater monitoring wells. The groundwater assessment and QORE's conclusions are discussed in Section 7.15. As indicated in Section 7.15, the subject property has been impacted by chlorinated solvents from up-gradient sources. Based on 1) the results of QORE's groundwater assessment and 2) QORE's regulatory review, the NPL plume is considered a *recognized environmental condition* to the subject property.

Franciscan Promenade/ Franciscan Ceramics (2901 Los Feliz Boulevard)

The 45-acre former Franciscan Ceramics facility was used to manufacture ceramic tile, dinnerware, and clay pipe from approximately 1905 to 1988. Excess unfired glazing material that contained hazardous concentrations of lead, cadmium, and zinc had been deposited in low-lying areas of the facility property. Remediation work conducted in 1990 included excavation and off-site disposal of contaminated soil and placement of a clay cap over contaminated soil that remained at the facility property. The DTSC established a groundwater monitoring program for the former Franciscan Ceramics facility which included the sampling and analysis of groundwater monitoring wells along the perimeter of the facility boundaries. The purpose of the groundwater monitoring program was to determine whether heavy metals were migrating vertically and impacting groundwater. According to the November 2006 Groundwater Monitoring Report, the monitoring well closest to the subject property was HMW-1R. Cadmium was detected at 0.0001 ppm (compared to the MCL of 0.005 ppm), Lead was detected at 0.00012 ppm (compared to 0.015 ppm), and Zinc was detected at 0.012 ppm (no current MCL). According to the figure included in the November 2006 report, the area of capped contaminated soil was located over 975 feet west-northwest (cross-gradient) of the subject property. The figure also indicated a measured south-southwest groundwater gradient. At the time of QORE's area reconnaissance, the southern portion of the former Franciscan Ceramics facility was occupied by a Costco, Toys R Us, Best Buy, and multitenant retail business and restaurant buildings. Based on 1) its cross-gradient location, 2) status as of the November 2006 Groundwater Monitoring Report, and 3) QORE's observations, the former Franciscan Ceramics facility is not considered to present a *recognized environmental condition* to the subject property.

Colour Grow (440 West Cypress Street)

According to file information provided by the DTSC, the unspecified solvent mixture listed on the HAZNET database was a one-time shipment in 1998. QORE's research indicated Colour Grow was a European-based company that produced non-toxic, biodegradable, hydroponic crystals in which house plants could be grown as an alternative to soil. It is likely that the warehouse adjoining the subject property was a distribution center for Colour Grow. At the time of QORE's area reconnaissance, this facility was observed to be occupied by Temperature Technology, a heating and air conditioning service company. Based on 1) current regulatory status, 2) facility operations based on QORE's research, and 3) occupancy at the time of QORE's area reconnaissance, Colour Grow is not considered to present a *recognized environmental condition* to the subject property.

Mechanical Engineering Company (433 Fernando Court)

At the time of QORE's area reconnaissance, this facility was occupied by Glendale Studios, a production company. According to file information obtained from the DTSC, liquid with halogenated organic compounds greater than 1,000 ppm was generated from 2000 through 2003; oil/water separation sludge was a one-time shipment in 2003. Historical research indicated Mechanical Engineering Company (Mechanical) was a metalworking facility conducting precision machining and stamping activities. This facility was present from the early 1960s to the early 2000s. This indicates petroleum products and/or hazardous substances were likely utilized at the adjoining facility for over 40 years.

QORE obtained the WIP file for this facility from the LARWQCB. The WIP file included records of an inspection in December 1994 by the LARWQCB that indicated liquid and stains in the vicinity of a parts washer and 55-gallon steel drum. MSDS sheets reviewed by the LARWQCB representative indicated previous use of 1,1,1-trichloroethane by Mechanical. Based on the results of the inspection, LARWQCB required a soil gas survey at the Mechanical facility. Two soil gas surveys were conducted at the Mechanical facility in 1995. While the soil gas surveys showed chlorinated solvent contamination likely originated from the Mechanical facility and a facility to the east of the Mechanical facility, the LARWQCB reviewed the data and determined the Mechanical facility had not significantly contributed to the regional VOC plume. The Mechanical facility received a NFA letter regarding the WIP listing from the LARWQCB in October 1995.

To assess groundwater conditions at the up-gradient and down-gradient boundaries of the subject property in areas that were accessible to drilling equipment, QORE installed four groundwater monitoring wells. The groundwater assessment and QORE's conclusions are discussed in Section 7.15. Based on the results of the assessment, it appears that the subject property has been impacted by chlorinated solvents from a local up-gradient source as well as a regional VOC plume. In consideration of 1) the results of QORE's groundwater assessment, 2) close proximity, 3) topographic up-gradient location and 4) review of the regulatory file for the Mechanical Engineering Company, QORE considers this facility to be a *recognized environmental condition* to the subject property.

Mechanical Concepts, Inc. (429 Fernando Court)

At the time of QORE's area reconnaissance, Mechanical Concepts, Inc. (Concepts) was present at the listed address. According to file information obtained from the DTSC, hydrocarbon solvents, unspecified solvent mixture, waste oil and mixed oil, and/or unspecified oil-containing waste have been generated from 1997 to the present. Historical research indicated the Concepts facility had been present since the mid-1980s and conducted design and fabrication of custom engineered machinery. Petroleum products and/or hazardous substances were likely utilized at the facility for approximately 20 years.

QORE obtained the WIP file for this facility from the LARWQCB. The WIP file indicated limited amounts of petroleum waste (approximately five gallons) were stored at the facility. An inspection of the Concepts facility by LARWQCB staff in November 1994 did not identify USTs, ASTs, or clarifiers. Two floor drains were identified at the Concepts facility, but they were reportedly observed to be covered with concrete and no longer in use. The Concepts facility received a NFA letter from the LARWQCB in December 1994

regarding the WIP regulatory listing. However, Concepts' continued use of petroleum products and/or hazardous substances presents the possibility of releases at the facility since the time of the LARWQCB inspection.

To assess groundwater conditions at the up-gradient and down-gradient boundaries of the subject property in areas that were accessible to drilling equipment, QORE installed four groundwater monitoring wells. The groundwater assessment and QORE's conclusions are discussed in Section 7.15. Based on the results of the assessment, it appears that the subject property has been impacted by chlorinated solvents from a local up-gradient source as well as a regional VOC plume. In consideration of 1) the results of QORE's groundwater assessment, 2) close proximity, 3) topographic up-gradient location and 4) review of the regulatory file for Concepts, QORE considers this facility to be a *recognized environmental condition* to the subject property.

Nova Automotive (421 Fernando Court)

At the time of QORE's area reconnaissance, Nova Automotive (Nova) was present at the listed address which was identified adjoining north of the subject property. The database report indicated that waste generated at this facility included contaminated soil from a cleanup on the property. WIP file status was listed as historical. According to file information obtained from the DTSC, the contaminated soil was a one-time shipment of over 40 tons of soil in 1993. Mr. Guy Devorris, subject property owner, indicated Nova was an auto parts distributor. QORE's research confirmed Nova Automotive was a wholesale automotive parts distributor. QORE noted Nova Automotive was first listed as a tenant at the listed address in the early 1990s. Prior to occupancy by Nova, the facility address was vacant from the early 1980s. United Staff and Stone was present at the facility address from at least the mid-1950s to the early 1980s. Based on the corresponding dates of Nova's first occupancy of the facility and the shipment of the contaminated soils, it is likely that Nova cleaned up contamination from a previous occupant and not from Nova's activities at the facility. The source of the impact at the Nova facility was not included in the information reviewed by QORE.

To assess groundwater conditions at the up-gradient and down-gradient boundaries of the subject property in areas that were accessible to drilling equipment, QORE installed four groundwater monitoring wells. The groundwater assessment and QORE's conclusions are discussed in Section 7.15. Based on the results of the assessment, it appears that the subject property has been impacted by chlorinated solvents from a local up-gradient source as well as a regional VOC plume. In consideration of 1) the results of QORE's groundwater assessment, 2) close proximity, 3) topographic up-gradient location and 4) review of the regulatory file for Nova, QORE considers the documented impact at this facility to be a *recognized environmental condition* to the subject property.

Fleming Jacquet & Miller, Inc. (1300 Gardena Avenue)

At the time of QORE's area reconnaissance, this facility address was occupied by Trans Aid Ambulance. According to file information obtained from the DTSC, Fleming Jacquet and Miller, Inc. (Fleming) generated hydrocarbon solvents, unspecified solvent mixture, and/or other organic solids from 1993 to 2000. Historical research confirmed Fleming was at this location in the early 1990s. Research indicated Fleming was related to NBC Universal (entertainment industry), but specific activities conducted by Fleming are unknown.

To assess groundwater conditions at the up-gradient and down-gradient boundaries of the subject property in areas that were accessible to drilling equipment, QORE installed four groundwater monitoring wells. The groundwater assessment and QORE's conclusions are discussed in Section 7.15. Based on the results of the assessment, it appears that the subject property has been impacted by chlorinated solvents from a local up-gradient source as well as a regional VOC plume. In consideration of 1) the results of QORE's groundwater assessment, 2) close proximity, 3) topographic up-gradient location and 4) review of the regulatory information for Fleming Jacquet & Miller, QORE considers the this facility to be a *recognized environmental condition* to the subject property.

Vege Kurl (4115 San Fernando Road and 410-414 West Cypress Street)

At the time of QORE's area reconnaissance, Vege Kurl was observed to be an active facility located 265 feet northeast of the subject property. Research indicated Vege Kurl produced organic health and beauty products. The database report identified the WIP file status as historical and backlog. The SLIC listing indicated a release of VOCs with a "reopen previously closed case" status. Additional file information was not available on the DTSC SLIC database. The CHMIRS incident in 1995 was reported to consist of a spill of 250 gallons of hair conditioner from a forklift.

QORE noted that if a VOC release at the Vege Kurl facility reached groundwater, it would likely be difficult to distinguish from the regional San Fernando Valley groundwater VOC plume. QORE did not obtain a regulatory file for this facility and therefore, no additional information was obtained. QORE installed groundwater monitoring wells at up-gradient and down-gradient locations on the subject property in order to help determine groundwater contaminant distribution across the subject property as discussed in Section 7.15. Based on the information obtained, it is possible that this facility has contributed to groundwater impact in the area and the subject property and is therefore considered a *recognized environmental condition*.

Guardian X-Ray Services (Merry X-Ray Chemical Corporation) (1422 Gardena Avenue)

At the time of QORE's area reconnaissance, this facility address was observed to be located 300 feet southeast and cross gradient to the subject property. This facility was observed to be a warehouse with pallets of materials (buckets, boxes, etc.) visible on racks through open bay doors located 300 feet southeast (cross-gradient). The name of the facility was not publicly displayed. Wastes generated by Guardian X-Ray Services (Guardian) from 1993 to 2000 included metal sludge, other inorganic solid waste, photochemicals/ photoprocessing waste, unspecified oil-containing waste, and aqueous solution with less than 10% total organic residues. Based on distance and topographic relationship, the facility at 1422 Gardena Avenue does not present a suspect *recognized environmental condition* to the subject property. However, historical research indicated Guardian occupied 1300 Gardena Avenue (adjoining northeast of the subject property) in the early to mid-1980s. It is probable that Guardian generated wastes similar to those listed in the regulatory database during that time period. QORE installed groundwater monitoring wells at up-gradient and down-gradient locations on the subject property in order to assess groundwater contaminant distribution across the subject property as discussed in Section 7.15.

The remaining facilities identified within their respective approximate minimum search distance included one or more CERC-NFRAP, Hist Cal-Sites, SWF/LF, Cortese, LUST,

SLIC, CHMIRS, Dry Cleaners, Response, and Envirostor facilities. These facilities were located at least 530 feet from the subject property in topographically down- to cross-gradient positions. Based on distance, location, and other facility-specific characteristics, these facilities are not considered to present suspect *recognized environmental conditions* to the subject property.

Several other facilities were identified on the database report. Area research did not indicate that these facilities were located within their respective approximate minimum search distances.

The database report listed 20 "orphan" facilities (facilities that were not mapped in the database report due to poor or inadequate address information). With the exception of Pacific States Box and Basket Company (discussed above), the orphan facilities did not appear to be present within the approximate search radius for the database listings shown. Based upon QORE's area reconnaissance, distances of the listed facilities, type of regulatory listings identified for these facilities, and conditions typical of the identified facility activities; the orphan facilities do not present suspect *recognized environmental conditions* to the subject property. QORE reviewed the historical cleaners and auto stations databases. Three facilities were identified to be suspect *recognized environmental conditions*, E J Bartels, H F Richardson, and L W Binkley service stations. E J Bartels and H F Richardson were located on the subject property; L W Binkley was located on the southeast-adjointing property. These facilities were not identified on current regulatory databases and are discussed in Sections 5.1 and 5.2.

6.2 Additional Environmental Record Sources

QORE selected the following additional federal, state, or local sources of environmental records to enhance and supplement the ASTM E-1527-05 sources discussed above.

Additional Environmental Record Sources/Local Inquiries				
Database/Source	Entity	Facility	Response Received Y/N	Information Available Y/N
Municipal Inquiry	City of Glendale Fire Department	Subject Property	Y	Y-See Section 5.1.
County Inquiry	Los Angeles County Public Health Department	Subject Property	Y	N
Regional Inquiry	LARWQCB	Subject Property	Y	Y-See Sections 5.1 and 6.1.
State Inquiry	DTSC File Request	Subject Property	Y	N

Copies of the requests and records of communication for these inquiries are included in Appendix E of this report.

7.0 SUBJECT PROPERTY RECONNAISSANCE

7.1 Methodology and Limiting Conditions

The subject property reconnaissance was performed on September 28, 2007, by Ms. Karen Harvey. Limitations imposed by physical obstructions or other limiting conditions included:

The buildings on the subject property were not provided with electricity and the interiors were in poor condition due to vandalism; floor drains, areas of staining, or concrete patches may have been obscured by darkness or debris. Additionally, due to conditions noted in Buildings 5 and 6 including poor lighting conditions, a large amount of debris constituting trip hazards, and a strong odor indicating bacterial growth was present in Buildings 5 and 6, QORE elected not to access Buildings 5 and 6 due to health and safety concerns. A portion of Building 5 was observed from an open doorway; the observed areas did not differ significantly from other subject property buildings entered by QORE. Mr. Devorris indicated conditions in Building 6 were similar to those observed in Building 5. Based on the limited area of Building 5 observed by QORE and types of historical occupants of Buildings 5 and 6 (no recorded manufacturing or chemical storage activities), QORE does not consider lack of observations in these two buildings to be a significant data gap.

7.2 Above and Underground Storage Tanks

No current storage tanks were observed or reported to be present on the subject property. However, review of historical information indicated past usage of ASTs and/or USTs on the subject property as discussed in Section 5.1. Neither the subject property nor adjoining properties were identified on the state or federal databases for facilities with ASTs or USTs.

7.3 Lead-Based Paint

The on-site improvements were constructed prior to 1979 and may contain lead-based paint. During the area reconnaissance, QORE noted that the majority of painted surfaces were in good condition. However, the paint on the uppermost ceiling of Building 1 was noted to be significantly damaged and was likely to be the original paint from when the building was constructed (prior to 1940 based on historical aerial photographs). A lead-based paint survey was not conducted as part of QORE's services. QORE understands that demolition of the buildings is planned and future occupancy is not expected. QORE's discussions with JPI indicated manual demolition (hand scraping, blowtorching, etc.) was not planned at the subject property. However, if manual demolition of the subject property buildings occurs, a demonstration that the paint does not contain lead will be warranted, or JPI can assume the paint contains lead and treat it accordingly.

7.4 Asbestos Survey

A limited asbestos survey of the subject property was performed on September 28, 2007, by Mr. Doug Kochanowski, an EPA-certified and California-licensed asbestos inspector experienced in regulations and procedures governing asbestos. This survey consisted of a walk-through of limited building areas, and the collection and analysis of 20 samples of suspect ACM. Mr. Guy Devorris, the subject property owner, provided access to the areas observed by QORE. No Asbestos Operations and Maintenance (O&M) program was provided or reported to exist for the subject property. Buildings 5 and 6 were not accessed as part of the limited asbestos survey. A portion of Building 5 was observed from an open doorway; the building materials in observed areas did not differ significantly from other subject property buildings entered by QORE. Mr. Devorris indicated conditions in Building 6 were similar to those observed in Building 5.

The limited asbestos survey scope of work is intended to identify the potential presence of major classes of accessible ACM at the subject property and addresses very limited objectives relating to the characterization of asbestos within the project. Estimation and determination of exact quantities and locations of these materials at the subject property were beyond the scope of this survey. These data alone are not appropriate for planning specific response actions or for health hazard assessment, nor are they sufficient for renovation or demolition activities. In the event renovation or demolition activities are planned, a comprehensive asbestos survey would be required prior to initiation of such activities.

The National Emission Standard for Hazardous Air Pollutants (NESHAP) regulations consider certain building materials that have not been thoroughly tested to be suspect ACM regardless of the date of construction. Such materials number in excess of 30,000 products, but those commonly encountered in modern building systems include flooring materials, mastics, sealants, finish textures, ceiling tiles, non-fiberglass thermal and other insulation, roofing components, and fireproofing. NESHAP regulations require that all ACM be identified prior to potential disturbance of suspect ACM such as demolition or renovation activities. The degree and thoroughness of assessment is similar to that required in accordance with Asbestos Hazard Emergency Response Act (AHERA - 40 CFR 763), plus certain additional requirements. The limited asbestos survey performed as part of this project was not intended to meet the performance standard established under NESHAP regulations for demolition and renovation.

Revisions to regulations issued by OSHA require that all thermal system insulation, surfacing materials, and resilient flooring materials installed prior to 1981 be considered Presumed Asbestos-Containing Materials (PACM) and treated accordingly. In order to rebut the designation as PACM, OSHA requires that these materials be surveyed, sampled and assessed in accordance with AHERA. The limited asbestos survey scope of services was not intended to be sufficient to rebut the PACM designation.

Observations and Sample Collection

The subject property contained multiple tenant spaces that had likely been improved and renovated at various times since construction of the on-site buildings as early as 1940. It is likely that the materials in each of the tenant spaces were not homogenous to each other. Suspect ACM observed included numerous types of floor tile with mastic, linoleum, ceiling tiles, ceiling tile mastic, and several different wall systems (comprising wallboard, joint compound, and texture).

Samples were collected using reasonable efforts by Mr. Kochanowski from readily accessible, representative suspected ACM. This was a non-destructive service. Therefore, no attempt was made to disassemble equipment or demolish structural or finish materials. Unreported ACM may be present in wall voids, above ceilings behind paneling, beneath carpet, within building cavities, in roofing materials, and within mechanical parts and in other concealed or inaccessible areas. Twenty samples of suspect ACM were collected by Mr. Kochanowski and submitted for analysis, including wall and ceiling systems, floor tile and floor tile mastic, linoleum, ceiling tiles, and ceiling tile mastic.

Laboratory Procedures

NESHAP regulations clarify the analytical procedures for determining the percentage of asbestos in bulk samples to permit the use of visual area estimation. The regulations further indicate that regulated asbestos-containing materials (RACM) - materials that are friable or may become friable - be further analyzed by point counting when the results indicate less than 10 percent asbestos by visual area estimation. This is non-mandatory if the owner/operator elects to assume that the amount of asbestos in a material is greater than one percent, regardless of the amount determined by visual estimation, and the material is treated as asbestos-containing. The scope of services utilizes visual area estimation on a routine basis and does not include point counting unless specifically requested.

Vinyl floor tile and other resinously bound materials, when analyzed by the EPA method, may yield false negative results because of limitations in separating closely bound fibers and in detecting asbestos fibers of small length and diameter. When a definitive result is required, QORE recommends utilizing alternative methods of identifications, including Transmission Electron Microscopy (TEM).

The building material samples were submitted to Steve Moody Micro Services, Inc. for analysis by Polarized Light Microscopy (PLM).

Analysis Results

Laboratory analysis of the sampled suspect building materials confirmed the presence asbestos in five of the 20 samples as discussed in the following table:

Sample ID	Material Description	Friable	Condition	Quantity	Asbestos Content	Sample Location
01-1	Drywall	No	Fair	Throughout	None Detected	Building 4, main large room, north wall, west of exit door
02-1	Joint Compound and Tape	No	Fair	Throughout	None Detected	Building 4, main large room, north wall, corner west of exit
03-1a	Gray Mottled 12" Floor Tile	No	Good	3,025 Square Feet	None Detected	Building 4, east office area, center
03-1b	Glue Below Gray Mottled 12" Floor Tile	No	Good	3,025 Square Feet	None Detected	Building 4, east office area, center
04-1	Drywall	No	Fair	Throughout	None Detected	Building 1, southeast corner room, south wall, by east entrance
05-1	Joint Compound and Tape	No	Fair	Throughout	None Detected	Building 1, southeast corner room, south wall, by east entrance or office
06-1	Wall Plaster	No	Good	1,000-Square Feet	None Detected	Building 1, southeast corner room, south wall, center
07-1a	Tan 12" Square Pattern Linoleum Flooring	No	Good	50 SF	None Detected	Building 1, mezzanine, bathroom, by commode
07-1b	Fiber Backing Below Tan 12" Square Pattern Linoleum Flooring	Yes	Good	50 SF	None Detected	Building 1, mezzanine, bathroom, by commode
08-1a	Tan 2" Square Pattern Linoleum Flooring	No	Good	100 SF	None Detected	Building 1, mezzanine, bathroom, along center of east wall

Sample ID	Material Description	Friable	Condition	Quantity	Asbestos Content	Sample Location
08-1b	Fiber Backing Below Tan 2" Square Pattern Linoleum Flooring	Yes	Good	100 SF	None Detected	Building 1, mezzanine, bathroom, along center of east wall
09-1	Wall and Ceiling Textured Paint	No	Good	Throughout Office Area	None Detected	Building 1, central offices, east office, west wall, south end
10-1	Covebase and Mastic	No	Good	Throughout	None Detected	Building 1, central offices, hallway, northeast corner
11-1a	Wood Pattern Linoleum Flooring	No	Good	400 SF	None Detected	Building 1, south offices by loading dock, center
11-1b	Fiber Backing Below Wood Pattern Linoleum Flooring	Yes	Good	400 SF	None Detected	Building 1, south offices by loading dock, center
12-1a	Beige 9" Floor Tile	No	Good	900 SF	5% Chrysotile	Building 1, north office by loading dock, southwest corner
12-1b	Mastic Below Beige 9" Floor Tile	No	Good	900 SF	10% Chrysotile	Building 1, north office by loading dock, southwest corner
13-1	Wall and Ceiling Tile Glue Dots	No	Good	700 SF	None Detected	Building 1, north office by loading dock, west wall
14-1	Tan With Blue Streaks 9" Floor Tile	No	Good	50 SF	None Detected	Building 1, bathroom near the northwest corner, hallway, center
15-1a	Orange Mottled Linoleum Flooring	No	Good	150 SF	None Detected	Building 1, by northwest bathroom, hallway, by door
15-1b	Fiber Backing Below Orange Mottled Linoleum	Yes	Good	150 SF	45% Chrysotile	Building 1, by northwest bathroom, hallway, by door
16-1a	Tan Mottled 12" Floor Tile	No	Good	250 SF	3% Chrysotile	Building 1, northwest storage room across from bathroom, by north door
16-1b	Mastic Below Tan Mottled 12" Floor Tile	No	Good	250 SF	None Detected	Building 1, northwest storage room across from bathroom, by north door
17-1	Wall and Ceiling Textured Paint	No	Good	1,800 SF	2% Chrysotile	Building 1, north offices, south wall, center
18-1	2x4' Drop Ceiling Tile With Dots & Fissures	Yes	Poor	800 SF	None Detected	Building 2, center north office, center
19-1	Drywall Joint Compound and Tape	No	Good	Throughout	None Detected	Building 2, center north office, southwest corner
20-1	Drywall Joint Compound and Tape	No	Good	Throughout	None Detected	Building 3, northwest corner of woman's bathroom

A description of the material samples, locations, and analytical results (including percentage and type of asbestos in each material), chain-of-custody sheets, and qualifications are presented in Appendix F.

Based on the presence of confirmed ACM and QORE's understanding that the subject property buildings are to be demolished, asbestos is considered to be a *business environmental risk* to the subject property due to the cost of asbestos abatement. The asbestos survey was not comprehensive and should not be relied upon in preparation of renovation or demolition projects. Prior to demolition/renovation activities or other activities that could potentially disturb suspect ACM, additional sampling and analysis of the materials using protocols specified in the AHERA should be performed. Alternatively, the material can be assumed to contain asbestos and treated accordingly.

Future activities that involve the disturbance or removal of confirmed or suspect ACM are required to be conducted in accordance with the NESHAP and other applicable local, state, and federal regulations.

7.5 Solid (Non-Hazardous) Waste

Solid waste dumpsters were not present on the subject property due to its lack of occupancy. The interiors of the subject property buildings contained debris left by tenants and brought into the buildings by vandals.

Review of historical information did not indicate past use of the subject property that would indicate private landfill, municipal landfill, oil recycling, or oil burning activities on the subject property. Review of regulatory databases did not indicate database listings for the subject property or adjoining properties that would be consistent with landfill activities.

7.6 Hazardous Materials/Hazardous Waste and Petroleum Products

Significant quantities of hazardous substances or petroleum products were not observed or reported to be present on-site.

Staining of soils and concrete other than typical parking lot staining, abnormally stressed vegetation, concrete etching, or other evidence of current and past chemical and petroleum product use was not observed or reported to be present on the subject property except as follows:

Ink staining was observed on the concrete floor in Building 4 in the area of the former printing presses. This staining was previously assessed by TRAK in 2004 as discussed in Section 5.1. Approximately 10 five-gallon containers of carbon black ink were observed in the entry to Building 1. At the time of QORE's site visit, one of the ink containers was observed to be spilled onto the concrete floor. The incident appeared to be recent since the ink was wet and limited in scope (less than one gallon). QORE was unable to locate a brand-specific MSDS for the ink. The spilled ink observed was not in the vicinity of a floor drain and was unlikely to reach a floor drain. Based on the amount of ink observed (less than one gallon), the likely non-hazardous nature of the ink, and the lack of floor drains in the vicinity of the spill, the ink staining observed near the entrance of Building 1 is considered a *de minimis* condition and not a *recognized environmental condition* to the subject property.

An abandoned wood lathe was observed in Building 1 with oil staining around the base on the end containing the motor. It was evident the motor oil had leaked from the motor of the lathe onto the concrete floor. The lathe motor was not expected to contain more than two to three quarts of oil. Floor drains were not observed in the vicinity of the wood lathe. The limited oil staining from the wood lathe is considered a *de minimis* condition and not a *recognized environmental condition* to the subject property.

At the time of QORE's site visit, oil staining was observed on the concrete near the compressor on the south side of Building 1. Similar staining was noted in the 2004 EP ESA, and a hand-auger boring was installed in the vicinity of the stain during the 2004 TRAK subsurface assessment. A soil sample was reportedly collected at one foot bgs and analyzed for TPH-diesel, TPH-oil, and VOCs. The analytes were reportedly not

detected during laboratory analysis, with the exception of 60 ppm TPH-oil. This detection is well below the most stringent Soil Screening Level of 1,000 ppm for TPH-oil (from a LARWQCB UST Closure guidance document). Based on QORE's on-site observations and the results of the 2004 shallow soil assessment in the area of the compressor, the limited staining is considered a *de minimis* condition and not a *recognized environmental condition* to the subject property.

7.7 Potential Polychlorinated Biphenyls (PCB) Containing Equipment

QORE observed four pad-mounted electrical transformers on the south side of Building 4. The transformers were in undamaged physical condition and displayed no visible evidence of leakage. The transformers were labeled as "Non-PCB Units." The apparent owning utility (Glendale Water and Power) typically is responsible for leaks or spills associated with its equipment.

QORE observed fluorescent light ballasts at various locations throughout the subject property buildings. Some ballasts were observed to be labeled "Non-PCB," but other ballasts were either not labeled "Non-PCB" or the labels were too far away to be read. Based on the age of the subject property buildings, PCB-containing fluorescent light ballasts may be present. Prior to demolition activities, the demolition contractor should remove the fluorescent light ballasts and mercury switches from the subject property buildings and dispose them in accordance with local, state, and federal regulations.

7.8 Water and Wastewater/Stormwater

7.8.1 Groundwater Resources

QORE did not observe uses of groundwater on the subject property. Groundwater monitoring wells, water supply wells, or irrigation wells were not observed or reported on the subject property. QORE installed four groundwater monitoring wells at the subject property as discussed in Section 7.15.

7.8.2 Surface Water

Pits, ponds, lagoons, or surface waters were not observed or reported to be present on the subject property. Surface water runoff from the subject property was expected to drain onto Fernando Court to the north, into a stormwater gutter along the southern property boundary, or onto Gardena Avenue to the east, then into curbside drops along West Los Feliz Avenue.

7.8.3 Wastewater

The City of Glendale provided sanitary sewer disposal services to the subject property area. Wastewater was not produced at the subject property at the time of QORE's site visit because the site was unoccupied. Historical industrial wastewater discharges, including at least two clarifiers and an indirect waste receptor, are discussed in Section 5.1 of this report.

Sumps or drains, other than floor drains in Building 1 and stormwater drains in the parking lot, were not observed or reported to be present on the subject property, with the

exception of those discussed in Section 5.1. QORE did not observe stains, foul odors, or evidence of improper disposal of material associated with these drains.

Evidence of septic tanks or leach fields was not observed or reported to be present on the subject property. Mr. Devorris was unaware of septic systems associated with the subject property. However, given the presence of businesses and residences on the subject property as early as 1908, it is likely that septic systems were utilized by the business occupants and residents. These septic systems were likely removed during previous redevelopments of the subject property. However, during future proposed construction activities, if a septic system is identified, QORE recommends proper closure and disposal of septic tanks discovered on-site, including notification of the appropriate governmental agencies.

7.9 Drinking Water

Drinking water for the subject property area was supplied by the City of Glendale. QORE reviewed the recent consumer confidence water system report for water distributed by the City of Glendale. Data published for 2006 did not identify health-based violations associated with lead in water supplied by this system.

7.10 Wetlands/Endangered Species

During the subject property reconnaissance, on-site marshy areas, ponds of water, low-lying areas, or streams were not identified by QORE or reported to exist by the property manager. It was noted that the subject property was paved or covered by buildings, with the exception of small landscaped areas. Review of historical aerial photographs, topographic maps, and the U.S. Fish & Wildlife Service National Wetlands Inventory Map did not indicate the presence of wetlands, ponds, lakes, or streams located on the subject property.

As indicated in Section 3.1, the subject property was not located within the 100-year floodplain.

7.11 Radon

According to the *EDR Radius Map with Geocheck, 465 Los Feliz*, Los Angeles County is located in EPA Radon Zone 2 (average indoor level between 2 pCi/L and 4 pCi/L). For properties in EPA Radon Zone 2, JPI's internal policy requires that, if a radon mitigation system is not included in the building design, radon testing of the residential structures must be conducted after construction.

7.12 Air Emissions

Obvious sources of regulated or non-regulated gaseous and particulate air emissions were not observed or reported to be present during the subject property reconnaissance.

7.13 Dry Cleaning Operations

On-site dry cleaning operations were not observed during the site reconnaissance. No dry cleaning operations were observed on adjoining and nearby properties.

7.14 Site-Specific Environmental Issues

Site-specific environmental issues are not included in QORE's assessment services for GECRE.

7.15 Phase II Environmental Assessment

7.15.1 Reasons for Conducting Phase II Assessment

QORE conducted a Phase II subsurface assessment that included the installation of four soil borings which were converted to groundwater monitoring wells. Sampling locations were selected in an attempt to identify the potential presence of petroleum or hazardous substances in groundwater associated with the subject property and/or nearby, up-gradient facilities. The sampling locations were positioned in up-gradient and down-gradient locations near the northern and southern subject property boundaries. Specific sampling locations were positioned so as not to interfere with the subject property improvements and in consideration of areas without access or room to maneuver a drilling rig. These inaccessible areas included the northern sides of Building 4 and the southern sides of Building 1. The approximate locations of the soil borings/monitoring wells are depicted on the Groundwater Laboratory Results figure in Appendix A. Groundwater samples were collected from each monitoring well and submitted for laboratory analysis of VOCs and TPH.

7.15.2 QORE's Phase II Assessment Objective

QORE conducted a Phase II subsurface assessment from October 24 through October 26, 2007 that included the installation of four soil borings which were converted to groundwater monitoring wells. QORE's objective was to collect groundwater samples in up-gradient and down-gradient locations in accessible areas near subject property boundaries. QORE intended to compare conditions in groundwater coming onto the subject property to conditions leaving the subject property in an attempt to identify contamination migrating onto the subject property; detect the potential on-site source areas that may have contributed to contamination, if present; and to assess off-site migration of contamination from the subject property in consideration of the limitations of site access.

7.15.2.1 Soil Sampling Activities

Prior to the field activities, QORE prepared a site-specific Health and Safety Plan. QORE exercised caution to prevent damage to subsurface structures, utilities, or other obstacles. Local public utility providers were contacted through a standard one-call system. QORE also obtained monitoring well construction permits from Los Angeles County.

A subcontracted drilling crew utilized a truck-mounted rotary drilling rig to install eight-inch outside diameter (OD) hollow-stem auger borings to total depths of approximately 70 feet bgs as depicted on the Site Plan and Boring Logs. Soil cores were collected either continuously or at approximate five-foot intervals during advancement of the soil borings utilizing 1.5- and two-foot core barrels. Organic vapor concentrations were estimated by headspace screening of the soil cores at intervals utilizing a PID (Mini-Rae 2000 Photoionization Detector). PID readings from these samples ranged from background to 548 needle deflection units (approximately ppm). QORE made observations of the soil

types encountered in each of the borings continuously to depths of 25 feet bgs, and in MW-3 to the total depth of 70 feet bgs. Soils were collected and observed at five-foot intervals from 25 feet bgs to 50 feet bgs in the three borings that were not sampled continuously. Soil material at the subject property consisted of sandy or silty clay from the ground surface to approximately seven to 13.5 feet bgs, followed by interbedded layers of silty clay, sandy clay, clayey sand, sand, gravel, and sand with gravel and cobbles to total boring depths of 70 feet bgs.

Soil samples were collected from borings MW-1 through MW-4 at selected depths and held pending groundwater laboratory analysis. The soil samples were transferred to laboratory-prepared glass containers, secured with Teflon lined lids, labeled, placed in an insulated container with ice, and transported to Calscience Laboratories, Inc. in Garden Grove, California, accompanied by completed chain-of-custody and analytical request documentation. Because the locations of the borings were not in areas known to be source areas, these samples were placed on hold and were not analyzed.

The remaining soil not collected for submittal to the analytical laboratory and the soil cuttings generated during the drilling activities were placed in 19 55-gallon drums as investigation-derived waste (IDW). These closed and labeled drums were stored on-site pending results of laboratory analysis.

Before, during, and after installation of each soil boring, the drilling augers, core barrels, and other non-disposable sampling tools were decontaminated utilizing a power washer. The wash water generated during the decontamination procedure was collected in two closed, labeled 55-gallon drums as IDW.

7.15.2.2 Groundwater Monitoring Well Installation

Upon completion of the soil boring and soil sampling activities, the borings were converted to two-inch diameter, Schedule 40 PVC, permanent groundwater monitoring wells (MW-1 through MW-4) to total depths of 70 feet bgs. The monitoring wells were constructed as illustrated in the well boring logs (Appendix I) and in accordance with the requirements of Los Angeles County. Groundwater was encountered from 48 feet to 52 feet bgs.

Following installation of the groundwater monitoring wells, each monitoring well was developed prior to groundwater sampling. Wells were developed by purging at least three casing volumes utilizing a new, single-use, dedicated PVC bailer and/or a decontaminated submersible pump with new, single-use, dedicated tubing. This process was intended to remove groundwater disturbed during well installation, reduce the quantity of suspended solids, and facilitate the collection of groundwater samples more representative of formation fluids. Approximately 15 to 20 gallons of groundwater were purged from each of the monitoring wells prior to sample collection. The purged groundwater IDW was collected and secured in two closed, labeled 55-gallon drums as described above, awaiting analytical results.

Groundwater samples were collected from each of the monitoring wells utilizing new, dedicated, disposable PVC bailers. The groundwater samples were transferred from the bailers into laboratory-prepared glass containers (containing appropriate chemical preservatives), secured with Teflon lined lids, labeled, and placed in an insulated container

with ice. The groundwater samples were transported and submitted for laboratory analysis as described previously.

7.15.2.3 Analytical Results

Groundwater samples from the October 2007 sampling event were collected and submitted for analysis from each of the four monitoring wells. The groundwater samples were analyzed for VOCs (EPA Method 8260b), and TPH (EPA Method 8015B [M]). The groundwater sample results and comparison criteria are presented in the Groundwater Analytical Data table.

Groundwater samples from the October 2007 sampling event did not indicate the presence of TPH in the groundwater wells with the exception of TPH-diesel at 64 ppb in MW-3, and TPH-gasoline at 68 ppb and TPH-diesel at 120 ppb in MW-4. The ESL for TPH-diesel is 100 ppb. With the exception of the 120 ppb TPH-diesel in MW-4, these low concentrations were below the ESL for groundwater deeper than three meters from the ground surface in an area where groundwater is a current or a potential source of drinking water. A MCL for TPH had not been established by the State of California.

Groundwater samples from the October 2007 sampling event did not indicate the presence of VOCs exceeding MCLs in the groundwater wells with the exception of PCE in MW-1 (26 ppb) and MW-4 (9.6 ppb) compared to the ESL and MCL of 5 ppb. PCE was detected at lower concentrations (below the ESL and MCL) in MW-2 (3.7 ppb) and MW-3 (3.9 ppb).

Other notable VOCs detected in the groundwater included TCE and Toluene. TCE was detected in MW-1 (4.6 ppb) and MW-4 (2.3 ppb) below the TCE MCL and ESL of 5 ppb. Toluene was detected in MW-2 (6.8 ppb), MW-3 (1.6 ppb), and MW-4 (24 ppb) below the MCL (150 ppb) and ESL (40 ppb).

Other VOCs which included chloroform and its daughter products were detected at concentrations significantly below their respective ESLs. MCLs were not established by the State of California for these chemicals. Chloroform has a number of uses, most notably in dyes. However, chloroform was not listed in the MSDS sheets provided for the former on-site printer and is not likely attributable to an on-site source.

The laboratory data sheets and chain-of-custody documentation are also included in Appendix H.

7.15.3 Comparison Criteria

PRGs were not developed for groundwater by the U.S. EPA Region IX. Therefore, QORE compared the results of the assessment to the California Department of Health Services MCLs and also to the San Francisco Bay Regional Water Quality Control Board ESLs. The MCLs were established as allowable concentrations for contaminants in drinking water. MCLs are commonly utilized as non-enforceable criteria for screening as a point of reference for evaluation of groundwater data.

Remediation of soil and groundwater in California is typically driven by human health exposure/risk calculated on a site-specific basis. To create a more general health-based standard, the San Francisco Regional Water Board formulated ESLs to screen detected

chemicals from further concern when the concentrations are not considered to be harmful to human health under a wide range of conditions. The San Francisco Regional Water Board ESLs are commonly utilized as conservative screening criteria for impact to groundwater across the state.

QORE considers that the current ESLs are applicable screening criteria for groundwater at the subject property. QORE notes that future development activities at the subject property are not expected to result in conditions that are less protective than conditions that would result from typical residential development considered in calculating the existing ESLs. Specifically, depth to groundwater is at least 50 feet, there are no planned subsurface living areas or subsurface garages, and there is no planned or anticipated use of groundwater at the subject property. Both MCLs (for available constituents) and ESLs have been included as comparison criteria on the Groundwater Analytical Data table.

7.15.4 Conclusions of QORE's Subsurface Assessment

QORE's Phase I ESA identified multiple suspect *recognized environmental conditions* associated with current and historical uses of the subject property and nearby properties. In an attempt to assess groundwater conditions flowing onto and from the subject property, QORE conducted a Phase II subsurface assessment that included installation of four soil borings converted to groundwater monitoring wells and collection of groundwater samples from each of the four borings/monitoring wells for VOCs and TPH analysis.

- Groundwater samples from the October 2007 sampling event did not indicate the presence of TPH in the groundwater wells with the exception of TPH-diesel at 64 ppb in MW-3 and TPH-gasoline at 68 ppb and TPH-diesel at 120 ppb in MW-4. With the exception of the 120 ppb TPH-diesel in MW-4, these low concentrations were below the most stringent ESL of 100 ppb TPH-D. The presence of gasoline and diesel/or diesel in MW-3 and MW-4 (down-gradient wells) and not in MW-1 and MW-2 (up-gradient wells) indicate an on-site source for the petroleum detected in groundwater.
- Groundwater samples from the October 2007 sampling event did not indicate the presence of VOCs exceeding MCLs in the groundwater wells with the exception of PCE (MCL 5 ppb) in MW-1 (26 ppb) and MW-4 (9.6 ppb). TCE was detected in MW-1 (4.6 ppb) and MW-4 (2.3 ppb) below the ESL and MCL for TCE (5 ppb). The decreasing concentrations of PCE and TCE from MW-1 (up-gradient) to MW-4 (down-gradient) indicate an off-site, up-gradient source. However, the concentrations of PCE in MW-1 and MW-4, without similar concentrations in MW-2 and MW-3, indicate the PCE in these two wells is likely from a local offsite, up-gradient source in addition to impact associated with the regional groundwater plume. PCE was detected in MW-2 (3.7 ppb) and MW-3 (3.9 ppb); these low detections below the ESL and MCL for PCE are likely attributable to the regional groundwater plume.
- Toluene was detected at levels well below the MCL (150 ppb) and ESL (40 ppb) in MW-2 (6.8 ppb), MW-3 (1.6 ppb), and MW-4 (24 ppb). These detections are likely attributable to a combination of on-site and off-site sources of petroleum.

Other VOCs were detected at concentrations significantly below their respective ESLs; MCLs were not established for these chemicals. These constituents were generally chloroform and its daughter products. Chloroform has a number of uses, most notably in dyes. However, chloroform was not listed in the MSDS sheets provided for the former on-site printer, and the low detections in groundwater were not expected to be attributable to an on-site source.

Based on the results of QORE's subsurface assessment, the documented historical gasoline service stations/fuel storage on the southwestern and southeastern portions of the subject property present *recognized environmental conditions* to the subject property.

Based on the results of QORE's subsurface assessment, the chlorinated solvent (PCE and TCE) detections in groundwater at the subject property indicating impact from one or more nearby up-gradient sources, as well as the regional groundwater plume, present a *recognized environmental condition* to the subject property.

QORE identified several of the prior on-site tenants that were not considered to be a suspect *recognized environmental condition* as the companies did not appear to have utilized or stored significant quantities of chemicals. QORE based this conclusion on several factors including the name of the company, time period of occupancy, whether the company was listed on the regulatory database, information presented in prior reports and information on the Sanborn Maps. The results of the Phase II subsurface assessment further supports the conclusion that these prior occupants of the subject property did not present a suspect *recognized environmental condition*.

8.0 REVIEW OF NEARBY/ADJACENT PROPERTIES

Observed current uses of adjoining properties are discussed below according to their respective geographic relationship to the subject property.

Northwest

The subject property was bordered to the northwest by Fernando Court, followed by multiple office-warehouses occupied by (from west to east) Topanga Lumber and Hardware (distribution), Temperature Technology Heating and Air Conditioning (repair services), Project Achieve (homeless shelter), and Glendale Studios (production company).

North

The subject property was bordered to the north by the intersection of Fernando Court and Gardena Avenue, followed by Nova Automotive and Mechanical Concepts. Both of these tenants were identified during regulatory database review as suspect *recognized environmental conditions* and are discussed in Section 6.1.

Northeast

The subject property was bordered to the northeast by Gardena Avenue, followed by (from north to south) Trans Aid Ambulance and Gateway Animal Hospital. Trans Aid Ambulance was an ambulance service with no visual indications of vehicle maintenance at the facility.

Southeast

The subject property was bordered to the southeast by West Los Feliz Road, followed by Technicolor. According to the Technicolor web page, this location of Technicolor mainly performed sound design and restoration activities for the entertainment industry. QORE's observations of the Technicolor facilities did not indicate manufacturing activities or significant chemical storage.

Southwest

The subject property was bordered to the southwest by a Southern Pacific Railroad easement, followed by a parking lot for Costco and other nearby retail businesses.

Other than as indicated above, no current adjoining land uses were observed during the area reconnaissance to be a suspect *recognized environmental condition* with respect to the subject property. Historical usage of adjoining properties is discussed in Sections 5.2 and 6.1.

9.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the information obtained by QORE to date, known or suspect *recognized environmental conditions* associated with the subject property are summarized as follows:

- QORE's Phase I ESA identified multiple suspect *recognized environmental conditions* associated with current and historical uses of the subject property and nearby properties. These included the potential presence of former facilities that utilized USTs on the northeast, southeast and southwest portions of the subject property, a former vehicle maintenance facility (Byron's) on the northwest portion of the subject property, a former printer located on the southeast portion of the subject property, Glendale Rotary Offset Printers located on the northeast portion of the subject property and clarifiers associated with prior food processing companies on the southwest portion of the subject property. QORE also identified regulatory listings for two prior on-site tenants that were considered to be suspect recognized environmental conditions: Chef's Select, and Mountain Valley Water Company.

Prior assessment conducted by TRAK in 2004 and EP Associates in 2005 included installation of over 60 soil borings, the collection and analysis of soil samples throughout the subject property and geophysical surveys in the northwest, southwest and southeast portions of the subject property. The TRAK and EP investigations did not identify impact exceeding regulatory screening criteria in the soil samples. The geophysical surveys identified three anomalies on the southeast portion of the subject property, two of which were suspected to be USTs. Based on the information obtained during QORE's Phase I ESA, including review of the prior assessment results, QORE concluded that prior gasoline service stations/fuel storage activities on the southwest and southeast portions of the subject property were *recognized environmental conditions*.

- Tetrachloroethylene (PCE) was identified in two borings during the 2004 TRAK assessment at concentrations well below the Environmental Screening Limits (ESL) and the California Preliminary Remediation Goal (PRG) for PCE in

Residential Soil. QORE has not identified a specific on-site source of PCE. However, PCE could have been present in a cleaning solvent used by one of the former subject property tenants. QORE considers the detected concentrations of PCE to be a *de minimis* condition. However, the presence of PCE in shallow soil indicates a potential on-site source. It may be difficult to demonstrate that the subject property did not contribute to the documented chlorinated solvent regional groundwater plume. Based on depth to groundwater and the low levels of PCE detected in soil, it is unlikely that the subject property has significantly contributed to the regional groundwater plume.

- QORE identified several regulatory facilities on adjoining properties to the northwest and north of the subject property to be suspect *recognized environmental conditions* due to the long term use of petroleum products and/or hazardous substances. QORE also noted that the subject property was located within the San Fernando Valley (Crystal Spring Wellfield) NPL chlorinated solvent plume where Lockheed Martin has been identified as the primary responsible party. Based on facility specific characteristics, depth to groundwater, distance and/or topographic gradient, the remaining regulatory facilities in the subject property vicinity were not considered to be *recognized environmental conditions*.
- In an attempt to assess groundwater conditions flowing onto and from the subject property, QORE conducted a Phase II subsurface assessment that included installation of four soil borings converted to groundwater monitoring wells and collection of groundwater samples from each of the four borings/monitoring wells for Volatile Organic Compounds (VOCs) and Total Petroleum Hydrocarbon (TPH) analysis.
 - Groundwater samples from the October 2007 sampling event did not indicate the presence of TPH in the groundwater wells with the exception of TPH-diesel at 64 ppb in MW-3 and TPH-gasoline at 68 ppb and TPH-diesel at 120 ppb in MW-4. With the exception of the 120 ppb TPH-diesel in MW-4, these low concentrations were below the most stringent Environmental Screening Level (ESL). The presence of gasoline and diesel/or diesel in MW-3 and MW-4 (down-gradient wells) and not in MW-1 and MW-2 (up-gradient wells) indicate an on-site source for the petroleum detected in groundwater.
 - Groundwater samples from the October 2007 sampling event did not indicate the presence of VOCs exceeding the ESL and MCL in the groundwater wells with the exception of PCE in MW-1 (26 ppb) and MW-4 (9.6 ppb) compared to the PCE ESL and MCL of 5 parts per billion (ppb). Trichloroethene (TCE) was detected in MW-1 (4.6 ppb) and MW-4 (2.3 ppb) below the ESL and MCL for TCE (5 ppb). The decreasing concentrations of PCE and TCE from MW-1 (up-gradient) to MW-4 (down-gradient) indicate an off-site, up-gradient source. However, the high concentrations of PCE in MW-1 and MW-4, without similar concentrations in MW-2 and MW-3, indicate the PCE in these two wells is likely from a local, up-gradient source separate from the impact associated with the regional groundwater plume.

- PCE was detected in MW-2 (3.7 ppb) and MW-3 (3.9 ppb); these low detections below the ESL and MCL for PCE are likely attributable to the regional groundwater plume associated with the San Fernando Valley (Crystal Spring Wellfield) NPL site.
- Toluene was detected at levels well below the ESL and MCL (150 ppb) in MW-2 (6.8 ppb), MW-3 (1.6 ppb), and MW-4 (24 ppb). These detections are likely attributable to a combination of on-site and off-site sources of petroleum.

Other VOCs were detected at concentrations significantly below their respective ESLs; MCLs were not established for these chemicals. These constituents were generally chloroform and its daughter products. Chloroform has a number of uses, most notably in dyes. However, chloroform was not listed in the MSDS sheets provided for the former on-site printer, and the low detections in groundwater were not expected to be attributable to an on-site source.

- The results of QORE's subsurface assessment supported QORE's conclusion that the documented historical gasoline service stations/fuel storage on the southwest and southeast portions of the subject property present *recognized environmental conditions* to the subject property.

Based on the results of QORE's subsurface assessment, the chlorinated solvent (PCE and TCE) detections in groundwater at the subject property indicated impact from one or more local up-gradient sources, as well as the regional groundwater plume associated with the San Fernando Valley (Crystal Springs Wellfield) NPL site. This finding confirmed that the up-gradient local regulated facilities including Mechanical Engineering Company, Mechanical Concepts, Inc. (Concepts), Nova Automotive (Nova) and Fleming Jacquet & Miller, Inc. (Fleming), and the San Fernando Valley (Crystal Springs Wellfield) NPL plume identified as suspect recognized environmental condition were *recognized environmental conditions* to the subject property.

As listed in Section 5.1, QORE identified several of the prior on-site tenants that were not considered to be a suspect *recognized environmental condition* as the companies did not appear to have utilized or stored significant quantities of chemicals. QORE based this conclusion on several factors including the name of the company, time period of occupancy, whether the company was listed on the regulatory database, information presented in prior reports and information on the sanborn maps. The results of the Phase II subsurface assessment further supports the conclusion that these prior occupants of the subject property did not present a suspect *recognized environmental condition*.

- The on-site improvements were constructed prior to 1979 and may contain damaged lead-based paint. QORE understands that demolition of the buildings is planned and future occupancy is not expected. If manual demolition (hand scraping, blowtorching, etc.) of the subject property buildings occurs, a demonstration that the paint does not contain lead will be warranted, or JPI can assume the paint contains lead and treat it accordingly.

- QORE conducted a limited asbestos survey of the subject property that identified the presence of asbestos in flooring and wall and ceiling systems. Based on the presence of confirmed asbestos-containing materials (ACM) and QORE's understanding that the subject property buildings are to be demolished, asbestos is considered to be a *business environmental risk* to the subject property due to the cost of asbestos abatement. The asbestos survey was not comprehensive and should not be relied upon in preparation of renovation or demolition projects. Prior to demolition/renovation activities or other activities that could potentially disturb suspect ACM, additional sampling and analysis of the materials using protocols specified in the AHERA should be performed. Alternatively, the material can be assumed to contain asbestos and treated accordingly. Future activities that involve the disturbance or removal of confirmed or suspect ACM are required to be conducted in accordance with the NESHAP and other applicable local, state, and federal regulations.
- According to the *EDR Radius Map with Geocheck, 465 Los Feliz*, Los Angeles County is located in EPA Radon Zone 2 (average indoor level between 2 pCi/L and 4 pCi/L). For properties in EPA Radon Zone 2, JPI's internal policy requires that, if a radon mitigation system is not included in the building design, radon testing of the residential structures must be conducted after construction.
- QORE conducted assessments of lead-in-drinking water, wetlands, and air emissions in accordance with the JPI/GECRE scope of work. No *business environmental risks* associated with the scope of work issues were identified by QORE.

QORE has performed a Phase I and II ESA and Additional Services of 465 Los Feliz, located at 435 to 465 West Los Feliz Road and 434 to 450 Fernando Court in Glendale, Los Angeles County, California in general conformance with the scope and limitations of the GECRE scope of work, the JPI MECA and ASTM Practice E 1527-05. Exceptions to, or deletions from, this practice are described in Section 10.0 of this report.

Based upon the information obtained, as reflected in this report, this assessment has revealed evidence of *recognized environmental conditions* in connection with the subject property:

- The presence of potential USTs, and petroleum detections in groundwater at the subject property indicating impact from former on-site gasoline service stations/fuel storage activities; and
- The presence of chlorinated solvent (PCE and TCE) detections in groundwater at the subject property indicating impact from one or more up-gradient sources, as well as the regional groundwater plume.

QORE recommends trenching on the southwestern portion of the subject property in an attempt to locate USTs or material soil impact associated with former USTs. QORE recommends that the three subsurface anomalies identified on the southeastern portion of the subject property be further assessed, even though only two were considered to be potential USTs. If USTs, buried features and/or impacted soil is identified, they should be removed in accordance with state and federal regulations.

One and possibly more clarifiers may be present on-site. Local regulations require that the removal of the clarifiers be permitted through the Glendale Fire Department. QORE recommends that the clarifiers be removed prior to redevelopment of the subject property in accordance with applicable regulations. QORE notes that there is potential for localized soil impact in the vicinity of the clarifiers. This potential soil impact is not expected to be significant because the use of the clarifiers appears to have been restricted to food processing companies. If such impact is identified during redevelopment activities, the impacted soil should be disposed in accordance with local, state, and federal regulations.

QORE identified prior activities that utilized petroleum substances and may have resulted in localized soil impact. If such impact is identified during redevelopment activities, the impacted soil should be disposed in accordance with local, state, and federal regulations.

QORE does not recommend additional assessment of the chlorinated solvents detected in groundwater. Based on the low concentrations detected and that groundwater was noted during QORE's assessment to be 48 to 52 feet bgs, the detected concentrations are not considered to present a risk to future occupants of the subject property. If JPI's development plans result in excavation activities that will require dewatering activities, JPI should include sufficient budget to treat the groundwater prior to discharging or to obtain a permit from the city to discharge into the sanitary sewer.

10.0 DATA GAPS AND DEVIATIONS

Data gaps are defined as a lack of or inability to obtain information required by this practice despite good faith efforts. Significant data gaps that affected the ability of the environmental provisional to identify *recognized environmental conditions* were not identified.

Known deviations or deletions from the scope of work defined by the GE/JPI scope or work and/or ASTM E 1527-05 include the following:

QORE has modified the report format requested by GE and ASTM E 1527-05.

The earliest reasonably available historical source reviewed was from 1908. QORE was unable to research the subject property back to its first development. However, based on QORE's findings, it does not appear that this data failure would change the findings, opinion, conclusions or recommendations.

11.0 REFERENCES

- *Burbank, California Quadrangle*, U.S. Geological Survey (USGS) 7.5 minute series Topographic Map, dated 1994;
- *Soil Survey of Los Angeles County, California*, United States Department of Agriculture, Natural Resources Conservation Service (formerly Soil Conservation Service), dated 1969;

- *EDR-Radius Map with Geocheck*, 465 Los Feliz, Inquiry Number 2037078.2s, dated September 25, 2007;
- Aerial photographs purchased from EDR, dated 1928, 1938, 1940, 1956, 1965, 1976, 1989, 1994, and 2002;
- Aerial photograph obtained from Google Earth, dated 2006;
- Glendale, Burbank, and Crescenta Street Address Directories, dated 1955, 1961, 1964, and 1967, reviewed at the Sherman Gardens Library in Corona Del Mar, California;
- Haines Criss-Cross Reference Directories, dated 1971, 1976, 1981, 1986, 1991, 1995, 2000, and 2005, reviewed at the Haines facility in Fullerton, California;
- Historical Sanborn Fire Insurance Maps purchased from EDR, dated 1908, 1919, 1925, 1950, and 1970;
- Environmental Lien Search purchased from Banks Environmental Data, dated October 3, 2007;
- *Phase I Environmental Site Assessment*, 465 West Los Feliz Road and 434-450 Fernando Court, Glendale, California, EP Project No. 13350201, dated July 14, 2004, prepared by EP Associates;
- *Report of Environmental Investigation*, 465 West Los Feliz Road and 434-450 Fernando Court, Glendale, California, dated November 20, 2004, prepared by TRAK Environmental Group;
- *Preliminary Soils Engineering Investigation for Proposed Four to Six-Story Mixed-Use Commercial/Residential Building with Three-Level Subterranean Garage*, 435 West Los Feliz Road, Glendale, California, GeoSystems Project No. GS04-1026, dated December 17, 2004, prepared by GeoSystems, Inc.;
- *Addendum Phase I Environmental Site Assessment Report*, 465 West Los Feliz Road and 434-450 Fernando Court, Glendale, California, EP Project No. 13350201, dated April 19, 2005, prepared by EP Associates;
- *Subsurface Geophysical and Soil Investigation*, 465 West Los Feliz Road, Glendale, California, EP Project No. 13350202, dated June 24, 2005, prepared by EP Associates;
- Regulatory files obtained from the DTSC web page for multiple facilities;
- Regulatory file information for the subject property obtained from the Glendale Fire Department;

- Regulatory files for the San Fernando Valley NPL site obtained from the U.S. EPA;
- National Wetland Inventory Map for the subject property area;
- 2006 Water Quality Report published by the City of Glendale Water and Power department;
- Legal description of the subject property in a Preliminary Report by Chicago Title Company;
- Evaluation of Low- and Non-VOC Technologies: Application to South Coast Air Quality Management District Cleaning Rules, dated September 1999, obtained from <http://home.earthlink.net/~irta/rprt0007.html>;
- Printing industry information obtained from Printer's National Environmental Assistance Center at <http://www.pneac.org>;
- Interviews with Mr. Guy Devorris, subject property owner;
- Interview with Mr. David Stensby of the U.S. EPA;
- Interview with Dr. Arthur Heath of the LARWQCB;
- Interviews with Captain Tom Propst and Ms. Loni Calitri of the Glendale Fire Department;
- Interview with Ms. Maria (last name withheld) of Mountain Valley Water Company; and
- Interview with the receptionist (name withheld) at Mason Electric Company.

12.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONAL(S)

I declare that, to the best of my professional knowledge and belief, I meet the definition of an environmental professional as defined in Section 312.10 of 40 CFR 312, and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 3.12.



Amy Smith
Environmental Professional

13.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL(S)

In accordance with ASTM E 1527-05, this report includes the qualifications of the environmental professional, and the qualifications of the personnel conducting the subject property reconnaissance and interviews, if conducted by someone other than an environmental professional. These qualifications are documented in Appendix F.

The following is a list of selected acronyms and abbreviations that may have been used in the preceding report:

Federal Databases

CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CERCLIS-NFRAP	"No Further Remedial Action Planned" CERCLIS Sites
CONSENTCERCLA	Consent Decrees
CORRACTS	Corrective Action Sites
Delisted NPL	National Priority List Deletions
DOD	Department of Defense Sites
ENG CONTROLS	Engineering Controls
ERNS	Emergency Response Notification System
FIFRA	Federal Insecticide Fungicide Rodenticide Act
FINDS	Facility Index System
FRDS	Federal Reporting Data System
FTTS	FIFRA/TSCA Tracking System
FUDS	Formerly Used Defense Sites
FURS	Federal Underground Injection Control
HMIRS	Hazardous Materials Information Reporting System
INST CONTROL	Sites with Institutional Controls
MINES	Mines Master Index File
MLTS	Material Licensing Tracking System
NPL	National Priorities List (Superfund)
NPL Recovery	Federal Superfund Liens
ODI	Open Dump Inventory
PADS	PCB Activity Database System
PCS	Permit Compliance System
Proposed NPL	Proposed National Priority List Sites
RAATS	RCRA Administrative Action Tracking System
RCRAInfo	Resource Conservation and Recovery Act Information System
RCRA-LQG	RCRA Large Quantity Generators
RCRA-SQG	Small Quantity Generators
RCRA-TSDF	RCRA Treatment, Storage and Disposal Facilities
ROD	Record of Decision
SIA	Surface Impoundments
SSTS	Section 7 Tracking Systems
TSCA	Toxic Substances Control Act Database
UMTRA	Uranium Mill Tailings Sites
TRIS	Toxic Chemical Release Inventory System

California State, Local, and Tribal Databases

AST	Above-ground Storage Tank Database
CA FID	Facility Inventory Database
CA SLIC	Spills, Leaks, Investigation, and Cleanup Listings

CORTESE
DTSC
DWP
EMI
HIST Cal-Sites
INDIAN RESERV
INDIAN UST
HAZNET
DEED
LARWQCB
LUST
ENVIROSTOR
SWEEPS

SWF/LF
SWRCY
VCP
WIP
UST
CHMIRS

General Terms

ACM	Asbestos-containing material
AHERA	Asbestos Hazard Emergency Response Act
AST	Above-ground storage tank
ASTM	American Society for Testing and Materials
AUL	Activity and use limitation
Bgs	Below ground surface
BTEX	Benzene, Toluene, Ethyl benzene, Xylene
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CFR	Code of Federal Regulations
EPCRA	Emergency Planning and Community Right to Know Act (SARA Title III)
ESA	Environmental Site Assessment
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Maps
FOIA	United States Freedom of Information
FR	Federal Register
IAQ	Indoor Air Quality
LLPs	Landowner liability protections
MCLs	Maximum Concentration Limits
MSDS	Material Safety Data Sheet
NCP	National Contingency Plan
NESHAP	National Emission Standard for Hazardous Air Pollutants
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
NWI	National Wetlands Inventory
O&M	Operations & Maintenance Program

Hazardous Waste & Substances Sites List
Department of Toxic Substances Control
Department of Water and Power
Emissions Database
Historical Calsites Database
Indian Reservations
USTs on Indian Land
Facility and Manifest Data
Deed Restriction Listing
Los Angeles Regional Water Quality Control Board
Leaking Underground Storage Tank Incident Reports
State Superfund Registry
Statewide Environmental Evaluation and Planning System Database
Solid Waste Facilities/Landfill Sites
Listing of Recycling Facilities in California
Voluntary Cleanup Sites
Well Investigation Program
Underground Storage Tank Database
California Hazardous Material Incident Report System

General Terms

OSHA	Occupational Safety and Health Administration
OMV	Organic Vapor Meter
PACM	Presumed asbestos-containing material
PAHs	Polynuclear aromatic hydrocarbons
PCBs	Polychlorinated biphenyls
PCL	Protective Concentration Levels
PRP	Potentially Responsible Party
RACM	Regulated asbestos-containing material
SARA	Superfund Amendments and Reauthorization Act of 1986
SHPO	State Historic Preservation Office
TCEQ	Texas Commission of Environmental Quality
TPH	Total Petroleum Hydrocarbons
TCLP	Toxicity Characteristic Leaching Procedure
TRRP	Texas Risk Reduction Program
US EPA	United States Environmental Protection Agency
USACE	United States Army Corps of Engineers
USC	United States Code
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UST	Underground storage tank
VOC	Volatile Organic Compound

Table

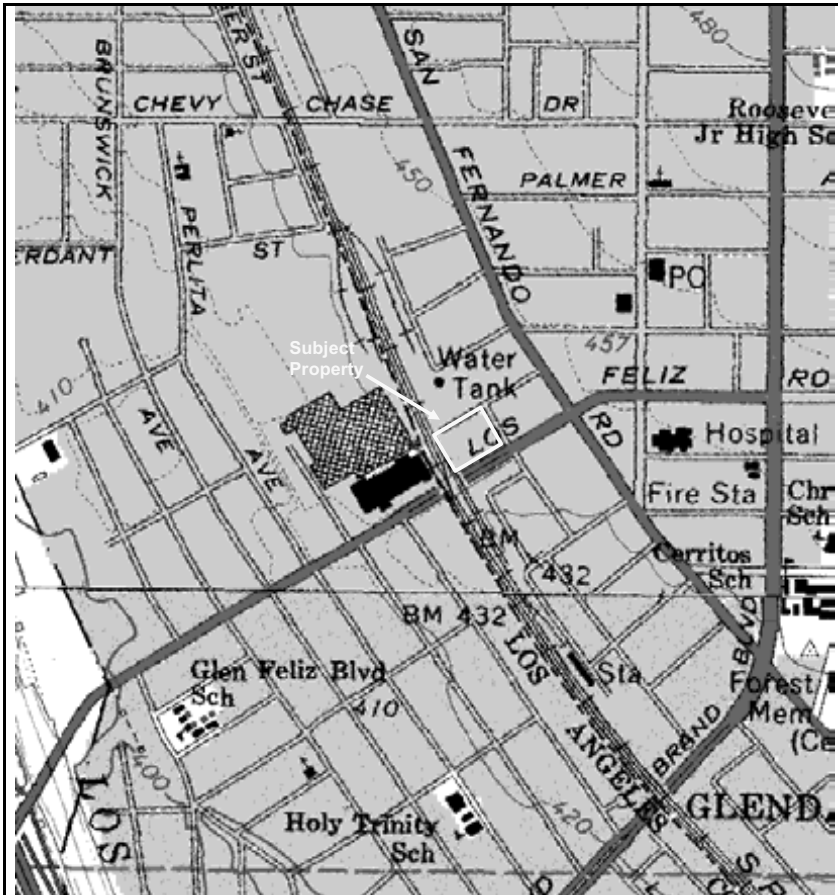
Table 1
Groundwater Analytical Data

Analyte	Sample Location			MW-1 water			MW-2 water			MW-3 water			MW-4 water			
	Units	Sample Date		10/26/2007		10/26/2007		10/26/2007		10/25/2007		10/26/2007				
		ESL	MCL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag			
Volatile Organic Compounds (260B)	Bromodichloromethane	µg/L	100	NA	ND	1.0	---	1.2	1.0	---	ND	1.0	---	ND	1.0	---
	Bromofom	µg/L	100	NA	ND	1.0	---	1.2	1.0	---	ND	1.0	---	ND	1.0	---
	Chloroform	µg/L	70	NA	1.4	1.0	---	1.7	1.0	---	1.2	1.0	---	1.4	1.0	---
	Dibromochloromethane	µg/L	100	NA	ND	1.0	---	1.8	1.0	---	ND	1.0	---	ND	1.0	---
	Dichlorodifluoromethane	µg/L	300*	NA	ND	1.0	---	1.7	1.0	---	1.9	1.0	---	ND	1.0	---
	Tetrachloroethene	µg/L	5	5	26	1.0	---	3.7	1.0	---	3.9	1.0	---	9.5	1.0	---
	Toluene	µg/L	40	150	ND	1.0	---	6.8	1.0	---	1.6	1.0	---	24	1.0	---
	Trichloroethene	µg/L	5	5	4.6	1.0	---	ND	1.0	---	ND	1.0	---	2.3	1.0	---
	Gasoline	µg/L	100	NA	ND	50.00	---	ND	50.00	---	ND	50.00	---	68	50.00	---
	Diesel	µg/L	100	NA	ND	50.00	---	ND	50.00	---	64	50.00	---	120	50.00	---

Legend:

- Only those constituents detected are reported.
- RL - Reporting Limit
- ND - Analyte not detected at or above the reporting limit.
- NA - No MCL for this compound.
- ESL - Environmental Screening Level established by the California Regional Water Quality Control Board
- MCL - California Department of Health Services Maximum Contaminant Levels for Drinking Water
- *Dibromodifluoromethane did not have an ESL; comparison criteria provided is the Region 9 PRG for tap water.
- 68.9 - Analyte detected above laboratory reporting limit
- 550 - Analyte detected above ESL/MCL

Appendix A Figures



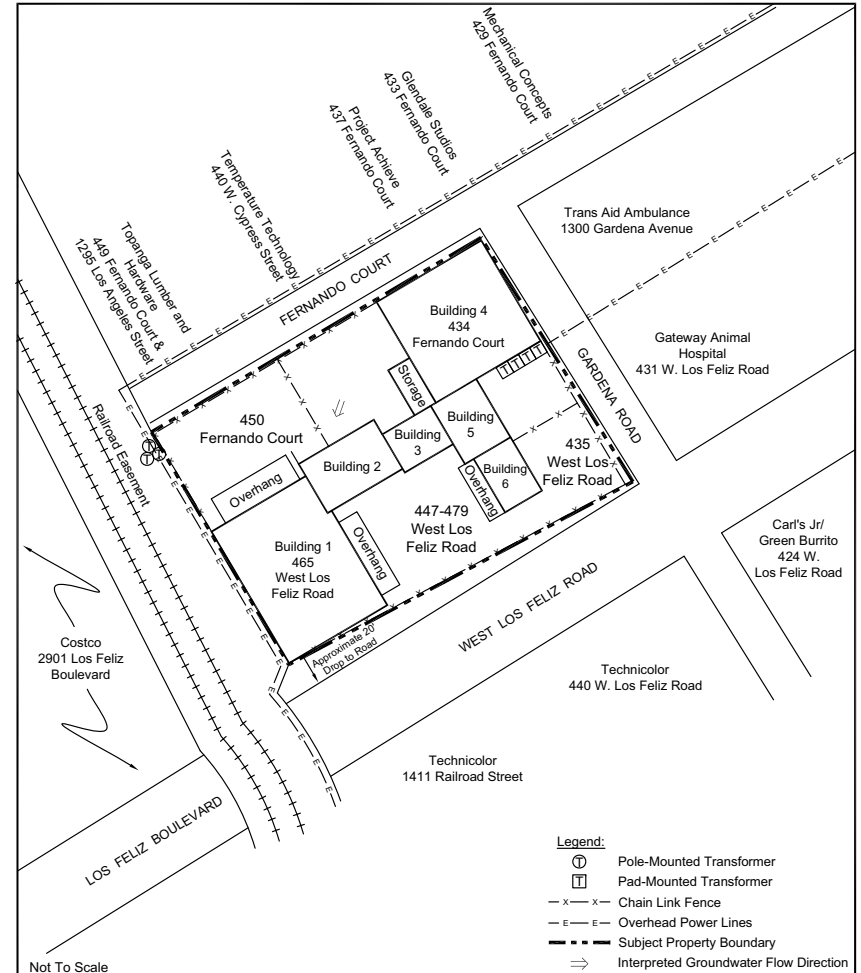
Source: Burbank, California USGS 7.5 minute series Topographic Map, dated 1994
 Scale: 1"=785'

SITE (VICINITY) MAP

465 LOS FELIZ
 465 LOS FELIZ ROAD AND 434-450 FERNANDO COURT
 GLENDALE, CALIFORNIA 91204

QORE Project 150-1421

N



SITE PLAN

465 LOS FELIZ
 435-465 WEST LOS FELIZ ROAD AND
 434-450 FERNANDO COURT
 GLENDALE, CALIFORNIA 91204

QORE Project 150-1421

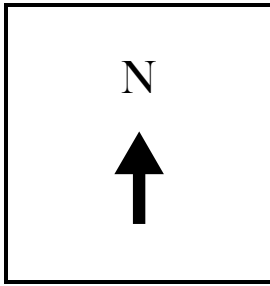
N

- Legend:**
- Pole-Mounted Transformer
 - Pad-Mounted Transformer
 - Chain Link Fence
 - Overhead Power Lines
 - Subject Property Boundary
 - Interpreted Groundwater Flow Direction

Not To Scale



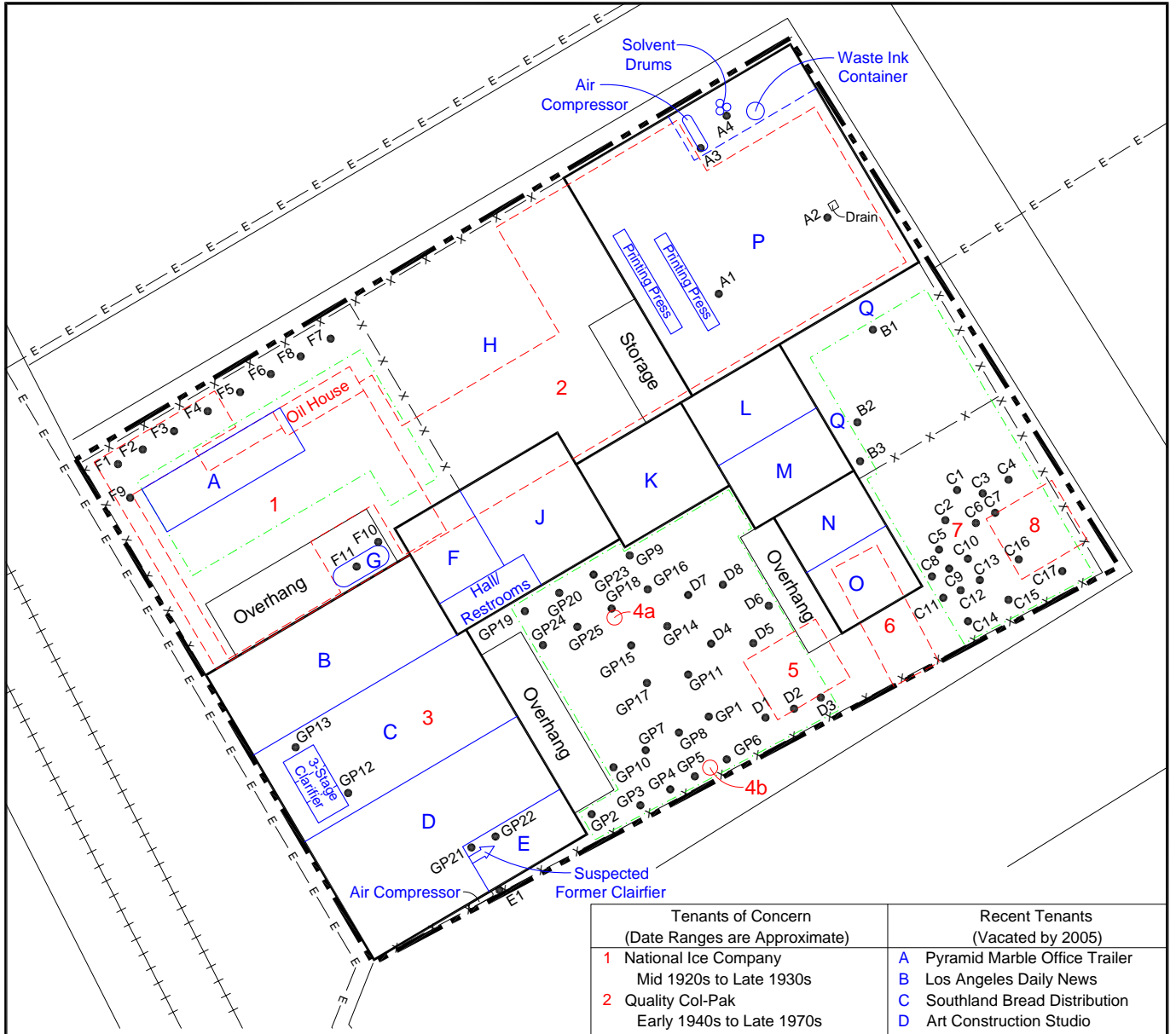
Source: Google Earth
Approximate Scale: 1" = 285'



2006 AERIAL PHOTOGRAPH

465 LOS FELIZ
465 LOS FELIZ ROAD & 434-450 FERNANDO COURT
GLENDALE, CALIFORNIA 91204

QORE Project 150-1421

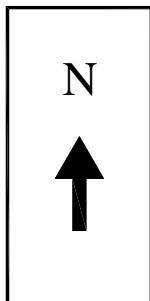


Legend:

- Soil Boring
- - - Geophysical Survey Areas
- Subject Property Boundary
- ⇒ Interpreted Groundwater Flow Direction

Not To Scale

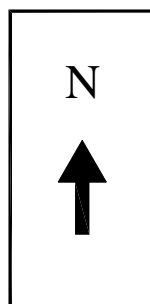
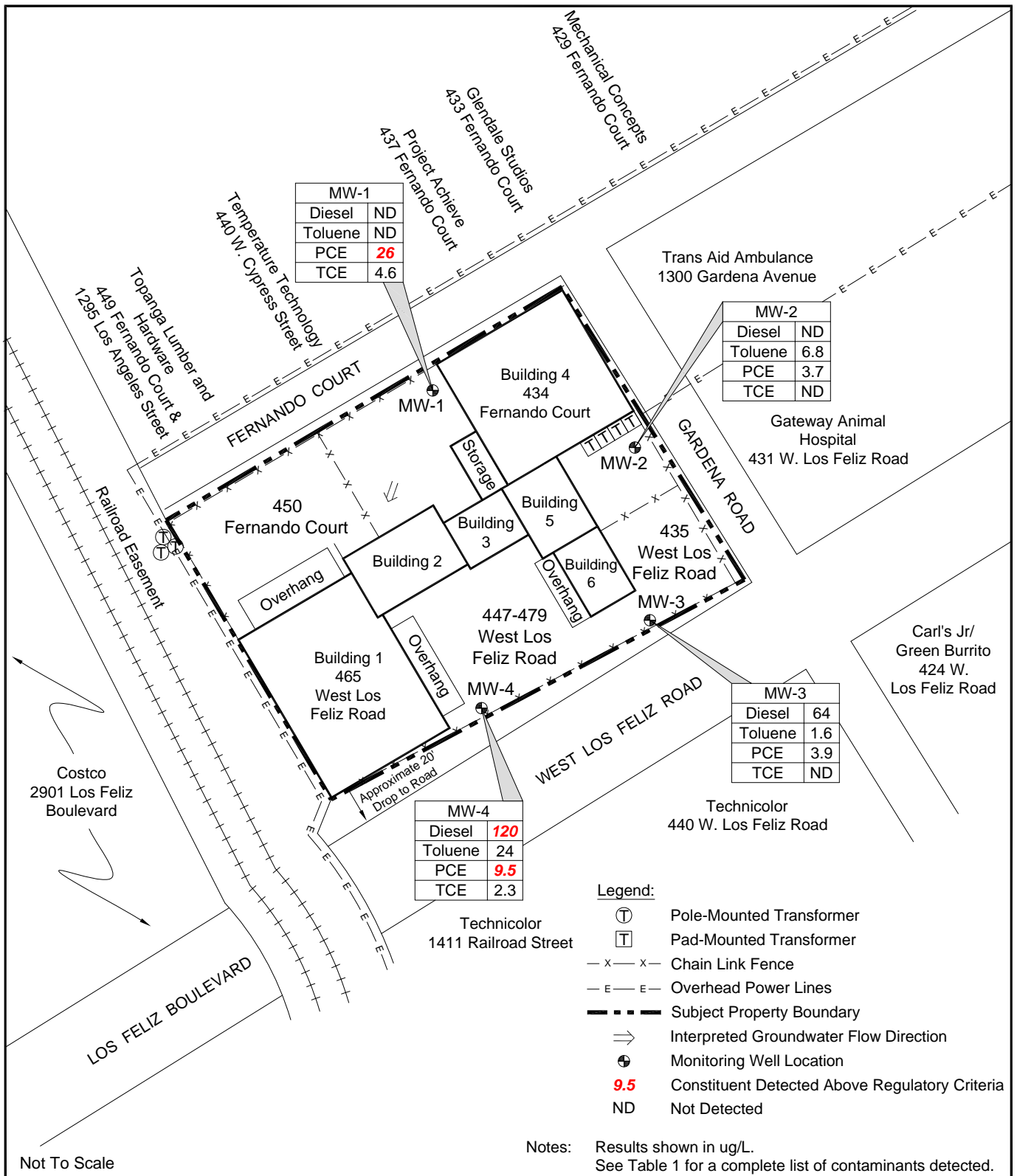
Tenants of Concern (Date Ranges are Approximate)	Recent Tenants (Vacated by 2005)
1 National Ice Company Mid 1920s to Late 1930s	A Pyramid Marble Office Trailer
2 Quality Col-Pak Early 1940s to Late 1970s	B Los Angeles Daily News
3 Glenn-Webb Company Early 1950s to Late 1970s	C Southland Bread Distribution
4a Tropico Lumber 100 Gal Oil UST ≈ 1908	D Art Construction Studio
4b Gasoline UST ≈ 1968-70	E Jamai Spicehouse
5 Richardson Oil Company Mid-1920s to Early 1930s	F Byrons Auto (Offices)
6 Turner-Yourec Press Late 1940s to Early 1950s	G Byron's Auto (Used Oil Drums, Compressor, Parts Washer)
7 Campbell-Land-Pearson Used Cars Late 1920s	H M & D Supply (Yard)
Pratty Rubbish Service Early to Mid-1950s	J M & D Supply (Offices)
8 EJ Bartlet Service Station Early 1930s to Mid-1950s	K M & D Supply (Warehouse)
	L Patrick Budowski (Storage)
	M Ray Pierce (Storage)
	N American Bakery Products
	O Art & Oils for Less
	P Glendale Rotary Offset Printing
	Q Glendale Rotary Offset Printing (Waste Storage Area)



HISTORICAL SITE PLAN

 465 LOS FELIZ
 435-465 WEST LOS FELIZ ROAD AND
 434-450 FERNANDO COURT
 GLENDALE, CALIFORNIA 91204

 QORE Project 150-1421



GROUNDWATER LABORATORY RESULTS

465 LOS FELIZ
435-465 WEST LOS FELIZ ROAD AND
434-450 FERNANDO COURT
GLENDALE, CALIFORNIA 91204

QORE Project 150-1421B

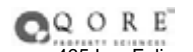
**Appendix B
Photographs**



1. View of typical ink staining on the floor of Building 4, the former Glendale Rotary Offset Printing.



2. View of materials stored in Building 4 by the property owner.



465 Los Feliz
Project 150-1421

Photograph Dates: Sep. 28 & Oct. 24-26, 2007



3. View of *de minimis* ink spill in Building 1.



4. View of the three-stage clarifier in Building 1.



5. View of *de minimis* oil staining under an abandoned lathe in Building 1.



6. View of *de minimis* oil staining under an air compressor located south of Building 1.



7. View of the installation of MW-3.



8. View of the installation of MW-1.

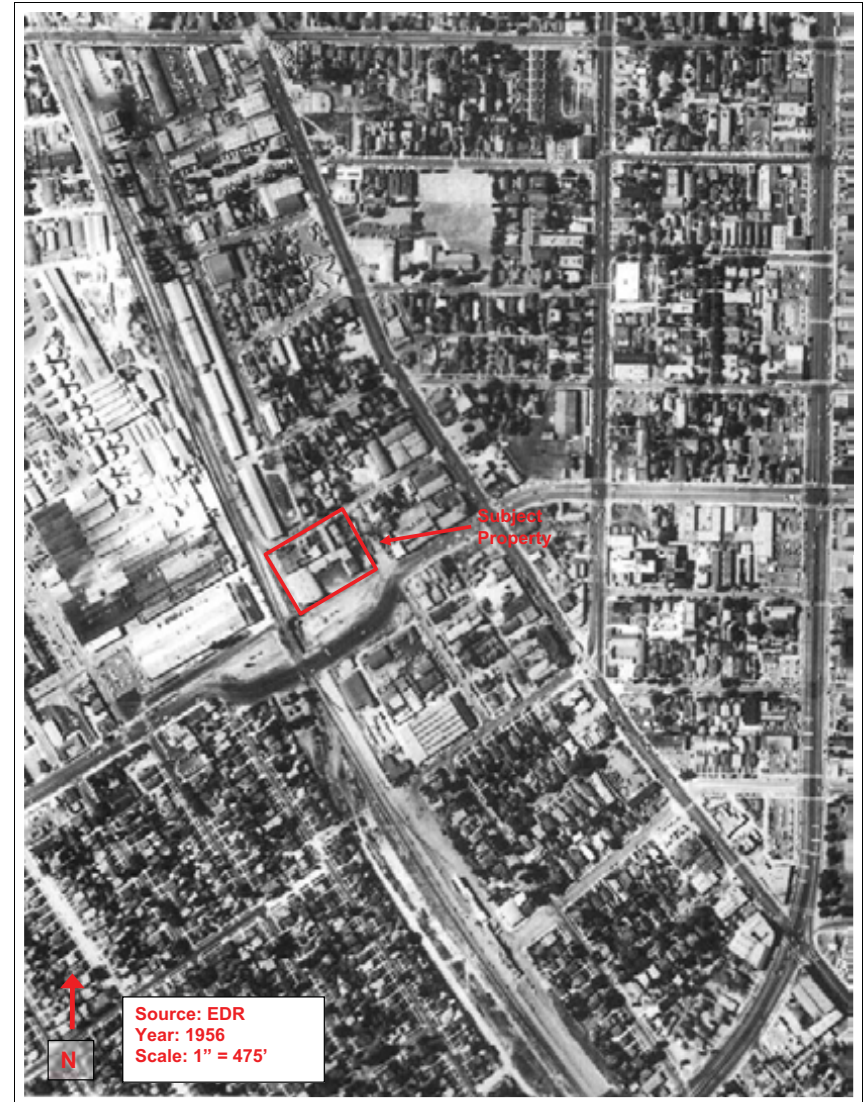
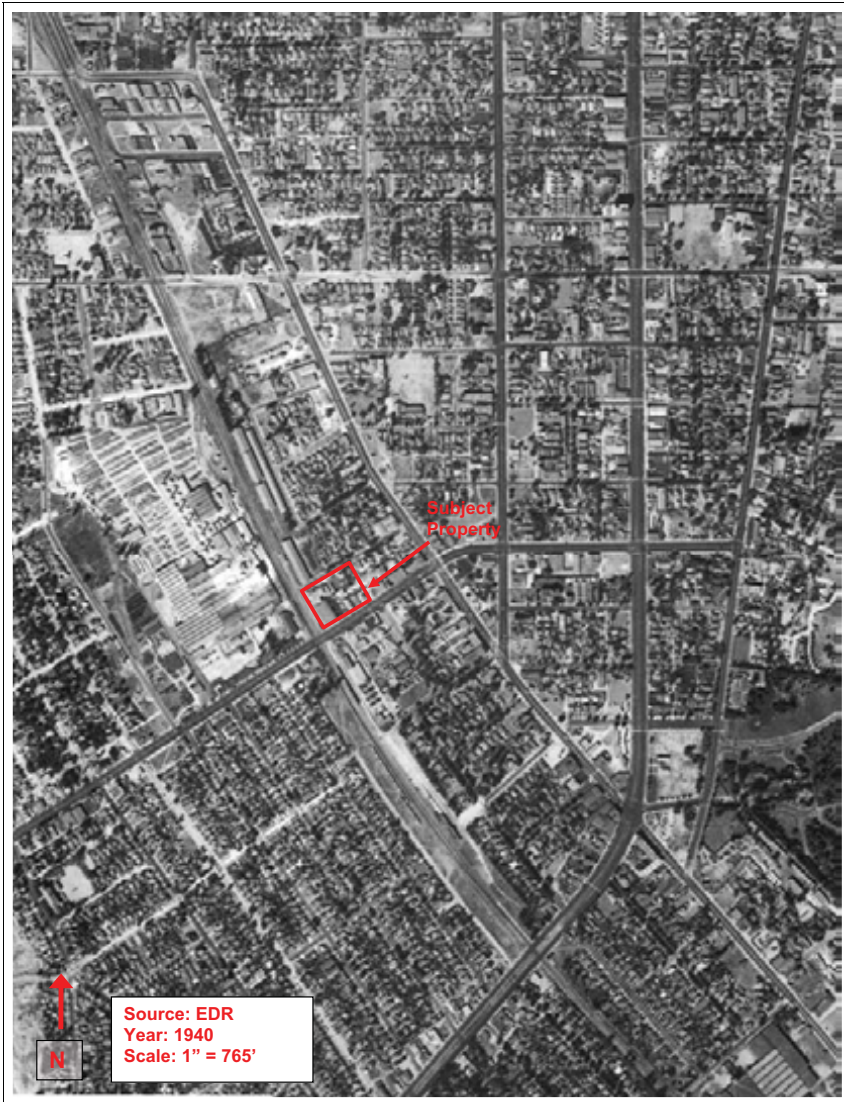
Appendix C Historical Research Documentation

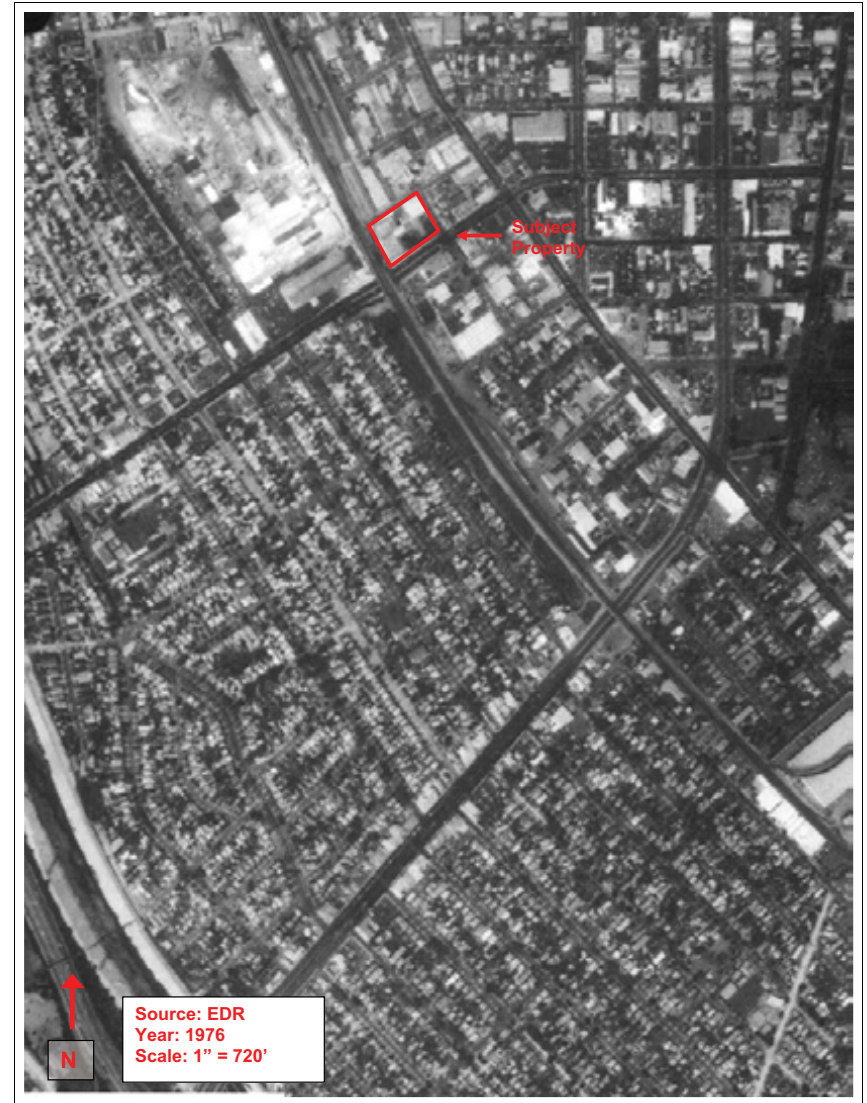


465 Los Feliz
Project 150-1421

Photograph Dates: Sep. 28 & Oct. 24-26, 2007











Source: EDR
Year: 2002
Scale: 1" = 750'

Certified Sanborn® Map Report



Sanborn® Library search results
Certification # 19E7-47BD-B033

465 Los Feliz
465 Los Feliz Road and 434-450 Fernando Court
Glendale, CA 91204

Inquiry Number 2037078.3s

September 26, 2007



The Standard in Environmental Risk Information

440 Wheelers Farms Rd
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

Certified Sanborn® Map Report

9/26/07

Site Name: 465 Los Feliz 465 Los Feliz Road and 434- Glendale, CA 91204 EDR Inquiry # 2037078.3s	Client Name: QORE Property Sciences 12801 N. Stemmons Freeway Dallas, TX 75234 Contact: Thomas Hale
---	--



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by QORE Property Sciences were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name:	465 Los Feliz
Address:	465 Los Feliz Road and 434-450 Fernando
City, State, Zip:	Glendale, CA 91204
Cross Street:	
P.O. #	NA
Project:	150-1421
Certification #	19E7-47BD-B033

Maps Identified - Number of maps indicated within "()"

1970 (1)
1950 (1)
1925 (1)
1919 (1)
1908 (1)

Total Maps: 5

Limited Permission To Make Copies

QORE Property Sciences (the client) is permitted to make up to THREE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy, a copy of which is available upon request.



Sanborn® Library search results
Certification # 19E7-47BD-B033

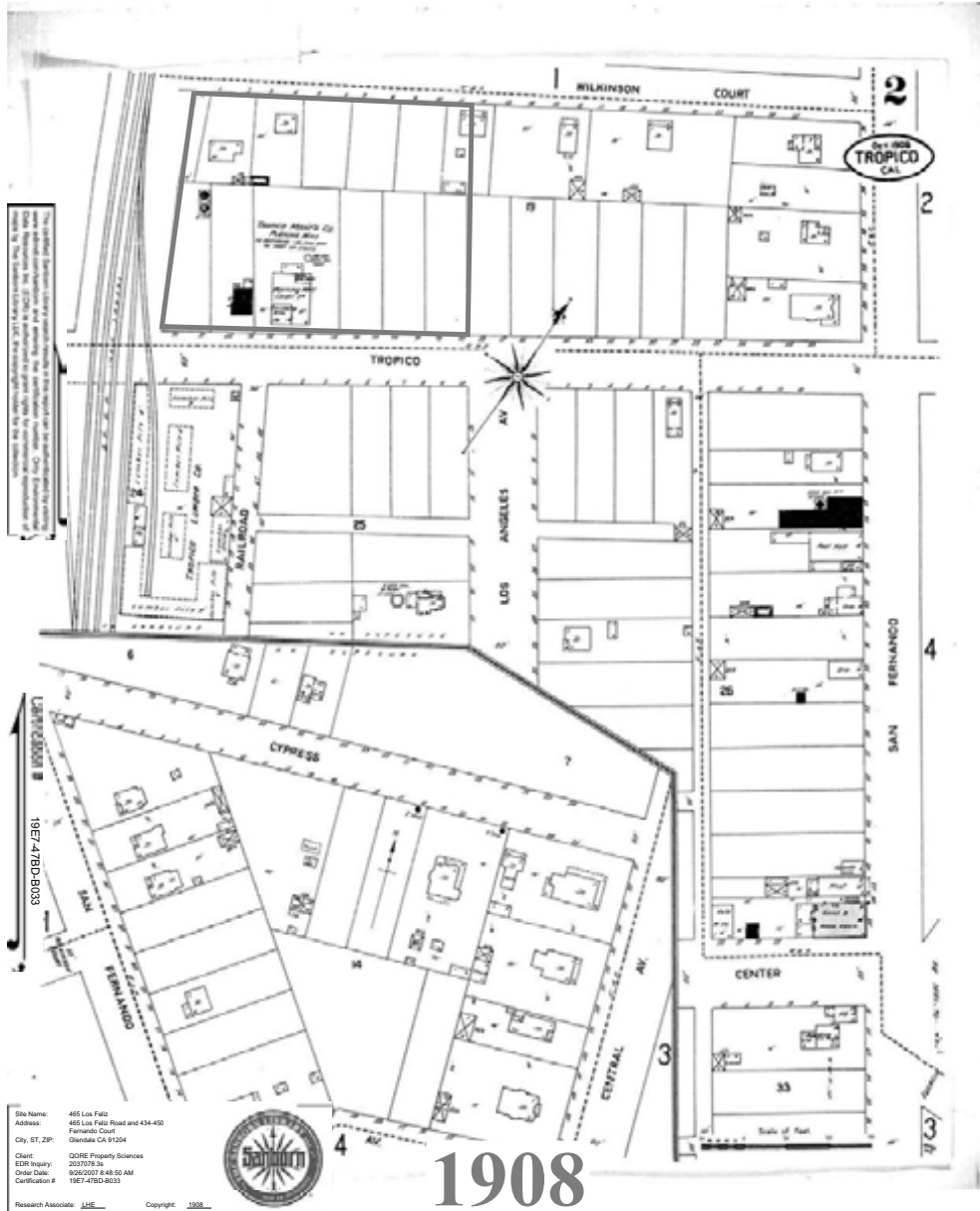
The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

Disclaimer - Copyright and Trademark notice

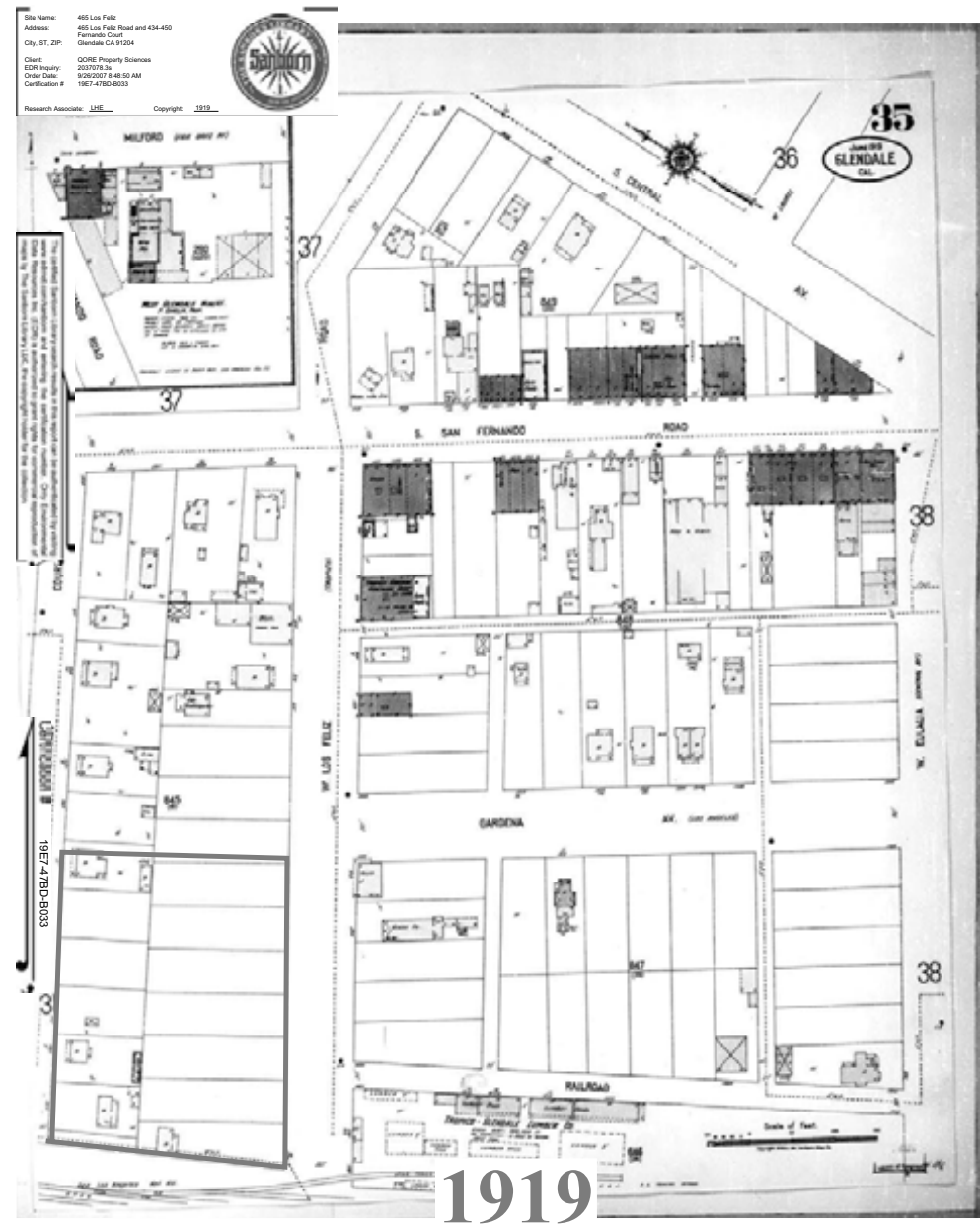
This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL CONSEQUENTIAL OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2007 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission. EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.



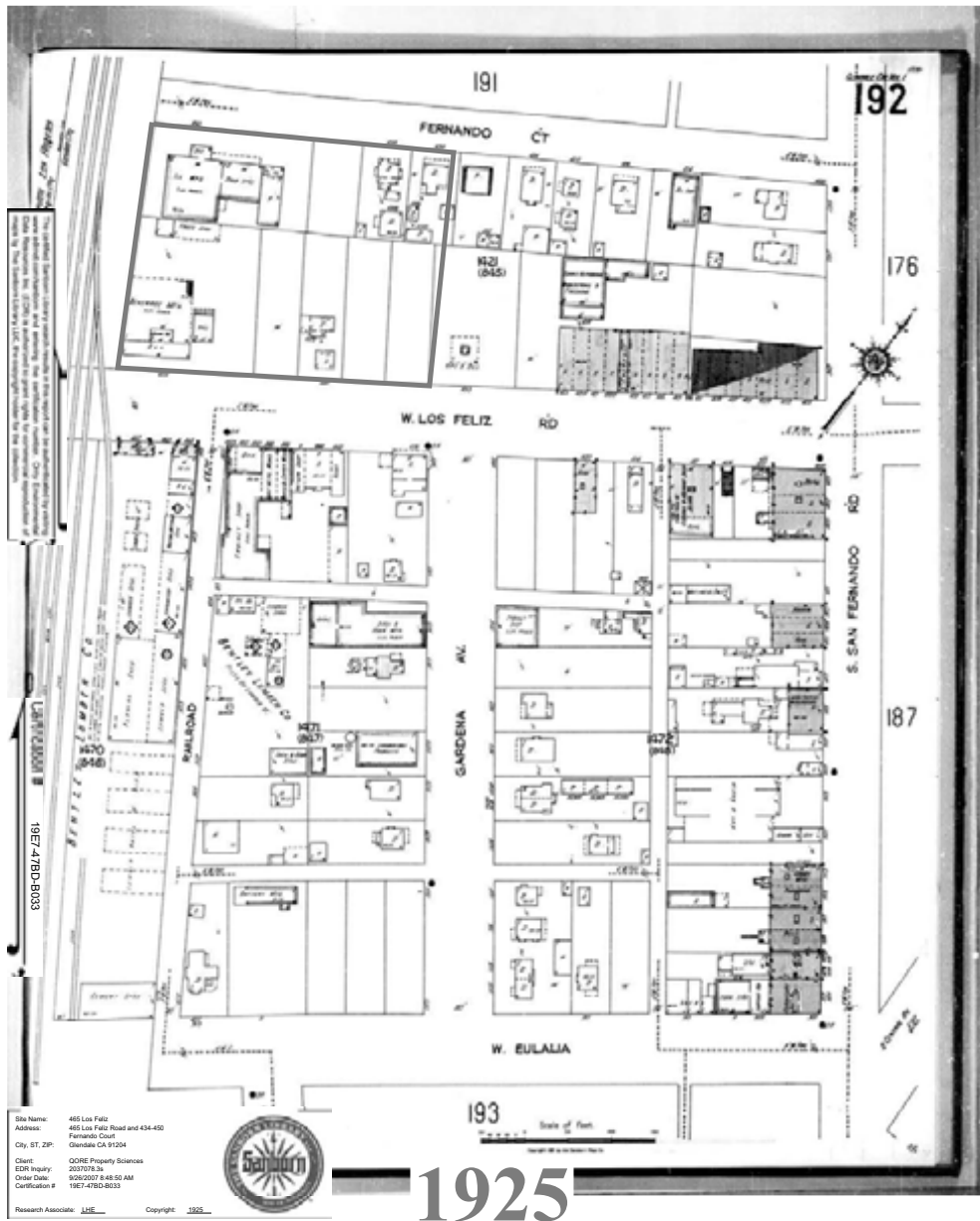
1908

Site Name: 465 Los Feltz
 Address: 465 Los Feltz Road and 434-450
 Fremont, Calif
 City, ST, ZIP: Fremont, CA 91204
 Client: CORE Property Sciences
 EDR Inquiry: 2037078.36
 Order Date: 9/26/2007 8:48:50 AM
 Certification #: 19E7-4780-8033
 Research Associate: JHE Copyright: 2008

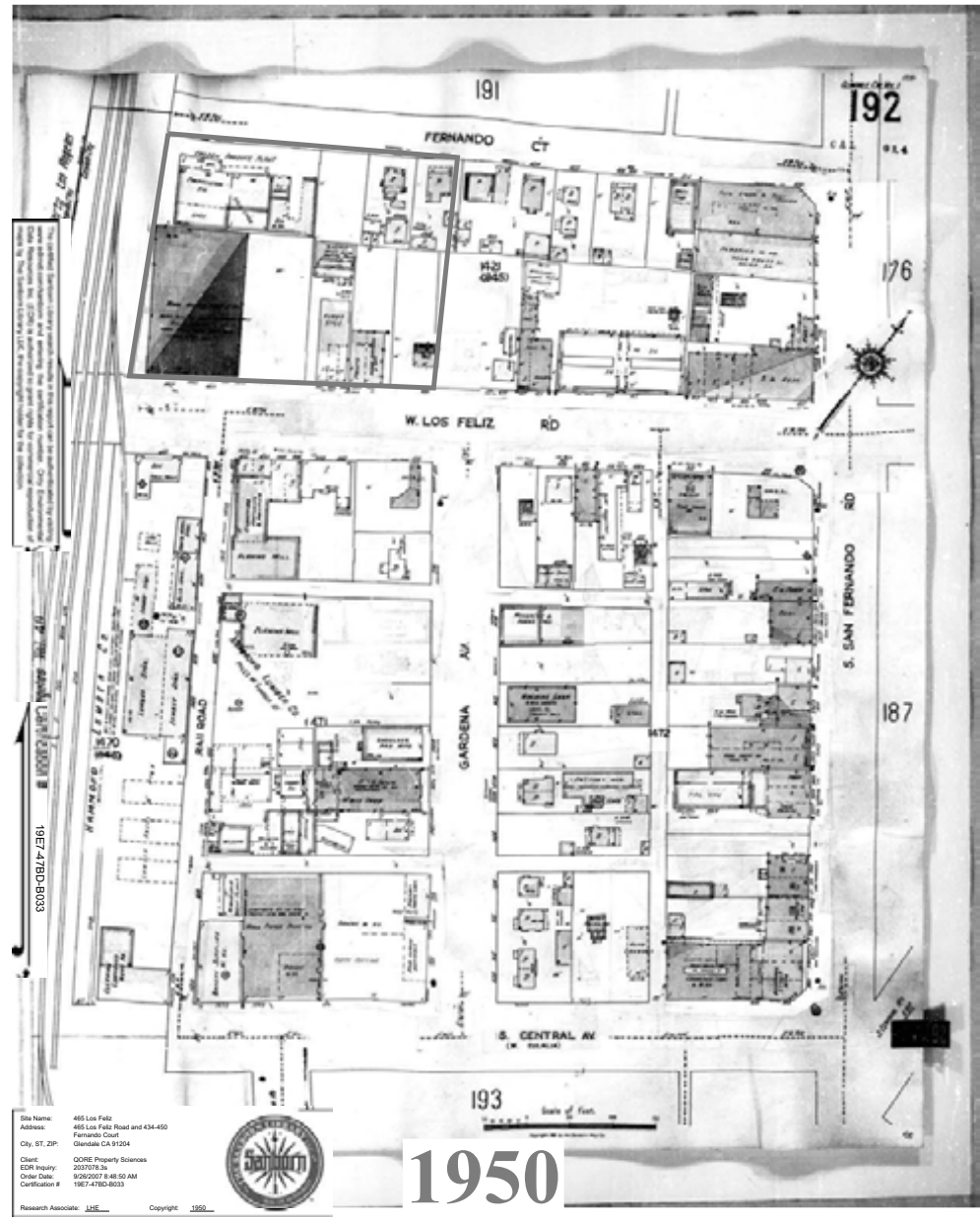


1919

Site Name: 465 Los Feltz
 Address: 465 Los Feltz Road and 434-450
 Fremont, Calif
 City, ST, ZIP: Fremont, CA 91204
 Client: CORE Property Sciences
 EDR Inquiry: 2037078.36
 Order Date: 9/26/2007 8:48:50 AM
 Certification #: 19E7-4780-8033
 Research Associate: JHE Copyright: 2008



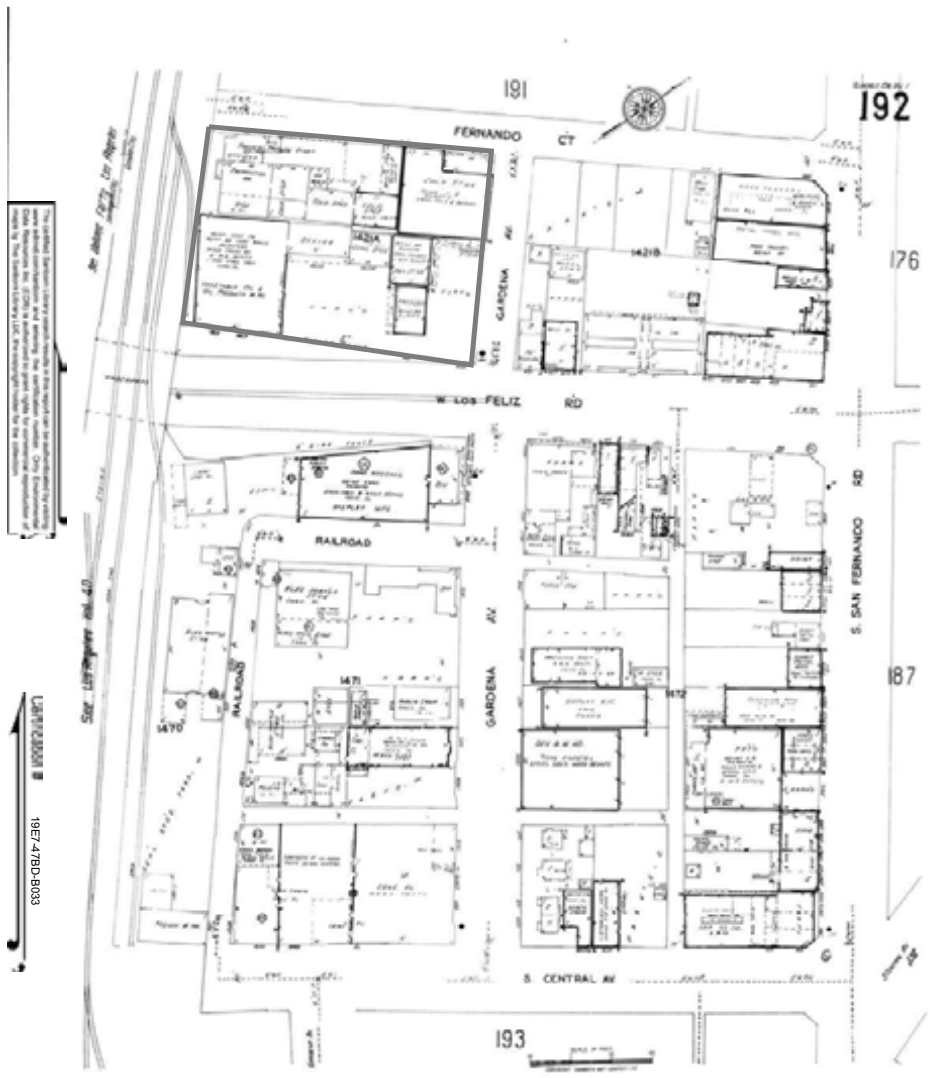
1925



1950



Environmental Lien Search
 October 3, 2007



This map was prepared by Banks Environmental Data, Inc. based on information provided by the City of Glendale, California. Banks Environmental Data, Inc. is not responsible for any errors or omissions on this map.

19E7-478D-8033

Site Name: 465 Los Feliz
 Address: 465 Los Feliz Road and 434-450
 City, ST, ZIP: Glendale CA 91204
 Client: QORE Property Sciences
 EDR Inquiry: 2/23/07 3a
 Order Date: 9/26/2007 8:48:50 AM
 Certification #: 19E7-478D-8033



1970

CLIENT

QORE PROPERTY SCIENCES, INC. - DALLAS
 Attn: Thomas Hale
 12801 N. Stemmons Freeway, #807
 Farmers Branch, TX 75234
 Phone: (972)247-7229
 Fax: 1-972-247-7810

SITE

465 Los Feliz
 465 Los Feliz Rd., 434 and 450 Fernando Court
 Glendale, California
 Los Angeles County

Client #: 150-1421
 Project #: ES24150

Banks Environmental Data, Inc.
 P.O. Box 12851, Capital Station/Austin, Texas 78711
 1601 Rio Grande, suite 500/Austin, TX 78703 512-478-0059 FAX 512-478-1433
E-Mail - CustomerService@banksinfo.com www.banksinfo.com



LIEN SEARCH REPORT

PROPERTY DESCRIPTION

LEGAL DESCRIPTION: See Attached
SUBJECT PARCEL NUMBER: 5640-020-020, 5640-020-021, 5640-020-024
CURRENT OWNER(S): Housing Alliance, LLC

Lien Search Result

No environmental liens found for subject property from 1985 to current. California appears not to be a Superlien State.



LIEN SEARCH REPORT

RESEARCH NOTES

Notes:

ASTM Notes: ASTM E 1527-05, on Historical Use Information requires a review of "Reasonably Ascertainable standard historical sources."

"Reasonably Ascertainable means information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable."

This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful.

Banks Environmental Data, Inc. has determined that the ASTM E 1527-05, requirements has been met for the subject property searched in this report. Land title records required to obtain additional information regarding the subject property were not "reasonably ascertainable" at the time of this report.

Environmental Liens: No environmental liens/activity use limitations (AUL's) identified.

RESOURCES & LIMITATIONS

Banks Environmental Data, Inc. (Banks) has completed your request for an Environmental Lien Search for the above site. The information in this report has been produced from a limited search of the public land records and/or real property records of the county back to at least the mid 1980's up through the indicated date as shown on this report. This limited search includes only environmental liens and restrictions. This report is being provided for use only as a limited part of an overall Phase I Environmental Site Assessment as performed by a qualified Environmental Engineer/Consultant as specified in the ASTM Standard E 1527-05 and as specified in the Comprehensive Environmental Response, Compensation and Liabilities Act of 1980, as amended, and may not be relied upon for any other purpose.

This report is not to be considered an Abstract, a Title Commitment, Title Opinion, Title Guaranty, or a representation of the legal status of the property. The information presented is simply a report of instruments filed of record pertaining to the above property and was obtained from the county public records. No guaranty as to the integrity or correctness of said records is implied.



LIEN SEARCH REPORT

GLOSSARY

There are certain terms used in Chain of Title searches, which may require clarification. This glossary is designed to provide definitions for some of the most common terms.

Table with 2 columns: Term and Definition. Rows include: 1. ENVIRONMENTAL LIEN, 2. BREAK IN CHAIN, 3. EASEMENT, 4. MULTIPLE OWNERS, 5. MULTIPLE PARCELS.

DISCLAIMER
The information contained in this report has been obtained from publicly available sources and other secondary sources of information produced by entities other than Banks Environmental Data, Inc (Banks).

RECORDING REQUESTED BY
CHICAGO TITLE COMPANY 08/02/05
AND WHEN RECORDED MAIL TO
Urban Housing Alliance LLC
2044 Overland Ave.
Los Angeles, CA 90025
ATTN: GUY DEVORRIS

05 1829097

ESCROW No. 41006031 - X14
Order No. 41006031 - X14

GRANT DEED

Assessor's Parcel No: 5640-20-20, 21 & 24

THE UNDERSIGNED GRANTOR(S) DECLARE(S)
DOCUMENTARY TRANSFER TAX IS SEE ATTACHED
[] unincorporated area [X] City of GLENDALE
[X] computed on the full value of the interest or property conveyed, or is
[] computed on the full value less the value of liens or encumbrances remaining at time of sale, and
FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,
GLENDALE ROTARY OFFSET PRINTING CO, INC., A CALIFORNIA CORPORATION

hereby GRANT(S) to
URBAN HOUSING ALLIANCE, LLC, a California Limited Liability Company
URBAN

the following described real property in the City of GLENDALE
County of LOS ANGELES, State of California:

LEGAL DESCRIPTION ATTACHED HERETO AND MADE A PART HEREOF BY REFERENCE

Dated April 20, 2004

GLENDALE ROTARY OFFSET PRINTING CO.,
INC.
A CALIFORNIA CORPORATION

STATE OF CALIFORNIA
COUNTY OF LOS ANGELES) SS
On April 20, 2004 before me,
Jeannie A. Oliver
Gerald R. Deal and
Gerald L. Bir

By [Signature]
GERALD R. DEAL,

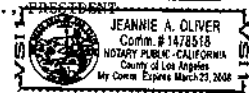
personally known to me for proved to me on the basis of satisfactory
evidence) to be the person(s) whose name(s) is/are subscribed to the
within instrument and acknowledged to me that he/she/they executed the
same as he/hy/their authorized capacity(ies), and that by he/hy/their
signature(s) on the instrument the person(s), or the entity upon behalf of
which the person(s) acted, executed this instrument.

By [Signature]
GERALD L. BIR,

WITNESS my hand and official seal

[Signature]

March 23, 2008
Date My Commission Expires



MAIL TAX STATEMENTS TO PARTY SHOWN ON FOLLOWING LINE IF NO PARTY SO SHOWN, MAIL AS DIRECTED ABOVE

Name Street Address City, State & Zip

08/02/05

Page 1

Escrow No. 41006031 -X34

LEGAL DESCRIPTION EXHIBIT

PARCEL 1:

LOTS 13, 14, 15 AND 16 IN BLOCK OF W.C.B. RICHARDSON'S SUBDIVISION, IN THE CITY OF GLENDALE, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 18, PAGE 34 OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

EXCEPTING THEREFROM THOSE PORTIONS OF SAID LOTS DESCRIBED AS FOLLOWS:

BEGINNING AT THE MOST SOUTHERLY CORNER OF SAID LOT 16; THENCE NORTHWESTERLY ALONG THE SOUTHWESTERLY LINE OF SAID LOT 16, A DISTANCE OF 39.68 FEET; THENCE NORTHEASTERLY IN A DIRECT LINE TO A POINT IN THE NORTHEASTERLY LINE OF SAID LOT 13, DISTANT THEREON 20.44 FEET NORTHWESTERLY FROM THE MOST EASTERLY CORNER OF SAID LOT 13; THENCE SOUTHEASTERLY TO SAID MOST EASTERLY CORNER; THENCE SOUTHWESTERLY ALONG THE SOUTHEASTERLY LINE OF SAID LOTS 13, 14, 15 AND 16 TO THE POINT OF BEGINNING.

PARCEL 2:

ALL THOSE PORTIONS OF LOTS 9 TO 12 INCLUSIVE IN BLOCK 1, W.C.B. RICHARDSON'S SUBDIVISION, IN THE CITY OF GLENDALE, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 18 PAGE 34 OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:

COMMENCING AT THE INTERSECTION OF THE NORTHWESTERLY PROLONGATION OF THE CENTER LINE OF THAT PORTION OF GARDENA AVENUE, 80 FEET WIDE, EXTENDING SOUTHEASTERLY FROM LOS FELIZ BOULEVARD, 90 FEET WIDE, WITH A LINE PARALLEL WITH AND DISTANT 40 FEET SOUTHEASTERLY MEASURED AT RIGHT ANGLES FROM THE SOUTHEASTERLY LINE OF SAID BLOCK 1 (SAID GARDENA AVENUE BEING SHOWN AS LOS ANGELES AVENUE, AND SAID LOS FELIZ BOULEVARD BEING SHOWN AS TROPICO AVENUE ON MAP OF SAID W.C.B. RICHARDSON'S SUBDIVISION); THENCE NORTH 57°16;53" EAST ALONG SAID PARALLEL LINE, 4 FEET; THENCE NORTH 32°43'07" WEST 40 FEET TO SAID SOUTHEASTERLY LINE OF BLOCK 1; THENCE SOUTH 57°16'23" WEST ALONG SAID SOUTHEASTERLY LINE 36 FEET; THENCE NORTH 12°17' EAST 6.47 FEET TO THE TRUE POINT OF BEGINNING FOR THIS DESCRIPTION; THENCE NORTH 12°17' EAST 4.84 FEET; THENCE NORTH 32°43'07" WEST 51.59 FEET; THENCE NORTHWESTERLY ALONG A TANGENT CURVE CONCAVE TO THE NORTHEAST AND HAVING A RADIUS OF 1998 FEET AN ARC DISTANCE OF 97.98 FEET TO A POINT OF TANGENCY IN A LINE BEARING NORTH 29°54'32" WEST; THENCE NORTH 29°54'32" WEST TO THE NORTHWESTERLY LINE OF SAID LOT 9; THENCE SOUTHWESTERLY ALONG SAID NORTHWESTERLY LINE AND CONTINUING SOUTHWESTERLY ALONG THE NORTHWESTERLY LINES OF SAID LOTS 10, 11 AND 12 TO THE SOUTHWESTERLY LINE OF SAID LOT 12; THENCE SOUTHEASTERLY ALONG SAID SOUTHWESTERLY LINE TO A POINT DISTANT NORTHWESTERLY THEREON 20.44 FEET FROM SAID SOUTHEASTERLY LINE OF BLOCK 1; THENCE NORTH 62°47'43" EAST 165.04 FEET TO THE TRUE POINT OF BEGINNING.

PARCEL 3:

LOTS 10, 11, 12 AND 13 IN BLOCK 1 OF WILKINSON'S SUBDIVISION, IN THE CITY OF GLENDALE, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 10 PAGE 38 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

TOGETHER WITH THAT PORTION OF THE ALLEY SHOWN ON MAP OF WILKINSON'S SUBDIVISION AS

DEEDLEG-08/09/94b

05 1829097

08/02/05

Page 2

Escrow No. 41006031 -X34

LEGAL DESCRIPTION EXHIBIT

RECORDED IN BOOK 10 PAGE 38 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF LOS ANGELES COUNTY, CALIFORNIA, LYING SOUTHEASTERLY OF A LINE DRAWN PARALLEL WITH AND 12.00 FEET SOUTHEASTERLY OF THE SOUTHWESTERLY PROLONGATION OF THE NORTHWESTERLY LINE OF LOT 13 IN BLOCK 1 OF SAID SUBDIVISION.

PARCEL 4:

LOTS 8 AND 9 IN BLOCK 1 OF WILKINSON'S SUBDIVISION IN THE CITY OF GLENDALE, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 10 PAGE 38 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

DEEDLEG-08/09/94b

05 1829097

**PHASE I
ENVIRONMENTAL SITE ASSESSMENT**

465 West Los Feliz Road and
434-450 Fernando Court
Glendale, California

Prepared for:

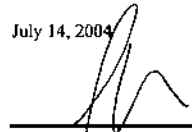
Khan Consulting, Inc.
1111 North Brand Boulevard, Suite 403
Glendale, California 91202

Prepared by:

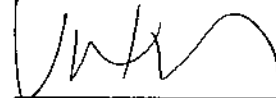
EP Associates
1111 North Brand Boulevard, Suite 405
Glendale, California 91202-3023

Project Number 13350201

July 14, 2004



Steven J. Fellingner
Environmental Specialist



Vahan Hovnanian, Principal
Registered Environmental Assessor #2544

Phase I Environmental Site Assessment
465 West Los Feliz Road and
434-450 Fernando Court

Thao Consulting, Inc.
13350201
July 14, 2004

CONTENTS

EXECUTIVE SUMMARY	i
1.0 INTRODUCTION	1
2.0 SITE AND VICINITY DESCRIPTION	1
2.1 Site Description	1
2.2 Vicinity Description	3
3.0 LEGAL DESCRIPTION, OWNERSHIP, AND ZONING	3
4.0 PRESENT AND PAST USAGE OF THE SUBJECT PROPERTY	4
5.0 PRESENT AND PAST USAGE OF ADJOINING PROPERTIES	5
6.0 PHYSICAL SETTING	6
6.1 Site Drainage	6
6.2 Regional and Local Hydrogeology	6
6.3 Surface Water Resources	8
6.4 Sensitive Environmental Receptors	8
6.5 Flood Hazard	8
7.0 RECORDS REVIEW	8
7.1 Sanborn Fire Insurance Maps	8
7.2 Historical Aerial Photographs	9
7.3 Permits	10
7.4 Oil and Gas Maps	12
7.5 City Directory Research	12
7.6 Environmental Database	16
8.0 SITE AND ADJOINING PROPERTY RECONNAISSANCE	21
8.1 Site Reconnaissance	21
8.1.1 Hazardous Substances and Petroleum Products	21
8.1.2 Underground and Aboveground Storage Tanks	23
8.1.3 Transformers and Fluorescent Light Ballasts	24
8.1.4 Asbestos	24
8.1.5 Radon	24
8.1.6 Solid Waste Management and Landfills	25
8.1.7 Sumps and Clarifiers	25
8.1.8 Personal Interviews	25

CONTENTS (continued)

8.2	Adjoining Properties Reconnaissance	26
9.0	FINDINGS AND CONCLUSIONS	26
10.0	RECOMMENDATIONS	29
11.0	LIMITATIONS	29

REFERENCES

FIGURES

- 1 Vicinity Map
- 2 Site Plan
- 3 Neighboring Properties

APPENDICES

- A Site Photographs
- B Sanborn Fire Insurance Maps
- C Building Permits
- D EDR Environmental Record Search

EXECUTIVE SUMMARY

EP Associates conducted a Phase I Environmental Site Assessment of a commercial property located at 465 West Los Feliz Road and 434-450 Fernando Court, Glendale, California (subject property) (Figure 1, Vicinity Map). The purpose of EP Associates' investigation was to identify recognized environmental conditions at the subject property. Recognized environmental conditions are defined under ASTM Standard E 1527-00 as the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property.

Based on a review of regulatory agency records; interviews with regulatory agency representatives, property owners, owner representative, or operators; an evaluation of Sanborn fire insurance maps, historical aerial photographs, and historical city directories; consideration of the present and historical usage of the subject property; and reconnaissance of the subject property and adjoining properties, EP Associates has identified no recognized environmental conditions at the subject property and reports the following findings and conclusions:

- The subject property is approximately 86,000 square feet of land that is improved with 6 commercial buildings (Figure 2, Site Plan and Appendix A, Site Photographs). The subject property is bounded on the north by Fernando Court, on the east by Gardena Avenue, on the south by West Los Feliz Road, and on the west by the Southern Pacific railroad tracks (Figure 3, Neighboring Properties).
- One of the tenants, *Glendale Rotary Offset Printing Company*, is listed in the HAZNET database. The HAZNET database is comprised of hazardous waste manifests supplied by the Department of Toxic Substances Control. *Glendale Rotary Offset Printing Company* is listed for having generated and disposed of photochemical and photo processing waste. No violations were found in conjunction with its disposal of these hazardous wastes.
- Chemical substances such as petroleum hydrocarbons, solvents, waste oil, and other typical building maintenance compounds were stored in various size containers throughout the subject property. In general, there was no visual evidence of significant chemical release at the subject property, with the exception of two locations, including *Byron's Auto* and an area of a decommissioned air compressor located south of Building 1.

- Where accessible, EP Associates identified no sumps or clarifiers at the subject property. However, there is an indirect waste receptor drain/container located on the floor inside the film development area of the *Glendale Rotary Offset Printing Company* building. Silver-containing waste from photochemical processing is temporarily stored in the indirect waste receptor, which serves as a small sump.
- Two gasoline service stations were present on the subject property in the past. One service station, which operated from approximately 1930 until 1950, was located on the southeast portion of Parcel 2. Another service station operated from approximately 1930 until 1933, and was located on the southwest portion of Parcel 2.
- Records indicate that at least two underground storage tanks (USTs) were installed at the northwest portion of Parcel 3 (450 Fernando Court). Records also indicate that at least one UST was removed.
- Records reveal that in the early 1950s, a garbage collection and rubbish disposal company operated at 435 West Los Feliz Road, on the eastern portion of Parcel 2. This information was corroborated by a permit record indicating that Prarty Company, a "Rubbish Pick Up Service", installed a 10,000-gallon UST at this location.
- Based on this investigation, there is a potential for USTs to exist at three locations on the subject property; the southeast corner of Parcel 2 (435 West Los Feliz Road), the southwest corner of Parcel 2 (447-449 West Los Feliz Road), and the northwest corner of Parcel 3 (450 Fernando Court).
- In 1925, a service station was present at the location of existing Gardena Avenue, immediately east of Parcel 2 (433 West Los Feliz Road).
- Suspect asbestos-containing materials (ACM) are present in the subject property buildings. EP Associates did not conduct an asbestos survey to identify ACM as part of this investigation.
- Four pad-mounted and three pole-mounted electrical transformers are located within the subject property boundaries. All transformers are posted with a "NON PCB" identification label, indicating that the dielectric fluid used in the transformers does not contain polychlorinated biphenyls (PCBs). Additionally, the transformers appeared physically intact with no signs of fluid leakage.

- Groundwater in the subject property area is expected to be at a depth of approximately 40 feet below ground surface. General groundwater flow direction for the shallow aquifer in this area is generally to the south.
- There are additional known leaking underground storage tank (LUST) and hazardous waste sites in the vicinity of the subject property. The sites are not expected to adversely impact the subject property.
- Solid waste generated at the subject property consists of typical office refuse and inert waste. The waste generated at the subject property is stored in waste containers positioned throughout various parcels. The waste containers are removed by various independent waste management companies for recycling and offsite disposal.

§

Based on the findings and conclusions presented in this report, EP Associates has identified the following recognized environmental conditions and historical recognized environmental conditions at the subject property.

- UST(s) associated with the former service station and the rubbish collection company located at 435 West Los Feliz Road (southeast portion of Parcel 2).
- UST(s) associated with the former service station located at 447-449 West Los Feliz Road (southwest portion of Parcel 2).
- A UST potentially located at 450 Fernando Court (northwest portion of Parcel 3).
- Oil stained areas at *Byron's Auto* and at a location of a compressor located south of Building 1.
- Westward migration of possible subsurface petroleum hydrocarbon contamination from the former service station located at 433 West Los Feliz Road (currently improved with Gardena Avenue).

§

EP Associates recommends that subsurface soil sampling be conducted to assess the possible presence of petroleum hydrocarbons and other contaminants that might have been released during historical activities at the subject property and the former property located at 433 West

Los Feliz Road. This primarily includes any release from the former USTs.

EP Associates additionally recommends the following:

- Search to locate any possible USTs that may still be present at the southeast and southwest portions of Parcel 2, and at the northwest portion of Parcel 3.
- Develop a contingency plan to manage USTs in the event they are encountered during any future construction activities.
- Properly remove and dispose of the chemical substances and hazardous wastes present at the subject property prior to any activity that would potentially cause their release.
- Conduct an asbestos survey to identify ACM in the buildings for removal prior to any renovation or demolition activities.
- Identify and properly handle and dispose of possible PCB-containing fluorescent light ballasts, when necessary.
- Properly dispose of fluorescent light tubes, when necessary.

1.0 INTRODUCTION

EP Associates conducted a Phase I Environmental Site Assessment of a commercial property located at 465 West Los Feliz Road and 434-450 Fernando Court, Glendale, California (subject property) (Figure 1, Vicinity Map). The purpose of EP Associates' investigation was to identify recognized environmental conditions at the subject property. Recognized environmental conditions are defined under ASTM Standard E 1527-00 as the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property.

The findings of this investigation were based on the readily available and reasonably ascertainable information from regulatory agencies, the property owner's representative, neighboring business owners and/or operators, and current site conditions.

2.0 SITE AND VICINITY DESCRIPTION

2.1 Site Description

The subject property is approximately 86,000 square feet of land that is improved with 6 commercial buildings. The subject property is bounded on the north by Fernando Court, on the east by Gardena Avenue, on the south by West Los Feliz Road, and on the west by the Southern Pacific railroad tracks. The subject property consists of four parcels, Parcels 1 through 4 (Figure 2, Site Plan).

Parcel 1

Parcel 1 is located on the southwest portion of the subject property and is improved with one two-story brick building (Building 1) and one single-story concrete, plaster, and stucco building (Building 2). The two-story building is divided into four units, which are occupied by: *Jamai Spicehouse, Inc.*, a spice distribution warehouse; *Art Construction Studio*, a construction and design studio; *Southland Bread Distribution*, a bread distribution warehouse; and the *Los Angeles Daily News*, a packaging and distribution facility for a newspaper publishing company. The single-story building is used as offices for *Byron's Auto*, an automobile repair shop, and as offices for *M & D Supply*, a plumbing company.

Parcel 2

Parcel 2 is located on the southeast portion of the subject property and is improved with three single-story buildings. One building (Building 3), constructed of concrete and plaster, is used as a parts warehouse for *M & D Supply*. A second building (Building 5), constructed of brick, is divided into two units which are used as storage warehouses and occupied by: Patrick Budkowski, an entrepreneur; and Ray Pierce, a magician. The third building on the parcel (Building 6), also constructed of brick, is occupied by *American Bakery Products*, a bread distribution warehouse, and *Art and Oils for Less*, a retail oil painting shop.

Parcel 3

Parcel 3 is located on the northwest portion of the subject property and is improved with a storage room associated with *M & D Supply*, and a workshop overhang used as work space for *Byron's Auto* and *Pyramid Marble*, a marble and granite fabrication shop.

Parcel 4

Parcel 4 is located on the northeast corner of the subject property and is improved with a two-story, concrete tilt-up building (Building 4) occupied by the *Glendale Rotary Offset Printing Company*, a printing services company.

Three freight containers used as additional storage for *M & D Supply* and a mobile office used by *Pyramid Marble* are located on Parcel 3. An elevated loading dock, which is attached to five of the six buildings on the subject property, is located on Parcels 1 and 2. A dirt planter is located in Parcel 3 along Fernando Court. The remaining portions of the subject property are paved with either asphalt or concrete.

Vehicular and access to the subject property is from along Gardena Avenue and Fernando Court. All of the tenants at the subject property have unit numbers assigned for their mailing address which is 465 West Los Feliz Road, with the exception of the *Glendale Rotary Offset Printing Company*, which uses 434 Fernando Court, and *Byron's Auto* and *Pyramid Marble*, which use 450 Fernando Court.

Utility providers for the subject property include Glendale Water and Power (electricity and potable water), Southern California Gas Company (natural gas), and SBC Communications (telephone). Municipal sewage at the subject property is transferred to the Los Angeles/Glendale joint wastewater treatment plant located near San Fernando Road and the Golden State Freeway, approximately 1 1/4 miles northwest of the subject property. A major portion of the wastewater

is treated at the facility and discharged into the Los Angeles River. Some of the treated wastewater is chlorinated and reclaimed for irrigation and street use. The remaining wastewater, which consists primarily of solids, is transferred through the Los Angeles County Sanitation District system to the Los Angeles Hyperion treatment facility at Hyperion Island, located approximately 16 miles southwest of the subject property. The sewage system for the subject property was installed approximately 60 years ago.

2.2 Vicinity Description

The subject property is located in a commercial and industrial neighborhood of south Glendale (see Figure 3, Neighboring Properties). The commercial and industrial properties within a one block area of the subject property consist of various facilities including: machine parts manufacturing, automobile parts warehousing, picture frame manufacturing and sales, furniture design and construction, beauty supply product manufacturing and warehousing, computer networking, diecasting, textile screening and printing, motion picture film manufacturing and distribution, and lumber warehousing. Additionally, several retail and office buildings are located in the subject property vicinity including an animal hospital, a homeless shelter and rehabilitation center, and a large shopping center (former Franciscan Ceramics facility, a site with documented subsurface contamination).

The residential properties in the vicinity of the subject property consist of single-family and multifamily units and are located south of the subject property across the Los Feliz Road and Southern Pacific railroad track intersection. The nearest residential units are located approximately 425 feet north of the subject property, on the southwest corner of San Fernando Road and Cypress Street (Figure 3, Neighboring Properties).

The nearest active service stations are a Chevron service station located at 3050 Los Feliz Road and a UNOCAL 76 Service Station located at 3053 Los Feliz Road, on the southeast and southwest corners of the Brunswick Avenue/Los Feliz Road intersection, respectively. The service stations are located approximately 1,300 feet southwest of the subject property.

3.0 LEGAL DESCRIPTION, OWNERSHIP, AND ZONING

A preliminary title report for the subject property shows that it consists of four parcels of land (Parcels 1 through 4). Parcel 1 encompasses portions of Lots 13, 14, 15, and 16 in Block 1 of the W.C.B. Richardson's Subdivision, in the City of Glendale, County of Los Angeles, State of California, as per map recorded in Book 18, Page 34 of the Miscellaneous Records in the County Recorder's office. Parcel 2 encompasses Lots 9, 10, 11, and 12 inclusive to Block 1 of the W.C.B. Richardson's Subdivision, in the City of Glendale, County of Los Angeles, State of

California, as per a map recorded in Book 18, Page 34 of Miscellaneous Records in the County Recorder's office. Parcel 3 encompasses Lots 10, 11, 12, and 13 in Block 1 of the Wilkinson's Subdivision, in the City of Glendale, County of Los Angeles, State of California, as recorded in Book 10, Page 38 of Maps in the County Recorder's office. Parcel 3 additionally includes a portion of an alley located along the southwesterly border of said Lot 10. Parcel 4 encompasses Lots 8 and 9 in Block 1 of the Wilkinson's Subdivision, in the City of Glendale, County of Los Angeles, State of California, as recorded in Book 10, Page 38 of Maps in the County Recorder's office.

Available records indicate that the title of the subject property is vested in Glendale Rotary Offset Printing Company, Inc.

According to the City of Glendale Planning Division, the subject property is zoned M2 for light industrial usage.

4.0 PRESENT AND PAST USAGE OF THE SUBJECT PROPERTY

Parcel 1

Building 1 is currently occupied by: *Jamai Spicehouse, Inc.*, a spice distribution warehouse; *Art Construction Studio*, a construction and design studio; *Southland Bread Distribution*, a bread distribution warehouse; and the *Los Angeles Daily News*, a packaging and distribution facility for a newspaper publishing company. No printing work is performed at the *Los Angeles Daily News* facility.

Building 2 is currently used as offices for *Byron's Auto*, an automobile repair shop, and as offices for *M & D Supply*, a plumbing company.

Parcel 2

Building 3 is currently used as a parts warehouse for *M & D Supply*. Building 5 is currently occupied by Patrick Budkowski, an entrepreneur, and Ray Pierce, a magician, who use the building for storage purposes. Building 6 is currently occupied by *American Bakery Products*, a bread distribution warehouse, and *Art and Oils for Less*, a retail oil painting shop.

Parcel 3

Parcel 3 is currently used by *Pyramid Marble*, which fabricates marble and granite products, by *Byron's Auto*, as a storage and a full-service automobile service garage, and by *M & D Supply*,

as a truck parking area and storage yard.

Parcel 4

Parcel 4 is currently occupied by the *Glendale Rotary Offset Printing Company*, which is primarily engaged in printing local newspapers and other printing products.

EP Associates identifies past usage of a property from a number of sources including building permits and plans; interviews with the owner, operator, or the neighbors; property ownership records; historical aerial photographs and city directories; and Sanborn fire insurance maps.

Historically, the majority of the parcels were used for food distribution and cold storage purposes. However, other uses included a florist, cafe, cabinet manufacturing, piano supplies shop, heating and air conditioning company, toy manufacturing, gasoline service station (located at the southeast corner of the subject property and utilized underground fuel storage tanks), and garbage collection/disposal company yard (also located southeast corner of the subject property and utilized an underground fuel storage tank). A summary of the historical tenants is provided in Section 7.5, City Directory Research, of this report.

5.0 PRESENT AND PAST USAGE OF ADJOINING PROPERTIES

North - The properties immediately north of the subject property are occupied by a lumber and hardware yard, a drug rehabilitation facility and homeless shelter, a camera and other small parts machining facility, a printing quality control company, and an automotive parts warehouse (Figure 3, Neighboring Properties).

The properties on the north were formerly occupied by a basket manufacturing company and residential dwellings in 1919; by a warehouse and residential dwellings in 1925; by a warehouse, a workshop, and residences in 1950; and by warehouses and a machinery assembly facility in 1968 and 1970 (see Appendix B, Sanborn Fire Insurance Maps).

East - At present, the properties immediately on the east across Gardena Avenue are occupied by an animal hospital, an earthquake preparedness supply store, and a mechanical engineering/heating ventilation and air conditioning (HVAC) contracting company.

Gardena Avenue was established east of the subject property sometime between 1950 and 1968. From 1919 through the establishment of Gardena Avenue, the properties immediately on the east were undeveloped or developed with a single-family residence (1919), used as a gasoline service station (433 Los Feliz Road - 1925) and for residential purposes, and undeveloped and for

residential purposes (1950) (see Appendix B, Sanborn Fire Insurance Maps). The Sanborn fire insurance maps of 1968 and 1970 show that the properties immediately on the east across Gardena Avenue were used as residences, a pet hospital, and a warehouse at that time.

South - At present, a film editing and developing company, and an industrial park occupy the properties immediately south of the subject property across Los Feliz Road.

The properties on the south across Los Feliz Road were undeveloped or developed with a fruit store, a lumber yard, and a warehouse in 1919; occupied by retail stores, offices, a restaurant, a pattern shop, and a metal works business in 1925; by a gasoline service station, an office and retail stores in 1950; and by display manufacturing facility and a retail store in 1968 and 1970 (see Appendix B, Sanborn Fire Insurance Maps).

West - The Southern Pacific railroad tracks and a parking lot for a Costco shopping center across the railroad tracks adjoin the subject property on the west. The Costco shopping center and several other retail facilities on the west occupy the site of the former Franciscan Ceramics facility which existed at this location from approximately 1905 to 1988.

6.0 PHYSICAL SETTING

The subject property is relatively flat but the general vicinity slopes gently to the southwest at a rate of one foot per every 120 feet. According to the United States Geological Survey (USGS) 7.5 Minute Topographic Quadrangle Map Series, the subject property lies at approximately 442 feet above mean sea level (Figure 1, Vicinity Map).

6.1 Site Drainage

Surface runoff on the subject property and in the vicinity occurs as sheet flow. On the northern portion of the subject property, the runoff flows onto Fernando Court. On the western portion of the subject property, the runoff flows onto Gardena Avenue and then onto Los Feliz Road. On the southern portion of the subject property, the runoff flows into a trough and floor drains. Surface runoff in the general vicinity ultimately drains into the Los Angeles River, located approximately 3,100 feet west of the subject property.

6.2 Regional and Local Hydrogeology

The subject property is situated approximately 3,100 feet east of the Los Angeles River. The Los Angeles River flows southerly in the area of the subject property. The subject property is located approximately 2½ miles south of the Verdugo Wash, a flood control channel.

The subject property is located in the southeastern region of the San Fernando Valley Ground Water Basin (SFVB) (ULARA Watermaster, 2003). The SFVB is one of four basins within the Upper Los Angeles River Area. The basin in the area of the subject property is bounded on the north and east by the Verdugo Mountains, and on the south by the Santa Monica Mountains.

Groundwater beneath the subject property occurs in alluvial deposits of the southeastern portion of the SFVB (DWP, 1983). The alluvial deposits consist primarily of sands and gravels with localized and interbedded lenses of silt and clays. The alluvium overlies sandstones and conglomerates of the Topanga Formation (DWP, 1983).

Records of groundwater conditions in the general vicinity were reviewed at the Los Angeles County Department of Public Works, Hydrogeologic Records Division, to obtain groundwater depth near the subject property. The nearest water well to the subject property is Observation Well 3937G. The well is located near the intersection of Boyce Avenue and Dover Street, approximately 1,300 feet southwest of the subject property. Groundwater in this well was at a depth of approximately 28 feet below ground surface (bgs), as last measured on December 11, 2003.

A review of an annual groundwater monitoring report at the former Franciscan Ceramics site indicates that groundwater west of the subject property was at a depth of approximately 40 feet bgs in 2000 (SECOR, 2000).

General groundwater flow direction for the shallow aquifer in this area is to the south-southwest (ULARA, 2003).

Following the passage of Assembly Bill 1803 in 1983, the California Department of Health Service (DHS) directed a groundwater testing program in the SFVB that led to the discovery of chlorinated hydrocarbons (solvents) such as trichloroethylene (TCE) and perchloroethylene (PCE) at elevated levels in a number of the basin's wells. As a result, the Crystal Springs Well Field, within which the subject property is located, was placed on the Federal National Priority List as a Federal Superfund site (City of Glendale-Water Section, 1993). EP Associates understands that the construction of a groundwater extraction and treatment facility was completed in October 1999. According to a representative of the City of Glendale Water Department, one operating unit became active in January 2002 with an additional unit under design for cleanup of the site.

Additionally, the Pollock Well Field, within which the subject property is located, was also placed on the Federal National Priority List as a Federal Superfund site. The U.S. Environmental Protection Agency (U.S. EPA) and the Los Angeles Department of Water and Power (LADWP)

have evaluated the extent of ground-water contamination. In March 1999, LADWP activated a ground-water remediation project at two of its wells located approximately 1¼ mile south-southeast of the subject property at the off-ramp of Glendale Freeway and Fletcher Drive (U.S. EPA, 1999). The treatment involves the removal of contaminants using liquid-phase carbon adsorption process.

6.3 Surface Water Resources

No surface water resources such as lakes, ponds, pits, lagoons, or wetlands exist on the subject property. The nearest major source of surface water is the Los Angeles River, located approximately 3,100 feet west of the subject property. The Verdugo Wash, a flood control channel, is located approximately 2½ miles north of the subject property.

6.4 Sensitive Environmental Receptors

The subject property, based on available information, does not encompass any national parks or forests, wildlife refuges, wild or scenic rivers, or other known environmentally sensitive areas.

6.5 Flood Hazard

According to the City of Glendale-Engineering Department, the Federal Emergency Management Agency (FEMA) has advised the City of Glendale that no special flood hazard area exists for the city. The entire community is placed in Zone D, which has no mandatory flood insurance purchase requirement.

7.0 RECORDS REVIEW

7.1 Sanborn Fire Insurance Maps

Sanborn fire insurance maps are large-scale maps that depict the commercial, industrial, and residential sections of approximately 12,000 cities and towns in the United States. These specialized maps were prepared for the exclusive use of fire insurance companies and underwriters to provide accurate, current, and detailed information about the buildings they were insuring. The maps show the size, shape, and construction of dwellings, commercial buildings, and factories, as well as indicate widths and names of streets, property boundaries, building use, and house and block numbers.

EP Associates conducted a review of available Sanborn fire insurance maps to identify historical land use of the subject property and neighboring properties. Sanborn fire insurance maps

reviewed covered the years 1919, 1925, 1950, 1968, and 1970 (Appendix B, Sanborn Fire Insurance Maps).

In 1919, the subject property is improved along Fernando Court with five single-story residences and two structures possibly used for storage. Additionally, a single-family residence is located along the Southern Pacific railroad tracks near the southern portion of the subject property. Gardena Avenue is not present in the 1919 Sanborn fire insurance map.

In 1925, the subject property is improved along Fernando Court with, from northeast to southwest, three single-family residences and an associated detached garage, two single-family residences and two associated detached garages, a vacant lot, and an ice manufacturing facility which includes the manufacturing plant, an office, a cold storage room, a crate storage room, an oil room, and a parking dock. The subject property is improved along Los Feliz Road with, from northeast to southwest, two vacant lots, a store and a single-family dwelling, a vacant lot, and a beverage manufacturing facility which includes the manufacturing plant, an office, a mixing room, and a detached storage room. Gardena Avenue is not present in the 1925 map. A gasoline service station is present at the site of the existing Gardena Avenue.

In 1950, the subject property is improved along Fernando Court with, from northeast to southwest, two single-family residences and an associated detached garage, two single-family residences and two associated detached garages, a vacant lot, and a frozen produce plant. The frozen produce plant is similar in configuration to the former ice manufacturing facility mentioned above with the exception of three additional rooms to the former facility. The subject property is improved along Los Feliz Road with, from northeast to southwest, a gasoline service station, a retail printing and piano supplies building, a furniture storage and plastic/metal manufacturing plant, and a beer and wine warehouse. Gardena Avenue is not present in the 1950 map.

In 1968 and 1970, the subject property is improved with a frozen produce facility which extends from Gardena Avenue on the northeast to the Southern Pacific railroad tracks on the southwest. The facility is bounded on the northwest and southeast by Fernando Court and West Los Feliz Road, respectively. The facility includes cold and dry storage areas, freezer rooms, offices, an ice machine, a vegetable oil and oil products warehouse, and a preparation room.

7.2 Historical Aerial Photographs

Stereoscopic aerial photographs available at Continental Aerial Photo, Inc., in Los Alamitos, California, were viewed as part of this investigation to identify historical land use. Photographs reviewed covered the years 1952, 1970, 1976, 1979, 1986, 1990, 1995, and 1998.

In the 1952 aerial photographs, the subject property is improved with several commercial and industrial structures. Building 4 is not present. Gardena Avenue is not present to the east of the subject property at this time. Commercial and industrial structures are located north, east, and west of the subject property. The Franciscan Ceramics facility is visible west of the subject property. Residential units are located south of the subject property across the intersection of Los Feliz Road and the Southern Pacific railroad tracks.

In the 1970 photographs, the subject property is improved with all of the existing structures and an additional structure located near the northwest corner of the subject property. Gardena Avenue is now present east of the subject property. There are no significant changes to the properties on the north, south, east, or west of the subject property.

In the 1976 through 1986 photographs, the existing six structures are visible on the subject property. The western corner of the subject property is unimproved and appears to be paved with asphalt. The eastern corner and the southeast portion of the subject property also appear to be paved with asphalt. Commercial and industrial properties surround the subject property in all directions. Residential units are located further south of the subject property across the Southern Pacific railroad tracks.

In the 1990 photographs, the subject property is unchanged with the exception of a structure now visible on the western corner of the property. The adjoining properties are unchanged with the exception of the demolition of some of the Franciscan Ceramics facility buildings to the west of the subject property.

In the 1995 photographs, the subject property appears to be improved with the existing structures. There are commercial and industrial structures located north, east, and south of the subject property. The former Franciscan Ceramics property to the west of the subject property is now vacant and unimproved.

In the 1998 photographs, the subject property and the adjoining properties appear in the existing configurations. Commercial and industrial properties are located around the subject property in all directions. The former Franciscan Ceramics property is now improved with the existing Costco, Toys R Us, and the Lasung church buildings.

7.3 Permits

Building permit records maintained at the City of Glendale Permit Services Department were obtained and reviewed as part of this investigation. EP Associates' findings are summarized below.

1921 - Construct a building for bottling works and for offices	463 W. Los Feliz Rd.
1922 - Construct a candy factory	463 W. Los Feliz Rd.
1922 - Addition to factory	463 W. Los Feliz Rd.
1924 - Addition to a building	463 W. Los Feliz Rd.
1924 - Construct an ice plant	456 Fernando Ct.
1924 - Install a gasoline pump	456 Fernando Ct.
1927 - Install a gasoline pump and gasoline storage tanks	449 W. Los Feliz Rd.
1935 - Construct a storage building	447 W. Los Feliz Rd.
1938 - Demolish building and disconnect plumbing	447-463 W. Los Feliz Rd.
1938 - Construct a warehouse	451-461 W. Los Feliz Rd.
1938 - Reroof building	445-447 W. Los Feliz Rd.
1938 - Install partitions to store	451-461 W. Los Feliz Rd.
1940 - Alter portions of the building	465 W. Los Feliz Rd.
1947 - Construct a storage office	441 W. Los Feliz Rd.
1947 - Additions to a building	441-443 W. Los Feliz Rd.
1951 - Construct a storage freezer	446 Fernando Ct.
1951 - Construct a sheet metal shop	441½-443 W. Los Feliz Rd.
1954 - Remodel interior of building	465 W. Los Feliz Rd.
1955 - Construct a warehouse and storage	439-443 W. Los Feliz Rd.
1955 - Remodel building	461-465 W. Los Feliz Rd.
1957 - Remodel store	439 W. Los Feliz Rd.
1959 - Construct a loading dock floor	450 Fernando Ct.
1959 - Construct a dock canopy	450 Fernando Ct.
1963 - Demolish building and disconnect plumbing	465 W. Los Feliz Rd.
1967 - Alter height of ceiling	465 W. Los Feliz Rd.
1969 - Repair fire damage	465 W. Los Feliz Rd.
1975 - Certificate of Use for the manufacturing of salad dressing	465 W. Los Feliz Rd.
1976 - Demolish and remove all buildings	450 Fernando Ct.
1976 - Construct a concrete pad and install a tank	465 W. Los Feliz Rd.
1979 - Certificate of Use for a food manufacturing plant	465 W. Los Feliz Rd.
1983 - Reroof three buildings	465 W. Los Feliz Rd.
1985 - Addition of non-bearing partition walls	465 W. Los Feliz Rd.
1985 - Certificate of Use for a warehouse	465 W. Los Feliz Rd. #E
1985 - Certificate of Use for the storage of party supplies	465 W. Los Feliz Rd.
1985 - Certificate of Use for a film stripping office	465 W. Los Feliz Rd.
1985 - Certificate of Use for potato baking	465 W. Los Feliz Rd.
1985 - Certificate of Use for retail pool supplies	465 W. Los Feliz Rd.
1986 - Certificate of Use for the repair of electronic motors	465 W. Los Feliz Rd.
1986 - Certificate of Use for an office of an ice cream company	465 W. Los Feliz Rd. #C

1989 - Certificate of Use for food storage	465 W. Los Feliz Rd. #B
1989 - Certificate of Use for storage and office of drinking water	465 W. Los Feliz Rd. #F
1993 - Request letter to change address to 450 Fernando Ct.	465 W. Los Feliz Rd.
1995 - Certificate of Use for International Cargo Services	465 W. Los Feliz Rd. #C
1996 - Certificate of Use for Nichols News Agency	465 W. Los Feliz Rd. #A and #D
1998 - Certificate of Use Mr. Potato, Inc	465 W. Los Feliz Rd. #H
1998 - Construct a storage room with lighting	465 W. Los Feliz Rd. #A
1998 - Certificate of Use for Ray Pierce Productions	465 W. Los Feliz Rd. #L
2002 - Zoning Use Certificate for American Bakery Products	465 W. Los Feliz Rd. #B
2002 - Zoning Use Certificate for M&D Supply	465 W. Los Feliz Rd. #C
2003 - Zoning Use Certificate Use for a warehouse	465 W. Los Feliz Rd. #G
2003 - Zoning Use Certificate for a warehouse	465 W. Los Feliz Rd. #A
2003 - Zoning Use Certificate for a warehouse	465 W. Los Feliz Rd. #B1

Copies of the permit records and certificates of use and occupancy are included in Appendix C, Building Permits.

7.4 Oil and Gas Maps

The State of California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (Division), oversees the drilling, operation, maintenance, plugging, and abandonment of oil, natural gas, and geothermal wells. The Division provides statewide maps with locations and status of all oil and gas wells. These maps were reviewed by EP Associates and indicate that there are no oil or gas wells within the subject property boundaries or in the nearby vicinity.

7.5 City Directory Research

EP Associates reviewed historical local street directories to identify past property use. Local street directories for the City of Glendale were published by R.L. Polk & Company. City directories reviewed covered the years 1922, 1924, 1927, 1930, 1933, 1938, 1943, 1945, 1949, 1951, 1955, 1958, 1962, 1964, 1968, 1970, 1973, and 1977. EP Associates' findings are summarized below:

1922 Immigrant residential	463 W. Los Feliz Rd.
Residential	434 Fernando Ct.
Residential	450 Fernando Ct.
Residential	454 Fernando Ct.
Residential	458 Fernando Ct.

1924 Florist (Joe Oka)	447 W. Los Feliz Rd.
The Comalt Company	463 W. Los Feliz Rd.
Residential	434 Fernando Ct.
Residential	438 Fernando Ct.
Residential	438½ Fernando Ct.
1927 Cambell-Land-Pearson Inc. (used cars)	435 W. Los Feliz Rd.
T & W Poultry Market	447 W. Los Feliz Rd.
The Comalt Company Inc.	463 W. Los Feliz Rd.
Residential	434 Fernando Ct.
Residential	438 Fernando Ct.
Residential	438½ Fernando Ct.
National Ice & C S Company	450 Fernando Ct.
1930 Service station (H S Bent)	435 W. Los Feliz Rd.
Service station (H F Richardson)	447-449 W. Los Feliz Rd.
Al Fresco Cafe	461 W. Los Feliz Rd.
California Comalt Company	463 W. Los Feliz Rd.
Residential	434 Fernando Ct.
Residential	438 Fernando Ct.
Residential	438½ Fernando Ct.
Glendale National Ice & C S Company	450 Fernando Ct.
1933 Service station (E J Bartlet)	435 W. Los Feliz Rd.
Vacant	445 W. Los Feliz Rd.
Cummings & Harris (oils)	449 W. Los Feliz Rd.
Vacant	461 W. Los Feliz Rd.
Christo Dulos (antiques)	463 W. Los Feliz Rd.
Residential	434 Fernando Ct.
Residential	438 Fernando Ct.
Residential	438½ Fernando Ct.
National Ice & C S Company	450 Fernando Ct.
1938 Service station (E J Bartlet)	435 W. Los Feliz Rd.
Blankenship Lbr & Door Company	445 W. Los Feliz Rd.
H H Jepson (furniture)	449 W. Los Feliz Rd.
Vacant	463 W. Los Feliz Rd.
Residential	434 Fernando Ct.
Residential	438 Fernando Ct.

	Residential	438½ Fernando Ct.
	Aztec Brewing Company	448 Fernando Ct.
	California Consumers	450 Fernando Ct.
1943	Service station (E J Bartlet)	435 W. Los Feliz Rd.
	Antiques (R Springer)	445-447 W. Los Feliz Rd.
	F J Bird (cabinet maker)	447a W. Los Feliz Rd.
	Park Beverage Company	461 W. Los Feliz Rd.
	General Brewing Corporation	465 W. Los Feliz Rd.
	Residential	434 Fernando Ct.
	Residential	438 Fernando Ct.
	Residential	438½ Fernando Ct.
	Quality Col-Pak	450 Fernando Ct.
1945	Service station (E J Bartlet)	435 W. Los Feliz Rd.
	Antiques (R Springer)	445-447 W. Los Feliz Rd.
	Western Plastics Inc.	447a W. Los Feliz Rd.
	Park Beverage Company	461 W. Los Feliz Rd.
	General Brewing Corporation	465 W. Los Feliz Rd.
	Residential	434 Fernando Ct.
	Residential	438 Fernando Ct.
	Residential	438½ Fernando Ct.
	Quality Col-Pak	450 Fernando Ct.
1949	Service station (E J Bartlet)	435 W. Los Feliz Rd.
	Pacific Piano Supply Company	441 W. Los Feliz Rd.
	Tumer-Yourec Press	443 W. Los Feliz Rd.
	Antiques (R Springer)	445-447 W. Los Feliz Rd.
	G C Cann (cabinet maker)	449 W. Los Feliz Rd.
	Park Beverage Company	461 W. Los Feliz Rd.
	General Brewing Corporation	465 W. Los Feliz Rd.
	Residential	434 Fernando Ct.
	Residential	438 Fernando Ct.
	Residential	438½ Fernando Ct.
	Quality Col-Pak	450 Fernando Ct.
1951	William Pratty (garbage collector)	435 W. Los Feliz Rd.
	Western Heating and Air Conditioning	441 W. Los Feliz Rd.
	Vacant	445 W. Los Feliz Rd.

	Carcook Company Inc. (toy manufacturing)	447 W. Los Feliz Rd.
	Morrow-Richards Company (machine shop)	447a W. Los Feliz Rd.
	Park Beverage Company (distributers)	461 W. Los Feliz Rd.
	Lucky Lager Brewing Company	465 W. Los Feliz Rd.
	Residential	434 Fernando Ct.
	Residential	438 Fernando Ct.
	Residential	438½ Fernando Ct.
	Quality Col-Pak (frozen foods)	450 Fernando Ct.
1955	William Pratty (rubbish disposal)	435 W. Los Feliz Rd.
	Vacant	441½ W. Los Feliz Rd.
	Vacant	443 W. Los Feliz Rd.
	Vacant	445 W. Los Feliz Rd.
	Vacant	445½ W. Los Feliz Rd.
	Vacant	447 W. Los Feliz Rd.
	Glen Webb & Company (food distributers)	461-465 W. Los Feliz Rd.
	Residential	434 Fernando Ct.
	Residential	438 Fernando Ct.
	Residential	438½ Fernando Ct.
	Quality Col-Pak (frozen foods)	450 Fernando Ct.
1958	Glen Webb & Company (food brokers)	465 W. Los Feliz Rd.
	Glencoe Store	465 W. Los Feliz Rd.
	Residential	434 Fernando Ct.
	Residential	438 Fernando Ct.
	Residential	438½ Fernando Ct.
	Quality Col-Pak (frozen foods)	450 Fernando Ct.
1962	Glen Webb & Company (food brokers)	465 W. Los Feliz Rd.
	Residential	434 Fernando Ct.
	Residential	438 Fernando Ct.
	Residential	438½ Fernando Ct.
	Quality Col-Pak (frozen foods)	450 Fernando Ct.
1964	Glen Webb & Company (food brokers)	465 W. Los Feliz Rd.
	Quality Col-Pak (frozen foods)	450 Fernando Ct.
1968	Glencoe Food Products (food manufacturing)	465 W. Los Feliz Rd.
	Quality Col-Pak (frozen foods)	450 Fernando Ct.

1970	Glencoe Food Products (food manufacturing)	465 W. Los Feliz Rd.
	Quality Col-Pak (frozen foods)	450 Fernando Ct.
1973	Glen-Webb & Company (food manufacturing)	465 W. Los Feliz Rd.
	Quality Col-Pak (warehouse)	437 Fernando Ct.
	Quality Col-Pak (frozen foods)	450 Fernando Ct.
1977	Glen-Webb & Company (food manufacturing)	465 W. Los Feliz Rd.
	Vacant	437 Fernando Ct.
	Vacant	450 Fernando Ct.

7.6 Environmental Database

Environmental Data Resources, Inc. (EDR) of Southport, Connecticut, was retained to provide an environmental record search of various public sources, which identify hazardous waste sites and other sites posing potential environmental concerns. The database search was performed for properties located within a 1-mile radius of the subject property in accordance with ASTM Standard E 1527-00.

The subject property (Glendale Rotary Offset Printing) is listed in the HAZNET database. The HAZNET database is comprised of hazardous waste manifests supplied by the Department of Toxic Substances Control. The subject property is listed for having generated and disposed of photochemical and photo processing waste. No violations were found in conjunction with the subject property's disposal of these hazardous wastes.

EDR's significant findings are summarized below. Detailed descriptions of the facilities identified in the database search are included in Appendix D, EDR Environmental Record Search.

FEDERAL SOURCES

NPL-National Priority List

The United States Environmental Protection Agency (U.S. EPA) has prioritized sites with significant risk to human health and the environment. These sites receive remedial funding under the Comprehensive Environmental Response and Liability Act (CERCLA).

The subject property is located within the Crystal Springs and Pollack Well Field Areas, which have been placed on the Federal National Priority List as a Federal Superfund site. The status

of the Crystal Springs and Pollock Well Field Areas were described in Section 6.2 of this report.

Because of their importance for drinking water supply, the Crystal Springs Well Field Area and the Pollack Well Field Area are listed in the EDR database.

CERCLIS-Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS is a database used by U.S. EPA to track activities conducted under CERCLA and the Superfund Amendments and Reauthorization Act (SARA) of 1986.

Sites to be included in this database are identified primarily by the reporting requirements of hazardous substances treatment, storage and disposal (TSD) facilities and releases larger than specific Reportable Quantities (RQ), established by U.S. EPA.

The U.S. EPA has prioritized sites with significant risk to human health and the environment. These sites receive remedial funding under the Comprehensive Environmental Response Conservation and Liability Act (CERCLA) of 1980.

The Crystal Springs Well Field Area and the Pollack Well Field Area previously discussed are the only sites reported in this database located within a 1/2-mile radius of the subject property.

RCRIS-Small and Large Quantity Generators

The Resource Conservation and Recovery Information System 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. Large quantity generators (LQGs) generate over 1,000 kg of hazardous waste, or over 1 kg of acutely hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste.

Fifteen sites are listed within a 1/4-mile radius of the subject property. The former Franciscan Ceramics facility is listed in this database. Throughout its years of operation, natural ravines and depressions at the site were filled with approximately one hundred thousand cubic yards of soil, broken clay pipe, and waste materials from ceramic tile and dinnerware manufacturing activities. This waste material accumulated in some locations to a depth of approximately 25 feet. In addition, unfired glazing material, containing lead, zinc, cadmium, and other bioaccumulative metals, was also randomly deposited in some fill areas.

At present, the DTSC is the lead agency overseeing operations and maintenance procedures at the facility. Annual groundwater monitoring tests are conducted at the facility to assess the possible presence and seepage of soil contaminants including lead, cadmium, and zinc. To date, groundwater has not been impacted and is unlikely to be impacted in the future due to the installation of a high density poly ethylene liner under impacted areas. General monitoring is expected to continue at the facility for approximately the next thirty years, by which time natural degradation of contaminants is expected to have taken place.

Other than the former Franciscan Ceramics facility, the nearest of these sites is Guardian X-Ray Services, located at 1422 Gardena Avenue, approximately 175 feet southeast of the subject property. The facility is listed as a small quantity generator of inorganic solid waste, photochemical waste, and metal sludge. No violations were reported in conjunction with this facility's disposal of these hazardous wastes. None of the sites identified in this database are expected to adversely affect the subject property.

CALIFORNIA STATE SOURCES

AWP

California's Department of Toxic Substance Control's Annual Workplan, formerly known as BEP, identifies known hazardous substance sites targeted for cleanup. The source is the California Environmental Protection Agency.

The Crystal Springs and Pollack Wellfield Areas are listed in this database. Because of their location and distance, these sites are not expected to adversely impact the subject property.

CAL-SITES

The Cal-Site database contains both known and potential hazardous substance sites. This database has been compiled by the California Department of Toxic Substance Control.

The Crystal Springs and Pollack Wellfield Areas and the former Franciscan Ceramics facility are listed in this database. Conditions at these sites are not expected to adversely impact the subject property. None of the sites identified in this database are expected to adversely affect the subject property.

CORTESE

The CORTESE database, developed by the California Environmental Protection Agency-Office of Emergency Information, identifies public drinking water wells with detectable levels of contamination, hazardous substances sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with underground storage tanks (USTs) having a reportable release, and all solid waste disposal facilities from which there is known migration.

Twenty sites located within a ½-mile radius of the subject property are identified in this database. The former Franciscan Ceramics facility is listed in this database. Other than the former Franciscan Ceramics facility, the nearest of these sites is a former ARCO Service Station #0051, located at 3941 San Fernando Road, approximately 550 feet east of the subject property, is listed in this database. This facility is also listed in the LUST database. A gasoline leak was detected at the facility in 1995. Groundwater was impacted beneath the facility. However, the case was closed in 1999 indicating that pollutants have been remediated to acceptable regulatory levels. The environmental conditions present at this site and the other sites listed in this database are not expected to adversely impact the subject property.

LUST(S)-Leaking Underground Storage Tanks-California State

The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The Leaking Underground Storage Tanks Information System is maintained by the State Water Resources Control Board pursuant to Section 25295 of the Health and Safety Code.

Eight sites located within a ¼ mile radius of the subject property are listed in this database. The nearest of these sites is the former ARCO Service Station #0051 discussed above in the CORTESE database section of this report. The California Car Wash facility, located at 3940 San Fernando Road, approximately 600 feet east of the subject property is also listed in this database. Records reviewed at the Glendale Fire Department - Environmental Management Center (EMC) indicate that in 1999, a total of six underground storage tanks were removed from the facility. During the tank removal process, soil samples were collected from beneath the tanks, dispensers, and piping. Total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX), and lead were detected in elevated concentrations at various locations beneath the facility. A subsequent subsurface soil investigation was conducted in July 2000 in order to delineate the horizontal and vertical extent of impacted soil. The July 2000 investigation confirmed that no concentrations of TPH-g or BTEX were present below 15 feet bgs and that no concentrations of lead were present below 5 feet bgs at the facility. The EMC granted a case

closure at the facility in September of 2000 due to the relatively low concentrations of contaminants identified during soil investigations and the distance between the impacted soils and groundwater. However, the California Regional Water Quality Control Board is keeping the case open for post-remedial monitoring purposes. The environmental conditions present at this site and the other sites listed in this database are not expected to adversely impact the subject property.

BEP

The Department of Health Services developed a site specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds.

There are two California Bond Expenditure Plan sites located within approximately one mile of the subject property. The former Franciscan Ceramics facility and the Pollock Well Field Area are the only two sites listed in this database. As discussed above, neither of the two sites are expected to adversely impact the subject property.

UST-Permitted Underground Storage Tanks - State Water Resources Control Board

The Cortese Bill (AB 1013), enacted in 1983, required registration of all USTs with the State Water Resources Control Board by July 1, 1984. About 176,000 tanks and surface impounds were registered between 1984 and 1987. An amendment (AB 1413) was passed in 1987, effectively removing the State Board from the registration process starting January 1, 1988. The data reflects the information collected by the state between 1984 and 1987 as well as 1995 and includes all tanks and surface impounds in use or closed between 1974 and 1995.

Home and farm heating fuel tanks with capacities of 1,100 gallons or less and "structures such as sumps, separators, storm drains, catch basins, oil field gathering lines, refinery pipelines, lagoons, evaporation ponds, well cellars, separation sumps, lined and unlined pits, sumps and lagoons" are excluded.

Three UST sites are listed within a ¼ mile radius of the subject property. The nearest of these sites is Pacific States Box & Basket Company, located at 1295 South Los Angeles Street, approximately 350 feet northwest of the subject property. EDR indicates that three USTs are present at the facility. The conditions present at this site and the other sites listed in this database are not expected to adversely impact the subject property.

CA FID

The Facility Inventory Database contains active and inactive underground storage tank locations. The information was provided by the State Water Resource Control Board.

There are four sites within a ¼-mile radius of the subject property listed in this database. The nearest property identified in the EDR report with a current or former underground storage tank is the former Franciscan Ceramics facility discussed above in Section 5.0 of this report. This site is not expected to adversely impact the subject property.

HIST UST

This database is known as Hazardous Substance Storage Container Database and is developed by the California Water Resources Control Board. The database includes a historical listing of USTs.

There are twelve sites within a ¼-mile radius of the subject property listed in this database. The nearest property identified in the EDR report with a current or former underground storage tank is the former Franciscan Ceramics facility discussed above in Section 7.6 (RCRIS) of this report. This site is not expected to adversely impact the subject property.

Other Database Information

There was no other significant database information given in the EDR report that would impact the subject property.

8.0 SITE AND ADJOINING PROPERTY RECONNAISSANCE

EP Associates conducted a walk-through reconnaissance of the subject property and adjoining properties on 8 occasions during the period from April 13 through June 7, 2004. EP Associates' findings are summarized below.

8.1 Site Reconnaissance

8.1.1 Hazardous Substances and Petroleum Products

Chemical substances were stored in various size containers throughout the subject property. In general, there was no visual evidence of significant chemical release at the subject property, with the exception of two locations, including *Byron's Auto* and an area of a decommissioned air

compressor located south of Building 1. At *Byron's Auto*, several locations appeared to be stained with oil or grease, primarily in the service bay and an area south of a planter near the northwest corner of the subject property (see Appendix A, Site Photographs).

Chemical substances and hazardous wastes identified at various parcels are discussed below (see Appendix A, Site Photographs). The wastes are periodically removed from the subject property by various waste management companies for offsite recycling or disposal.

Parcel 1

Paint, paint thinner, glue, and other building maintenance chemicals were stored inside *Art Construction Studio* for small construction projects. A storage room located in Building 2 contained disinfectants, sanitizers, paints, paint thinners, soaps, grout, drain cleaner, deodorizers, weed killers, and insecticides in small containers. Typical household cleaning agents were also stored throughout the parcel.

Parcel 2

New and spent solvents and inks were stored in various sizes of containers outside the south gate of the *Glendale Rotary Offset Printing Company* building. Empty 55-gallon chemical drums were stored in the yard east of Building 5. Paint and paint thinners, and typical household cleaning agents were also stored inside *Art and Oils for Less*. Building maintenance chemicals and typical household cleaning agents were also stored in small containers inside Buildings 3, 5, and 6.

Parcel 3

Acetone is stored and used at *Pyramid Marble* to clean and prepare granite and marble. New and used motor oil, used oil filters, and other automobile-related chemicals were stored in the service bay and in the yard of *Byron's Auto*. Additionally, a parts-cleaning aboveground solvent tank was located inside the service bay of *Byron's Auto*.

Parcel 4

New and waste ink, solvent, and photo processing chemicals, as well as adhesives, blanket wash, fountain solution, plate scratch removers, and various toners, along with typical building maintenance chemicals, were stored inside the *Glendale Rotary Offset Printing Company* building (Building 4). A detailed list of chemicals stored in Building 4 can be found in Appendix C.

As mentioned above, typical household cleaning items and building maintenance chemicals were found throughout the buildings on the subject property in accessible areas. A portion of Building 6, occupied by *American Bakery Products*, was not accessible to EP Associates during this investigation.

8.1.2 Underground and Aboveground Storage Tanks

EP Associates did not find any visual evidence of the presence of underground or aboveground hazardous material storage tanks at the subject property. However, records obtained from EMC indicate that USTs have historically existed at the subject property or have been removed. The records indicate that in 1952, a 10,000-gallon gasoline UST was installed adjacent to the southeast corner of the subject property at 435 West Los Feliz Road in association with a "Rubbish Pick Up Service". There are no tank removal records for the 10,000-gallon UST.

A Sanborn fire insurance map of 1925 also reveals that a gasoline service station (identified in the map as "Gas and Oil") existed in the southeastern portion of the subject property at 435 West Los Feliz Road. The presence of the gasoline service station at 435 West Los Feliz Road was verified in the local street directories of 1930, 1933, 1938, 1943, 1945, and 1949.

Additionally, the local street directory of 1930 reveals the presence of another gasoline service station at 447-449 West Los Feliz Road (H F Richardson service station), situated at the southwest portion of Parcel 2, currently a yard and loading dock located west of Building 6. EP Associates found no UST installation or removal records for this service station.

Furthermore, records indicate that in 1950, a 1,000-gallon gasoline UST was installed in the northwest portion of the subject property at 450 Fernando Court in association with Quality Kol-Pak, a former tenant on the subject property. Records also indicate that this tank was removed in 1962. However, a permit to maintain a 1,000-gallon flammable liquid UST, dated January 1975, indicates that another UST had been subsequently installed at the same address. There are no tank removal records for this 1,000-gallon UST. A ground penetrating radar (GPR) survey conducted on portions of Parcel 3 by Manness Environmental Services Inc. (Manness) in March 1997 revealed no "UST-like structures...in the magnetics data" in the vicinity of 450 Fernando Court. However, a review of the site plan attached to the Manness report indicates that the GPR survey did not encompass an area or yield any data from within approximately 12 feet of the subject property boundaries at the northwest corner, including a portion of an existing planter (see Figure 2, Site Plan), where according to the subject property owner, the former UST was potentially located. Based on this information and the fact that there are no tank removal records at the EMC, the possibility exists that a 1,000-gallon UST is present in the northwest corner of Parcel 3.

Based on investigation to date, there is a potential for USTs to exist at the following locations:

- Southeast corner of Parcel 2 (435 West Los Feliz Road)
- Southwest corner of Parcel 2 (447-449 West Los Feliz Road)
- Northwest corner of Parcel 3 (450 Fernando Court)

See Figure 2, Site Plan and Appendix C, Building Permits.

8.1.3. Transformers and Fluorescent Light Ballasts

Four pad-mounted and three pole-mounted electrical transformers are located within the subject property boundaries. The pad-mounted transformers are located in an enclosure attached to the south wall of the *Glendale Offset Printing Company* building. The pole-mounted transformers are located adjacent to the northwest corner of the subject property. All transformers are posted with a "NON PCB" identification label, indicating that the dielectric fluid used in the transformers does not contain polychlorinated biphenyls (PCBs). Additionally, the transformers appeared physically intact with no signs of fluid leakage.

Portions of the lighting system inside the buildings on the subject property consists of fluorescent light tubing with ballasts. Ballasts of the fixtures could potentially contain PCBs. Fluorescent light tubes contain mercury vapors.

8.1.4 Asbestos

Suspect asbestos-containing materials (ACM) are present in the subject property buildings. EP Associates did not conduct an asbestos survey to identify ACM in the subject property buildings as part of this investigation.

8.1.5 Radon

As part of this investigation, EP Associates reviewed the California State Radon Survey, which was conducted jointly by DHS and U.S. EPA (DHS, 1990). The survey performed in California is part of a nationwide program by U.S. EPA to measure levels of radon in all states in the country. In this study, California has been organized into nine sampling regions based on geology, climate, and background radon information. The subject property is located in Region 9, which includes Los Angeles, Orange, San Bernardino, Riverside, San Diego, and Imperial Counties. Results of the survey indicate that over 99 percent of the homes surveyed in Region 9 have radon concentrations less than 4 pico Curies per liter (pCi/l) of air, the action level established by U.S. EPA. The average concentration of radon in this region was 0.6 pCi/l.

8.1.6 Solid Waste Management and Landfills

Solid waste generated at the subject property consists of typical office refuse and inert waste. The waste generated at the subject property is stored in approximately 13 containers positioned throughout various parcels. The waste containers are removed by various independent waste management companies for recycling and offsite disposal.

At present, the City of Glendale uses the Scholl Canyon Landfill for disposal of municipal waste collected by the City. The landfill is located approximately 4 miles northeast of the subject property. The City also uses the Brand Park Landfill for disposal of inert debris from the City's construction and maintenance projects. This landfill is located approximately 5 miles northwest of the subject property.

Historical local street directories date 1951 and 1955 reveal that a garbage collection/rubbish disposal company under the name of William Pratty operated at 435 West Los Feliz Road, on the eastern portion of Parcel 2. This information was corroborated by a permit record dated 1952 indicating that Pratty Company, a "Rubbish Pick Up Service", installed a 10,000-gallon UST at this location. It is EP Associates' opinion that, due to the limited size of the area, it is unlikely that rubbish was disposed of at this location, but rather the site was likely used as a rubbish collection truck yard.

8.1.7 Sumps and Clarifiers

Where visible, EP Associates identified no sumps or clarifiers at the subject property. However, there is an indirect waste receptor drain/container located on the floor inside the film development area of the *Glendale Rotary Offset Printing Company* building (see Appendix A, Site Photographs). Silver-containing waste from photochemical processing is temporarily stored in the indirect waste receptor, which serves as a small sump. The silver-containing waste is periodically removed from the containment approximately once a month by an independent environmental waste removal company.

8.1.8 Personal Interviews

As a part of a Phase I ESA, EP Associates routinely interviews available property owners/operators or their representatives to obtain information concerning past business practices of the property. EP Associates interviewed Mr. Jerry Bir of *Glendale Rotary Offset Printing Company*, partner of the subject property. Mr. Bir stated that he and a partner purchased the subject property in 1981. He also stated that Building 4 was rented to other tenants until 1998, at which time the *Glendale Rotary Offset Printing Company* moved into the

building. He stated that prior to *Glendale Rotary Offset Printing Company*, a cold storage company occupied the building. Furthermore, Mr. Bir stated that he was aware of a possible fuel UST being utilized at the northwest portion of Parcel 3 at some time in the past.

EP Associates also interviewed all available subject property tenants. In general, the tenants provided a description of their business and the duration of their occupancy. EP Associates specifically reports the results of interview with Mr. Byron Rosas of *Byron's Auto*, who stores and uses considerable amounts of chemical substances and petroleum products at his location. Mr. Rosas stated that he has occupied 450 Fernando Court for approximately 7 years, where he performs automobile repair activities, including engine repair. He stores and uses parts cleaning solvents and other automobile repair related compounds on site. According to Mr. Rosas, waste solvent, oil, and oil filters are removed from the site by Safety-Kleen, a hazardous waste management company, for off-site recycling and disposal.

None of the individuals interviewed expressed knowledge of any chemical release on the subject property or the adjoining properties that would adversely impact the subject property.

8.2 Adjoining Properties Reconnaissance

The reconnaissance of adjoining properties was limited to identifying visual evidence of past spillage or the presence of regulated chemicals near the subject property. EP Associates found no evidence of impacted soils or stained pavement indicating possible spillage of hazardous substances at the adjoining properties, except for typical stains caused by leakage of motor oil from automobiles in parking areas.

9.0 FINDINGS AND CONCLUSIONS

Based on a review of regulatory agency records; interviews with regulatory agency representatives, property owners, owner representative, or operators; an evaluation of Sanborn fire insurance maps, historical aerial photographs, and historical city directories; consideration of the present and historical usage of the subject property; and reconnaissance of the subject property and adjoining properties, EP Associates has identified no recognized environmental conditions at the subject property and reports the following findings and conclusions:

- The subject property is approximately 86,000 square feet of land that is improved with 6 commercial buildings.
- One of the tenants, *Glendale Rotary Offset Printing Company*, is listed in the HAZNET database. The HAZNET database is comprised of hazardous waste manifests supplied

by the Department of Toxic Substances Control. *Glendale Rotary Offset Printing Company* is listed for having generated and disposed of photochemical and photo processing waste. No violations were found in conjunction with its disposal of these hazardous wastes.

- Chemical substances such as petroleum hydrocarbons, solvents, waste oil, and other typical building maintenance compounds were stored in various size containers throughout the subject property. In general, there was no visual evidence of significant chemical release at the subject property, with the exception of two locations, including *Byron's Auto* and an area of a decommissioned air compressor located south of Building 1.
- Where accessible, EP Associates identified no sumps or clarifiers at the subject property. However, there is an indirect waste receptor drain/container located on the floor inside the film development area of the *Glendale Rotary Offset Printing Company* building. Silver-containing waste from photochemical processing is temporarily stored in the indirect waste receptor, which serves as a small sump.
- Two gasoline service stations were present on the subject property in the past. One service station, which operated from approximately 1930 until 1950, was located on the southeast portion of Parcel 2. Another service station operated from approximately 1930 until 1933, was located on the southwest portion of Parcel 2.
- Records indicate that at least USTs were installed at the northwest portion of Parcel 3 (450 Fernando Court). Records also indicate that at least one UST was removed.
- Records reveal that in the early 1950s, a garbage collection and rubbish disposal company operated at 435 West Los Feliz Road, on the eastern portion of Parcel 2. The company utilized a 10,000-gallon UST.
- Based on this investigation, there is a potential for USTs to exist at three locations on the subject property; the southeast corner of Parcel 2 (435 West Los Feliz Road), the southwest corner of Parcel 2 (447-449 West Los Feliz Road), and the northwest corner of Parcel 3 (450 Fernando Court).
- In 1925, a service station was present at the location of existing Gardena Avenue, immediately east of Parcel 2 (433 West Los Feliz Road).

- Suspect ACM are present in the subject property buildings. EP Associates did not conduct an asbestos survey to identify ACM as part of this investigation.
- Four pad-mounted and three pole-mounted electrical transformers are located within the subject property boundaries. All transformers are posted with a "NON PCB" identification label, indicating that the dielectric fluid used in the transformers does not contain PCBs. Additionally, the transformers appeared physically intact with no signs of fluid leakage.
- Groundwater in the subject property area is expected to be at a depth of approximately 40 feet bgs. General groundwater flow direction for the shallow aquifer in this area is generally to the south.
- There are additional known LUST and hazardous waste sites in the vicinity of the subject property. The sites are not expected to adversely impact the subject property.
- Solid waste generated at the subject property consists of typical office refuse and inert waste. The waste generated at the subject property is stored in waste containers positioned throughout various parcels. The waste containers are removed by various independent waste management companies for recycling and offsite disposal.

Based on the findings and conclusions presented in this report, EP Associates has identified the following recognized environmental conditions and historical recognized environmental conditions at the subject property.

- UST(s) associated with the former service station and the rubbish collection company located at 435 West Los Feliz Road (southeast portion of Parcel 2).
- UST(s) associated with the former service station located at 447-449 West Los Feliz Road (southwest portion of Parcel 2).
- A UST potentially located at 450 Fernando Court (northwest portion of Parcel 3).
- Oil stained areas at *Byron's Auto* and at a location of a compressor located south of Building 1.
- Westward migration of possible subsurface petroleum hydrocarbon contamination from the former service station at 433 West Los Feliz Road (currently improved with Gardena Avenue).

10.0 RECOMMENDATIONS

EP Associates recommends that subsurface soil sampling be conducted to assess the possible presence of petroleum hydrocarbons and other contaminants that might have been released during historical activities at the subject property and the former property east of Parcel 2 (existing Gardena Avenue). This primarily includes any release from the former USTs.

EP Associates additionally recommends the following:

- Search to locate any possible USTs that may still be present at the southeast and southwest portions of Parcel 2, and at the northwest portion of Parcel 3.
- Develop a contingency plan to manage USTs in the event they are encountered during the planned future construction activities.
- Properly remove and dispose of the chemical substances and hazardous wastes present at the subject property prior to any activity that would potentially cause their release.
- Conduct an asbestos survey to identify ACM in the building for removal prior to renovation or demolition activities.
- Identify and properly handle and dispose of possible PCB-containing fluorescent light ballasts, when necessary.
- Properly dispose of fluorescent light tubes, when necessary.

11.0 LIMITATIONS

The purpose of this Phase I Environmental Site Assessment was to reasonably evaluate, within the limited time allowed, the potential for, or actual impact of, past practices on the subject property. In performing this environmental assessment, it is understood that a reasonable balance between environmental issues must be achieved, as an exhaustive analysis of each conceivable issue of potential concern is not economically feasible. The environmental assessment contains professional opinions about environmental issues and additional actions, which may be addressed at the property. In rendering its professional opinion, EP Associates' services provided hereunder were performed within the limits described and are in conformance with generally accepted environmental consulting principles and practices. No warranty is expressed or implied.

REFERENCES

City of Glendale-Water Section, 1993. *Briefing Book, Superfund Activities, Glendale Area*, City of Glendale Public Service Department Water Section, Updated 1993.

DHS, 1990. *California Radon Survey Interim Results*, California Department of Health Services.

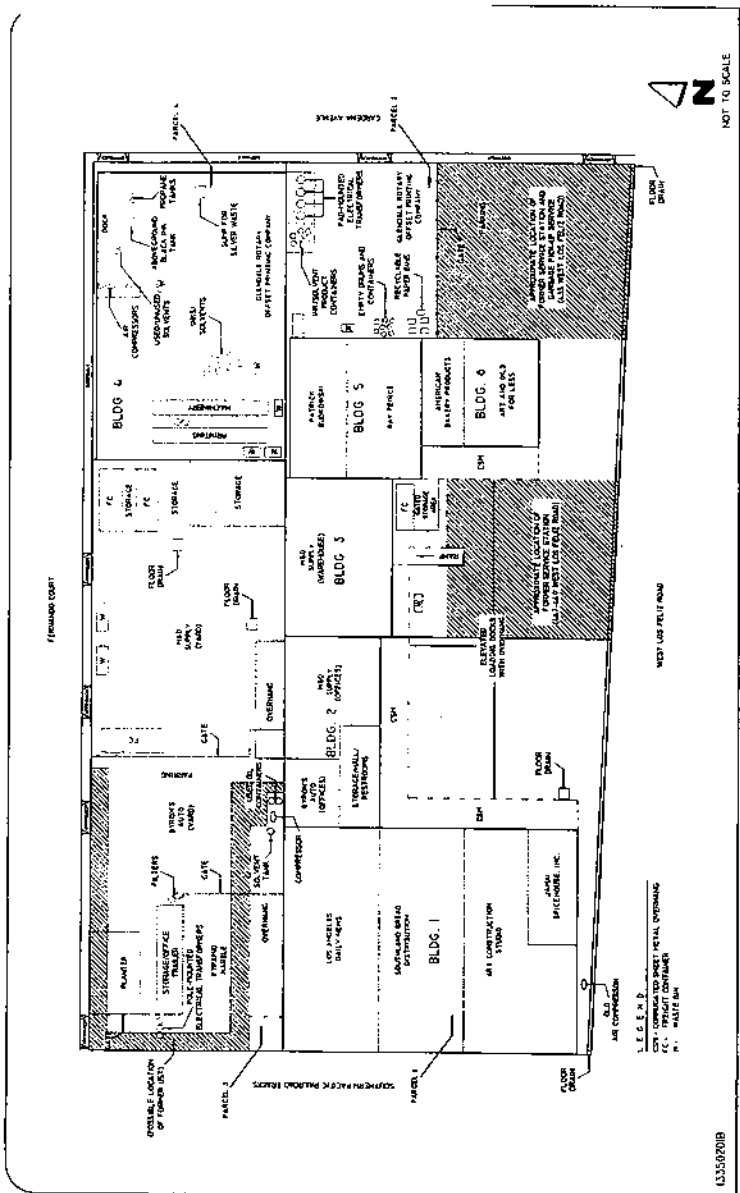
DWP, 1983. *Groundwater Quality Management Plan, San Fernando Valley Basin*. Prepared for Southern California Association of Governments, Department of Water and Power, July 1, 1983.

SECOR, 2000. *2000 Annual Groundwater Monitoring Report, Former Franciscan Ceramics Facility, 2901 Los Feliz Boulevard, Los Angeles, California*, SECOR International Incorporated, Project Nos. 014.07731.100 and 014.07732.100, November 1, 2000.

ULARA Watermaster, 2003. *Watermaster Service in the Upper Los Angeles River Area Los Angeles County, October 1, 2001-September 30, 2002* Upper Los Angeles River Area Watermaster, May 2003.

U.S. EPA, 1999. *San Fernando Valley Superfund Sites Update*, U.S. Environmental Protection Agency, Region 9, November 1999.

Figures




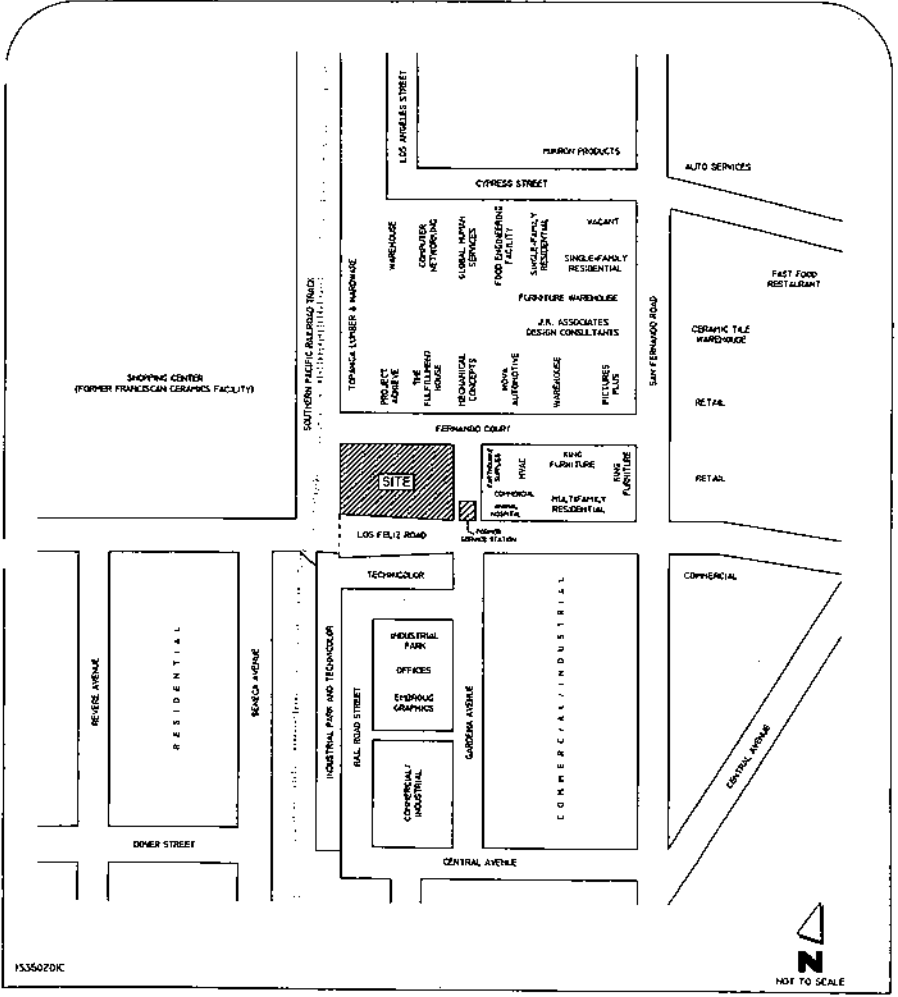
NOT TO SCALE

FIGURE 2

SITE PLAN
 605 WEST LOS FELIZ ROAD AND
 434-450 FERRANDO COURT
 GLENDALE, CALIFORNIA

PROJECT NO. 13350201
 DRAWN: ED
 DATE: 07/16/04
 APPROVED: VM
 REVISED:

EP ASSOCIATES
 111 NORTH BRAND BOULEVARD, SUITE 100
 GLENDALE, CALIFORNIA 91201-3423
 TEL: (626) 252-0071 FAX: (626) 252-0072

NOT TO SCALE

FIGURE 3

EP ASSOCIATES
 111 NORTH BRAND BOULEVARD, SUITE 100
 GLENDALE, CALIFORNIA 91201-3423
 TEL: (626) 252-0071 FAX: (626) 252-0072



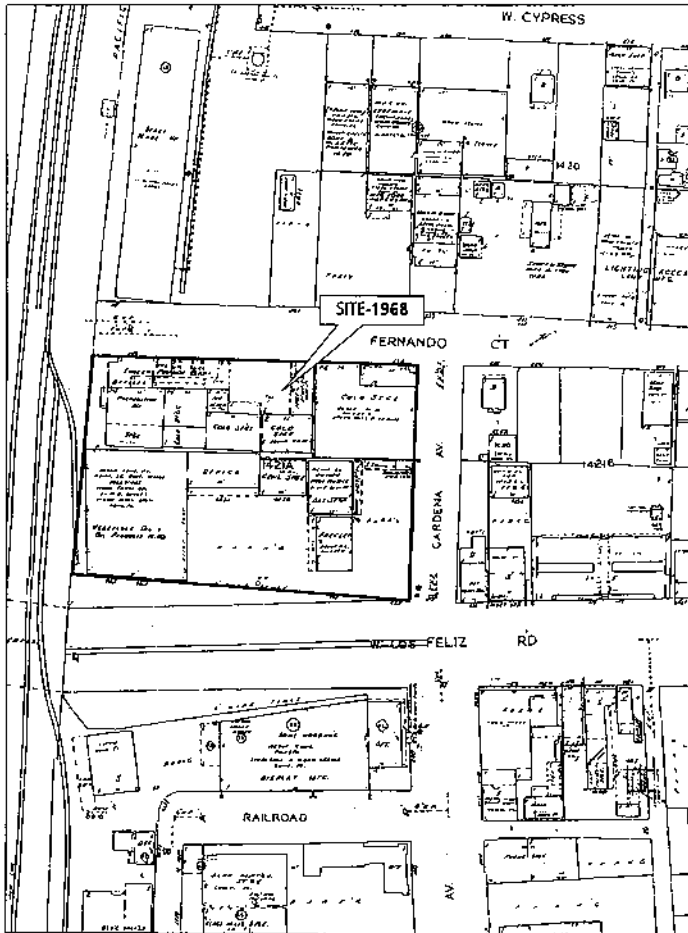
PROJECT NO. 13350201
 DRAWN: ED
 DATE: 07/16/04
 APPROVED: VM
 REVISED:

NEIGHBORING PROPERTIES
 605 WEST LOS FELIZ ROAD AND
 434-450 FERRANDO COURT
 GLENDALE, CALIFORNIA

CITY OF GLENDALE
FIRE DEPARTMENT

Fire Prevention Section
420 W. Harvard Street
Glendale, California 91204-1395
(818) 548-4810

Hazardous Materials Unit
Environmental Management Center
780 Flower Street
Glendale, California 91201-3057
(818) 548-4030



To: Glendale Loan Office Printing Co.
434 Fernando Ct. Glendale, Cal 91201 818-548-1847

Re: Henry Deal

On: 5/12/00 an inspection was made of the above referenced property.

Your attention is called to the following item(s) which must be corrected in order to meet the minimum requirements for all fire and life safety:

- ① Drums of waste ink and oil (2x24 x 45g Dr) were stored on-site beyond the stated accumulation date of 180 days. 22CCR 66262.34
- ② Hazardous waste drums were unlabeled. Label all hazardous drums on-site properly including: "Hazardous Waste", Business information accumulation date, and content description. 22CCR 66262.34
- ③ Provide secondary containment and protection from rainfall for hazardous waste drums stored outside facility. LFC 7902
- ④ Transfer contents from containers that are leaking, and clean up spilled hazardous waste from ground immediately. 22CCR 66265.171
- ⑤ Label Empty drums as "empty" and manage within 1 yr. 22CCR 66261.7
- ⑥ Provide proof of legal disposal for waste inks/oils. Signed manifest. 22CCR 66262.40.

Provide certification of Annual/Sync Sprinkler system.
LFC 100451

You are hereby notified to correct the condition(s) listed above. A reinspection will be made on or about 7/12/00. Failure to comply with this notice may result in a legal action being filed against you by the City Attorney.

Inspector: [Signature] Phone: (818) 548-4830 Telephone Hours: 7:30 - 8:30 a.m. and 4:30 - 5:30 p.m.

I have received a copy of this notice: [Signature] [Signature of Owner or Owner's Agent]

219-000-20 2770

Permit # W-3515

CITY OF GLENDALE
PERMIT SERVICES CENTER
633 East Broadway, Rm 101, Glendale, CA 91206-4390 Phone 548-3200
APPLICATION FOR INDUSTRIAL WASTE PERMIT

Business Name: Glendale Rotary Offset Printing Co., Inc.
Business Owner: Gerald R. Deal, Treasurer Phone: (818) 548-1847
434 Fernando Court Glendale, CA 91204
Mailing Address: P.O. Box 696 Glendale, CA 91209
Type of Industry: Printing SIC Code: 2752

Character of operation producing waste:
Film Processing machine
Types of chemicals, solvents, cleaning compounds, oils and other substances contained in liquid waste discharge:
Water and photographic chemicals

Approximate gallonage of waste liquids (1000) per (8) hour day.
Additional information: No previous permit
Provide a silver recovery unit to serve film processing machine.

Drivers License # N7860394

FEE: \$85.00 (Checks made payable to the CITY OF GLENDALE)

For further information, if necessary, call 548-4030.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Signature Required
1. Business Owner.
2. Corporate officer or designated employee with written authorization.
3. Managing partner.
Glendale Rotary Offset Printing
(Firm Name)
Gerald R. Deal
(Applicant's Signature)
Gerald R. Deal, Treasurer
(Type or print name and title)

Environmental Management Center
780 Flower Street
Glendale, CA 91201
(919) 548-4030
City of Glendale
Glendale Fire Department

Hazardous Materials Inventory
Facility: Glendale Rotary Offset Printing Co., Inc. Owner: same
Name: 434 Fernando Court Address: same
City/ZIP: Glendale, CA 91204 City/ZIP: same
Phone: (818) 548-1847 Phone: same
Standard Ind. Class Code: 2711 Dun & Bradstreet #: N/A

#1

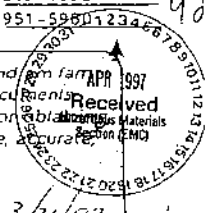
Product name: Reprodot Developer/Replenisher Transaction code: A
List largest components and percent by weight
1. Hydroquinone 5% Form: L Average amount: 15gal
2. Sodium Hydroxide 5% Trade secret: N Annual estimate: 450gal
3. Potassium Carbonate 7% Units: 5gal Type code: M
Days at site: 365 Container type: 13
Location: Use code: 13 Container pressure: 1
Max amount: 175gal Container temperature: 4
 Fire Pressure Reactivity Immediate health Delayed health

#2

Product name: Release Subtractive Developer Transaction code: A
List largest components and percent by weight
1. N/A 3% Form: L Average amount: 15gal
2. N/A 3% Trade secret: N Annual estimate: 130gal
3. N/A 2% Units: 5gal Type code: M
Days at site: 365 Container type: 13
Location: Use code: 13 Container pressure: 1
Max amount: 30gal Container temperature: 4
 Fire Pressure Reactivity Immediate health Delayed health

Primary Emergency Contact: Gerald L. Bir Phone: (818) 249-1092
Secondary Emergency Contact: Gerald R. Deal Phone: (818) 951-5980

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals responsible for the information, I believe that the submitted information is true, accurate, and complete.
Gerald R. Deal GERALD R. DEAL 3/31/97
Name and title of owner/operator OR representative Signature Date



Environmental Management Center

750 Flower Street
Glendale, CA 91201
(818) 545-4030

Continuation Form

Important: Please refer to the attached instructions for proper codes.

Product name: Century Rejuvenator		Transaction code: A	
List largest components and percent by weight		Form: L	Average amount: 2gal
1. Aromatic Hydrocarbon	30 %	Trade secret: N	Annual estimate: 8gal
2. 2-Butoxyethanol	20 %	Units: gal	Type code: M
3.	%	Days at site: 365	Container type: 11
Location:		Use code: 32	Container pressure: 1
		Max amount: 3gal	Container temperature: 4
<input checked="" type="checkbox"/> Fire <input type="checkbox"/> Pressure <input type="checkbox"/> Reactivity <input checked="" type="checkbox"/> Immediate health <input type="checkbox"/> Delayed health			

Product name: elite Film Cleaner		Transaction code: A	
List largest components and percent by weight		Form: L	Average amount: 1gal
1. Hexane	85 %	Trade secret: N	Annual estimate: 4gal
2. Isopropyl Alcohol	15 %	Units: gal	Type code: M
3.	%	Days at site: 365	Container type: 11
Location:		Use code: 8	Container pressure: 1
		Max amount: 3	Container temperature: 4
<input checked="" type="checkbox"/> Fire <input type="checkbox"/> Pressure <input type="checkbox"/> Reactivity <input checked="" type="checkbox"/> Immediate health <input type="checkbox"/> Delayed health			

Product name: Sierra Wash		Transaction code: A	
List largest components and percent by weight		Form: L	Average amount: 1gal
1. Aliphatic Hydrocarbon	80 %	Trade secret: N	Annual estimate: 175gal
2. Aromatic Hydrocarbon	13 %	Units: gal	Type code: M
3.	%	Days at site: 365	Container type: 06
Location:		Use code: 08	Container pressure: 1
		Max amount: 60gal	Container temperature: 4
<input checked="" type="checkbox"/> Fire <input type="checkbox"/> Pressure <input type="checkbox"/> Reactivity <input checked="" type="checkbox"/> Immediate health <input checked="" type="checkbox"/> Delayed health			

Product name: Arrowlith Low-Rub Premium		Transaction code: A	
List largest components and percent by weight		Form: L	Average amount: 250gal
1. Hydrocarbon Varnish	30 %	Trade secret: N	Annual estimate: 1100gal
2. Hydrocarbon Oil	52 %	Units: gal	Type code: M
3. Carbon Black	18 %	Days at site: 365	Container type: 02
Location: Outside NW corner		Use code: 13	Container pressure: 2
		Max amount: 600gal	Container temperature: 4
<input checked="" type="checkbox"/> Fire <input type="checkbox"/> Pressure <input type="checkbox"/> Reactivity <input type="checkbox"/> Immediate health <input checked="" type="checkbox"/> Delayed health			

Environmental Management Center

750 Flower Street
Glendale, CA 91201
(818) 545-4030

Continuation Form

Important: Please refer to the attached instructions for proper codes.

Product name: Arrowlith Soy Color Inks		Transaction code: A	
List largest components and percent by weight		Form: L	Average amount: 100gal
1. Soy Oil	30 %	Trade secret: N	Annual estimate: 650gal
2. Soy Varnish	52 %	Units: gal	Type code: M
3. Pigment	18 %	Days at site: 365	Container type: 06
Location:		Use code: 13	Container pressure: 1
		Max amount: 100gal	Container temperature: 4
<input checked="" type="checkbox"/> Fire <input type="checkbox"/> Pressure <input type="checkbox"/> Reactivity <input type="checkbox"/> Immediate health <input checked="" type="checkbox"/> Delayed health			

Product name: Fuller Adhesive 1533		Transaction code: A	
List largest components and percent by weight		Form: L	Average amount: 25gal
1. N/A	%	Trade secret: N	Annual estimate: 325gal
2.	%	Units: gal	Type code: M
3.	%	Days at site: 365	Container type: 06
Location:		Use code: 02	Container pressure: 1
		Max amount: 60gal	Container temperature: 4
<input type="checkbox"/> Fire <input type="checkbox"/> Pressure <input type="checkbox"/> Reactivity <input type="checkbox"/> Immediate health <input checked="" type="checkbox"/> Delayed health			

Product name: propane		Transaction code: A	
List largest components and percent by weight		Form: L	Average amount: 10gal
1. propane	80 %	Trade secret: N	Annual estimate: 310gal
2.	%	Units: gal	Type code: F
3.	%	Days at site: 365	Container type: 04
Location:		Use code: 19	Container pressure: 2
		Max amount: 15gal	Container temperature: 4
<input checked="" type="checkbox"/> Fire <input type="checkbox"/> Pressure <input type="checkbox"/> Reactivity <input checked="" type="checkbox"/> Immediate health <input type="checkbox"/> Delayed health			

Product name:		Transaction code:	
List largest components and percent by weight		Form:	Average amount:
1.	%	Trade secret:	Annual estimate:
2.	%	Units:	Type code:
3.	%	Days at site:	Container type:
Location:		Use code:	Container pressure:
		Max amount:	Container temperature:
<input type="checkbox"/> Fire <input type="checkbox"/> Pressure <input type="checkbox"/> Reactivity <input type="checkbox"/> Immediate health <input type="checkbox"/> Delayed health			

Owner: National Ice Co Address of job: 456 Fernanda Ct.
 Purpose of Bldg: Gas Pump Fire Dist. No. _____

BUILDING		PLUMBING		WIRING	
Date Issued: <u>4-2-74</u>	Date issued: _____	Date issued: _____	Out: _____	Permit No. _____	Sw: _____
Permit No. <u>1106A</u>	Amnt. <u>300</u>	Permit No. _____	Amnt. _____	Permit No. _____	Fix: _____
Contractor: <u>Louis Hill Pierce</u>	Contractor _____	Contractor _____	Contractor _____	Contractor _____	Contractor _____

	Ready for Inspection	Inspection O.K.		Ready for Inspection	Inspection O.K.		Ready for Inspection	Inspection O.K.
Foundation	<u>4/2/74</u>	<u>June</u>	Rough			Rough		
1st Floor			Gas			Finish		
2d, 3d Floor			Sewer			Fixtures		
Chimney			Cesspool			Motors		
			Finish					

Temporary Wiring	Ready for Inspection	Inspection O.K.	PLUMBING		WIRING	
Rough			Date issued: _____	Date issued: _____	Out: _____	
Finish			Cesspool Permit No. _____	Permit No. _____	Sw: _____	
Fixtures			Contractor _____	Contractor _____	Fix: _____	
Motors						

JOB ADDRESS
456 Fernanda Ct.
 NUMBER _____ STREET _____

APPLICATION FOR A
BUILDING PERMIT
 BUILDING SECTION, PUBLIC WORKS DIVISION
 CITY OF GLENDALE, CALIFORNIA

CONTRACTOR: General Builders Home CITY LIC. NO. 13601
 MAILING ADDRESS: 208 So Colondale TEL. NO. 362-4377
 ARCH. STATE LIC. NO. _____
 ENGR. TEL. NO. _____
 OWNER: Higgs Const Co TEL. NO. 627-1214
 MAILING ADDRESS: 400 Wilshire Blvd
 CONSTRUCTION LENGTH & BRANCH: _____
 MAILING ADDRESS: NONE

DESCRIPTION OF WORK
 NEW ADDN ALTER REPAIR DEMOLISH
 FLOOR AREA INCR. OR DECR. (SQ. FT.) _____ NO. OF STORIES 2 NO. OF DWELLING UNITS None

PRESENT BLDG. USE: Commercial PROPOSED BLDG. USE: Demolish
 DESCRIBE WORK TO BE DONE: Demolish + Remove Bldgs Clear Property
 LOT WIDTH _____ LOT DEPTH _____ NO. OF EXISTING BLDGS. ON LOT 1

VALUATION NOTE: Include Labor, Mat., Wiring, Plumb., Heat, Etc. \$3000.00

MAP NO. 5040 PARCEL 23 SEC. 34
 LOT NO. 11 BLOCK NO. 1 TRACT 1000000
 USE ZONE NO FIRE ZONE 2 OCCUPANCY F-2 TYPE OF CONSTR. DEM

CITY ENGINEER Approval & Information by Others
 EASEMENT _____ SEWER _____
 DIST. FACE OF CURB TO P.L. _____ FT. YES NO GRADING _____

PUBLIC SERVICE PLANNING
 WATER _____ ELECTRIC _____
 P.C. FEE _____ PERM. PLAN CHECKER'S APPROVAL _____
 PERMIT FEE 26.40 WITHOUT PLAN 1111

I have carefully read and examined the above application and find the same to be true and correct. All provisions of the laws and Ordinances governing building construction will be complied with whether specified herein or not. I agree not to accept or allow occupancy of any building authorized by this permit until final building inspection has been received. I certify that in the performance of the work for which this permit is issued I shall not employ any person in any manner to be subject to the workmen's compensation laws of California.
Walter Taylor
 SIGNATURE OF OWNER OR CONTRACTOR

CK. CASH, M.O. PLAN CHECK VALIDATION
 OK WWT 4/15/74
 CK. CASH, M.O. NOTE: WHEN PROPERTY VALIDATED IN THIS SPACE, THIS PERMIT CONSTITUTES A BUILDING PERMIT TO DO THE WORK, PRESCRIBED HEREIN.
 21120 13 101

JOB ADDRESS
445 LOS FELIZ STREET

APPLICATION FOR A BUILDING PERMIT
CITY OF GLENDALE, CALIFORNIA

APPLICANT: **AMERICAN BAKERY PRODUCTS**
ADDRESS: **445 LOS FELIZ STREET, GLENDALE, CA 91204**

OWNER: **AMERICAN BAKERY PRODUCTS**
ADDRESS: **445 LOS FELIZ STREET, GLENDALE, CA 91204**

DESIGNER: **ALDO COZZARELLI**
ADDRESS: **1503 S. BROADWAY, CITY OF GLENDALE, CA 91204**

CONTRACTOR: **ALDO COZZARELLI**
ADDRESS: **1503 S. BROADWAY, CITY OF GLENDALE, CA 91204**

DESCRIPTION OF WORK: **REPAIR OF EXISTING BAKERY**

VALUATION: **11-26-65**

WORKERS COMPENSATION EXPIRE DATE: **11-26-65**

PERMIT FEE: **\$4000**

PLANNING: **ALDO**

JOB ADDRESS
445 LOS FELIZ STREET

APPLICATION FOR A BUILDING PERMIT
CITY OF GLENDALE, CALIFORNIA

APPLICANT: **AMERICAN BAKERY PRODUCTS**
ADDRESS: **445 LOS FELIZ STREET, GLENDALE, CA 91204**

OWNER: **AMERICAN BAKERY PRODUCTS**
ADDRESS: **445 LOS FELIZ STREET, GLENDALE, CA 91204**

DESIGNER: **ALDO COZZARELLI**
ADDRESS: **1503 S. BROADWAY, CITY OF GLENDALE, CA 91204**

CONTRACTOR: **AMERICAN BAKERY PRODUCTS**
ADDRESS: **445 LOS FELIZ STREET, GLENDALE, CA 91204**

DESCRIPTION OF WORK: **REPAIR OF EXISTING BAKERY**

VALUATION: **11-26-65**

WORKERS COMPENSATION EXPIRE DATE: **11-26-65**

PERMIT FEE: **\$4000**

PLANNING: **ALDO**

CITY OF GLENDALE - ZBG No. **000 222005**

APPLICATION FOR ZONING USE CERTIFICATE

Submit to Planning Services Center - 633 E. Broadway, Rm. 101, Glendale, CA 91204 - (818) 544-3200

Instructions: Please answer the following questions as completely and legibly as possible. Please draw a zoning plan on the back of this application if the use is for a restaurant, delicatessen, church, or place of worship.

1. Address: **445 West Los Feliz Road, Unit B, Glendale, California 91204**

2. Business Name: **American Bakery Products**

3. Describe in detail the business activities: **Storage facility for bread. Bread is stored in the warehouse for one day at a time, and gets shipped out every day.**

4. Applicant's Title: Owner President Doctor Other

Business Owner's Name: **Jerry Ksadehlyan**

Mailing Address (if different from business address): **13134 Archwood Street, North Hollywood, CA 91606**

Phone No.: **(818) 506-6464** Alt. Phone No.: **(818) 652-6520**

Property Owner's Name: **John Lewis**

Address: **P.O. Box 717, Imperial Beach, CA 91931** Phone No.: **611-52-66-33-31-22**

6. Existing Building Use: Warehouse Retail Medical Office Manufacturing Wholesale/Distribution Other

7. Proposed Building Use: Warehouse Retail Medical Office Manufacturing Wholesale/Distribution Other

8. Please fill in the following:
 Floor Area for Occupancy: **650 sq. ft.** New Business: Yes No
 No. of Employees: **1** Full-Time Employees in Glendale: Yes No
 No. of Seats For Patrons: **0** Outdoor Seating (M/Alc-Only): Yes No
 Alcoholic Beverage Sales: Yes No

9. Are you relocating? Yes No Existing Proposed

I DECLARE UNDER PENALTY OF PERJURY THAT THE INFORMATION PROVIDED HEREIN IS TRUE AND CORRECT. I FURTHER ACKNOWLEDGE THE VALIDITY OF THIS CERTIFICATE DOES NOT RELIEVE ME FROM LEGAL OBLIGATION TO OBTAIN AND ALL NECESSARY PERMITS UNDER APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS AND TO BE SUBJECT TO THE CITY AND/OR STATE BUSINESS OWNERS' SIGNATURES AND TO THE CITY OF GLENDALE ZONING ORDINANCES.

FOR STAFF USE ONLY (DO NOT WRITE BELOW THIS LINE)

Approved By: **Chris Magallon** Recorder No. **1252** Coming Designing **1/2** Staff Comments, Conditions, Restrictions: **Warehouse**

Inspection Required: **Yes** (Proposed) **1/15/66**

Staff Comment: **Inspection required to verify floor area: proposed 650 sqft., v. 611 sqft for 2A shows 5,000 sqft. cs**

FORM 679

Date August 16, 1975

Certificate No. 192

CERTIFICATE OF USE AND OCCUPANCY

FOR EXISTING LEGAL STRUCTURE OR BUILDING

CITY OF GLENDALE

Name Leslie Salt, Inc. d.b.a. Leslie Foods
Use & Occupancy Address 465 West Los Feliz
Use mfg. salad dressing Occupancy Group F-2

THIS CERTIFIES THAT SO FAR AS ASCERTAINED BY OR MADE KNOWN TO THE BELOW NAMED PARTIES, THE BUILDING AT THE ABOVE ADDRESS IS A LEGALLY EXISTING BUILDING AND IT HAS BEEN DETERMINED THAT THE CHANGE OF USE OR OCCUPANCY OR BOTH TO THE ABOVE NAMED USE OCCUPANCY AND OWNER OR TENANT WILL NOT RESULT IN ANY INCREASED HAZARD TO LIFE OR LIMB, HEALTH, PROPERTY OR PUBLIC WELFARE AND SUCH USE AND OCCUPANCY COMPLIES WITH THE ZONING APPENDIX OF THE GLENDALE MUNICIPAL CODE.

Alexander C. Pyper
Superintendent of Buildings

John McKenna
Zoning Administrator

ORDINANCE NO. 4886 REQUIRES THAT THIS CERTIFICATE BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES AND SHALL NOT BE REMOVED EXCEPT BY THE SUPERINTENDENT OF BUILDINGS.

FORM 679

Date 2-18-1986

Certificate No. 1421

CERTIFICATE OF USE AND OCCUPANCY

FOR EXISTING LEGAL STRUCTURE OR BUILDING

CITY OF GLENDALE

Name Ileana Arias Owner DHA Charlie's Ice Cream Co.
Use & Occupancy Address 465 W. Los Feliz St.
Use Office Occupancy Group 1B

THIS CERTIFIES THAT SO FAR AS ASCERTAINED BY OR MADE KNOWN TO THE BELOW NAMED PARTIES, THE BUILDING AT THE ABOVE ADDRESS IS A LEGALLY EXISTING BUILDING AND IT HAS BEEN DETERMINED THAT THE CHANGE OF USE OR OCCUPANCY OR BOTH TO THE ABOVE NAMED USE OCCUPANCY AND OWNER OR TENANT WILL NOT RESULT IN ANY INCREASED HAZARD TO LIFE OR LIMB, HEALTH, PROPERTY OR PUBLIC WELFARE AND SUCH USE AND OCCUPANCY COMPLIES WITH THE ZONING APPENDIX OF THE GLENDALE MUNICIPAL CODE.

Superintendent of Buildings

Zoning Administrator

ORDINANCE NO. 4821 REQUIRES THAT THIS CERTIFICATE BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES AND SHALL NOT BE REMOVED EXCEPT BY THE SUPERINTENDENT OF BUILDINGS.

FORM 679

Date June 11, 1979

Certificate No. 24

CERTIFICATE OF USE AND OCCUPANCY

FOR EXISTING LEGAL STRUCTURE OR BUILDING

CITY OF GLENDALE

Name Lawrence L. Barnes, Plant Manager - MILSEY FOODS, INC.
Use & Occupancy Address 465 N. Los Feliz Rd. Glendale 91104
Use Food-Mfg. Plants Occupancy Group F-2

THIS CERTIFIES THAT SO FAR AS ASCERTAINED BY OR MADE KNOWN TO THE BELOW NAMED PARTIES, THE BUILDING AT THE ABOVE ADDRESS IS A LEGALLY EXISTING BUILDING AND IT HAS BEEN DETERMINED THAT THE CHANGE OF USE OR OCCUPANCY OR BOTH TO THE ABOVE NAMED USE OCCUPANCY AND OWNER OR TENANT WILL NOT RESULT IN ANY INCREASED HAZARD TO LIFE OR LIMB, HEALTH, PROPERTY OR PUBLIC WELFARE AND SUCH USE AND OCCUPANCY COMPLIES WITH THE ZONING APPENDIX OF THE GLENDALE MUNICIPAL CODE.

Alexander C. Pyper, S.E.
Superintendent of Buildings

John W. McKenna
Zoning Administrator

ORDINANCE NO. 4821 REQUIRES THAT THIS CERTIFICATE BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES AND SHALL NOT BE REMOVED EXCEPT BY THE SUPERINTENDENT OF BUILDINGS.

465 W. Los Feliz

FORM 679

Date 10-23-1985

Certificate No. 192

CERTIFICATE OF USE AND OCCUPANCY

FOR EXISTING LEGAL STRUCTURE OR BUILDING

CITY OF GLENDALE

Name Dong S. Han (Owner) (aka) Han's Food Company CO.
Use & Occupancy Address 465 W. Los Feliz
Use Retail Occupancy Group R-1

THIS CERTIFIES THAT SO FAR AS ASCERTAINED BY OR MADE KNOWN TO THE BELOW NAMED PARTIES, THE BUILDING AT THE ABOVE ADDRESS IS A LEGALLY EXISTING BUILDING AND IT HAS BEEN DETERMINED THAT THE CHANGE OF USE OR OCCUPANCY OR BOTH TO THE ABOVE NAMED USE OCCUPANCY AND OWNER OR TENANT WILL NOT RESULT IN ANY INCREASED HAZARD TO LIFE OR LIMB, HEALTH, PROPERTY OR PUBLIC WELFARE AND SUCH USE AND OCCUPANCY COMPLIES WITH THE ZONING APPENDIX OF THE GLENDALE MUNICIPAL CODE.

Superintendent of Buildings

Zoning Administrator

ORDINANCE NO. 4821 REQUIRES THAT THIS CERTIFICATE BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES AND SHALL NOT BE REMOVED EXCEPT BY THE SUPERINTENDENT OF BUILDINGS.

FORM 679

Date 1-27-1986

Certificate No. 192

CERTIFICATE OF USE AND OCCUPANCY

FOR EXISTING LEGAL STRUCTURE OR BUILDING

CITY OF GLENDALE

Name Valentin Kalinowski (aka) V. V. V. Electric
Use & Occupancy Address 465 W. Los Feliz
Use Repair electrical equipment Occupancy Group R-1

THIS CERTIFIES THAT SO FAR AS ASCERTAINED BY OR MADE KNOWN TO THE BELOW NAMED PARTIES, THE BUILDING AT THE ABOVE ADDRESS IS A LEGALLY EXISTING BUILDING AND IT HAS BEEN DETERMINED THAT THE CHANGE OF USE OR OCCUPANCY OR BOTH TO THE ABOVE NAMED USE OCCUPANCY AND OWNER OR TENANT WILL NOT RESULT IN ANY INCREASED HAZARD TO LIFE OR LIMB, HEALTH, PROPERTY OR PUBLIC WELFARE AND SUCH USE AND OCCUPANCY COMPLIES WITH THE ZONING APPENDIX OF THE GLENDALE MUNICIPAL CODE.

Superintendent of Buildings

Zoning Administrator

ORDINANCE NO. 4821 REQUIRES THAT THIS CERTIFICATE BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES AND SHALL NOT BE REMOVED EXCEPT BY THE SUPERINTENDENT OF BUILDINGS.

FORM 679-B7 (Rev 6/86)

Date

Certificate No.

CERTIFICATE OF USE AND OCCUPANCY

FOR EXISTING LEGAL STRUCTURE OR BUILDING

CITY OF GLENDALE

Name John C. Pyper
Use & Occupancy Address 465 W. Los Feliz
Use Office Occupancy Group 1B

THIS CERTIFIES THAT SO FAR AS ASCERTAINED BY OR MADE KNOWN TO THE BELOW NAMED PARTIES, THE BUILDING AT THE ABOVE ADDRESS IS A LEGALLY EXISTING BUILDING AND IT HAS BEEN DETERMINED THAT THE CHANGE OF USE OR OCCUPANCY OR BOTH TO THE ABOVE NAMED USE OCCUPANCY AND OWNER OR TENANT WILL NOT RESULT IN ANY INCREASED HAZARD TO LIFE OR LIMB, HEALTH, PROPERTY OR PUBLIC WELFARE AND SUCH USE AND OCCUPANCY COMPLIES WITH THE ZONING APPENDIX OF THE GLENDALE MUNICIPAL CODE.

Alexander C. Pyper

John C. McKenna
Zoning Administrator

ORDINANCE NO. 4821 REQUIRES THAT THIS CERTIFICATE BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES AND SHALL NOT BE REMOVED EXCEPT BY THE SUPERINTENDENT OF BUILDINGS.

Date: May 8, 1985

Certificate No. 1115

CERTIFICATE OF USE AND OCCUPANCY
FOR EXISTING LEGAL STRUCTURE OR BUILDING
CITY OF GLENDALE

Name: Markus Meyer - President - MEYER AND SON FREIGHT SYSTEMS
Use & Occupancy Address: 465 W. Los Feliz Blvd. Unit E
Use: Warehouse Occupancy Group: W-2

THIS CERTIFIES THAT SO FAR AS ASCERTAINED BY OR MADE KNOWN TO THE BELOW NAMED PARTIES, THE BUILDING AT THE ABOVE ADDRESS IS A LEGALLY EXISTING BUILDING AND IT HAS BEEN DETERMINED THAT THE CHANGE OF USE OR OCCUPANCY OR BOTH TO THE ABOVE NAMED USE OCCUPANCY AND OWNER OR TENANT WILL NOT RESULT IN ANY INCREASED HAZARD TO LIFE OR LIMB, HEALTH, PROPERTY OR PUBLIC WELFARE AND SUCH USE AND OCCUPANCY COMPLIES WITH THE ZONING APPENDIX OF THE GLENDALE MUNICIPAL CODE.

Alexander C. Pyper, S.E. John McKenna
Superintendent of Buildings Zoning Administrator

ORDINANCE NO. 4828 REQUIRES THAT THIS CERTIFICATE BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES AND SHALL NOT BE REMOVED EXCEPT BY THE SUPERINTENDENT OF BUILDINGS.

Date: August 10, 1985

Certificate No. 1116

CERTIFICATE OF USE AND OCCUPANCY
FOR EXISTING LEGAL STRUCTURE OR BUILDING
CITY OF GLENDALE

Name: L.R. GORDON - Fabry Supply, Inc.
Use & Occupancy Address: 465 W. Los Feliz Blvd.
Use: Storage of Fabry Supply, Inc. 2111 sq. ft. Occupancy Group: B2

THIS CERTIFIES THAT SO FAR AS ASCERTAINED BY OR MADE KNOWN TO THE BELOW NAMED PARTIES, THE BUILDING AT THE ABOVE ADDRESS IS A LEGALLY EXISTING BUILDING AND IT HAS BEEN DETERMINED THAT THE CHANGE OF USE OR OCCUPANCY OR BOTH TO THE ABOVE NAMED USE OCCUPANCY AND OWNER OR TENANT WILL NOT RESULT IN ANY INCREASED HAZARD TO LIFE OR LIMB, HEALTH, PROPERTY OR PUBLIC WELFARE AND SUCH USE AND OCCUPANCY COMPLIES WITH THE ZONING APPENDIX OF THE GLENDALE MUNICIPAL CODE.

Alexander C. Pyper, S.E. John McKenna
Superintendent of Buildings Zoning Administrator

ORDINANCE NO. 4828 REQUIRES THAT THIS CERTIFICATE BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES AND SHALL NOT BE REMOVED EXCEPT BY THE SUPERINTENDENT OF BUILDINGS.

Date: July 29, 1985

Certificate No. 1116

CERTIFICATE OF USE AND OCCUPANCY
FOR EXISTING LEGAL STRUCTURE OR BUILDING
CITY OF GLENDALE

Name: TETRACOLOR
Use & Occupancy Address: 465 W. Los Feliz Rd. Unit D
Use: Office stripping film 2000 sq. ft. Occupancy Group: B2

THIS CERTIFIES THAT SO FAR AS ASCERTAINED BY OR MADE KNOWN TO THE BELOW NAMED PARTIES, THE BUILDING AT THE ABOVE ADDRESS IS A LEGALLY EXISTING BUILDING AND IT HAS BEEN DETERMINED THAT THE CHANGE OF USE OR OCCUPANCY OR BOTH TO THE ABOVE NAMED USE OCCUPANCY AND OWNER OR TENANT WILL NOT RESULT IN ANY INCREASED HAZARD TO LIFE OR LIMB, HEALTH, PROPERTY OR PUBLIC WELFARE AND SUCH USE AND OCCUPANCY COMPLIES WITH THE ZONING APPENDIX OF THE GLENDALE MUNICIPAL CODE.

Alexander C. Pyper, S.E. John McKenna
Superintendent of Buildings Zoning Administrator

ORDINANCE NO. 4828 REQUIRES THAT THIS CERTIFICATE BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES AND SHALL NOT BE REMOVED EXCEPT BY THE SUPERINTENDENT OF BUILDINGS.

Date: 10-20-1985

Certificate No. 6909

CERTIFICATE OF USE AND OCCUPANCY
FOR EXISTING LEGAL STRUCTURE OR BUILDING
CITY OF GLENDALE

Name: Chofs Select
Use & Occupancy Address: 465 W. Los Feliz
Use: Photo baking 8,000 sq. ft. Occupancy Group: B-2

THIS CERTIFIES THAT SO FAR AS ASCERTAINED BY OR MADE KNOWN TO THE BELOW NAMED PARTIES, THE BUILDING AT THE ABOVE ADDRESS IS A LEGALLY EXISTING BUILDING AND IT HAS BEEN DETERMINED THAT THE CHANGE OF USE OR OCCUPANCY OR BOTH TO THE ABOVE NAMED USE OCCUPANCY AND OWNER OR TENANT WILL NOT RESULT IN ANY INCREASED HAZARD TO LIFE OR LIMB, HEALTH, PROPERTY OR PUBLIC WELFARE AND SUCH USE AND OCCUPANCY COMPLIES WITH THE ZONING APPENDIX OF THE GLENDALE MUNICIPAL CODE.

Superintendent of Buildings Zoning Administrator

ORDINANCE NO. 4828 REQUIRES THAT THIS CERTIFICATE BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES AND SHALL NOT BE REMOVED EXCEPT BY THE SUPERINTENDENT OF BUILDINGS.

Date:

Certificate No. 1123

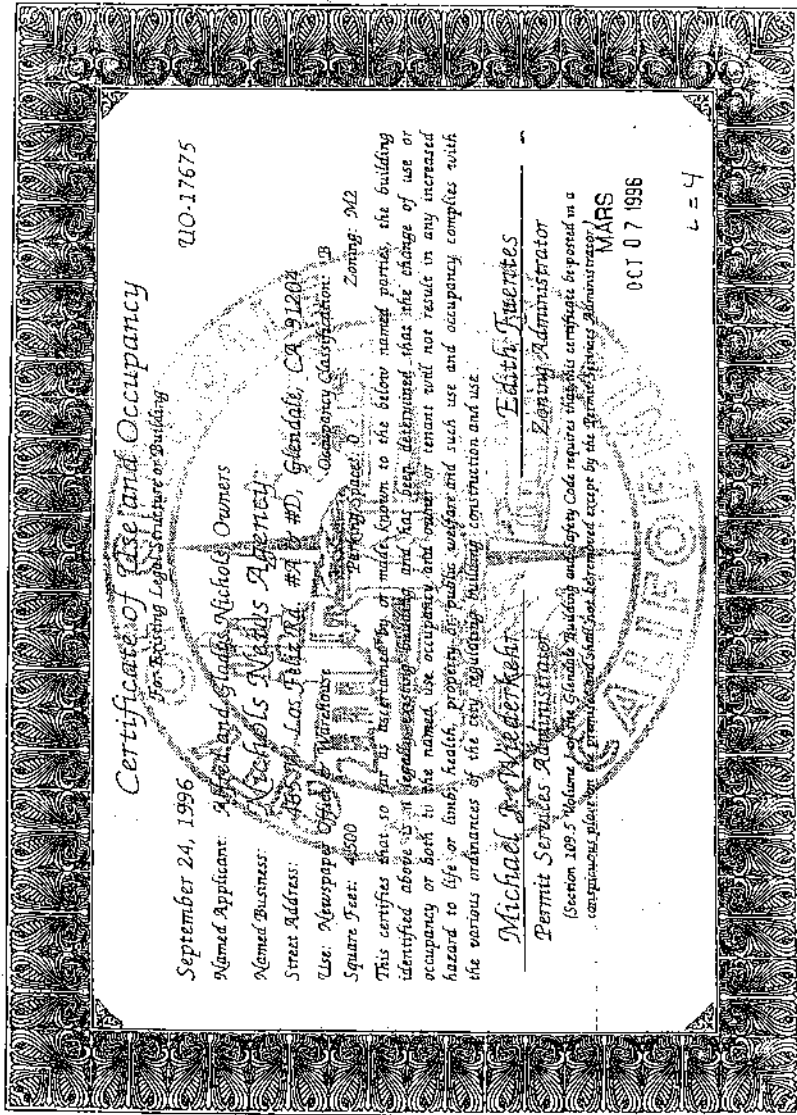
CERTIFICATE OF USE AND OCCUPANCY
FOR EXISTING LEGAL STRUCTURE OR BUILDING
CITY OF GLENDALE

Name: Gregory Pendergast
Use & Occupancy Address: 465 W. Los Feliz
Use: sq. ft. Occupancy Group:

THIS CERTIFIES THAT SO FAR AS ASCERTAINED BY OR MADE KNOWN TO THE BELOW NAMED PARTIES, THE BUILDING AT THE ABOVE ADDRESS IS A LEGALLY EXISTING BUILDING AND IT HAS BEEN DETERMINED THAT THE CHANGE OF USE OR OCCUPANCY OR BOTH TO THE ABOVE NAMED USE OCCUPANCY AND OWNER OR TENANT WILL NOT RESULT IN ANY INCREASED HAZARD TO LIFE OR LIMB, HEALTH, PROPERTY OR PUBLIC WELFARE AND SUCH USE AND OCCUPANCY COMPLIES WITH THE ZONING APPENDIX OF THE GLENDALE MUNICIPAL CODE.

Alexander C. Pyper John C. McKenna
Superintendent of Buildings Zoning Administrator

ORDINANCE NO. 4828 REQUIRES THAT THIS CERTIFICATE BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES AND SHALL NOT BE REMOVED EXCEPT BY THE SUPERINTENDENT OF BUILDINGS.



Certificate of Use and Occupancy
For Existing Legal Structure or Building

September 24, 1996
 Named Applicant: Robert Nicholas Nichols Owners
 Named Business: Nichols News Agency
 Street Address: 465 W Los Feliz Rd #A & #D, Glendale, CA 91204
 Use: Newspaper Office & Warehouse
 Square Feet: 4500
 Zoning: M2
 Occupancy Classification: B
 Permit Space: 0

This certifies that so far as is determined by or under the authority of the City of Glendale, California, the building identified above is in compliance with all applicable laws and regulations, and has been determined that the change of use or occupancy or both in the named use, occupancy and owner or tenant will not result in any increased hazard to life or limb, health, property or public welfare and such use and occupancy complies with the various ordinances of the City of Glendale, California, construction and use.

Michael P. Weerkeert
 Permit Services Administrator
 (Section 109.5 Welfare for the Glendale Building and Safety Code requires that this certificate be posted in a conspicuous place on the premises and shall not be removed except by the Permit Services Administrator.)
Edith Juenteles
 Zoning Administrator

OCT 07 1996
 L-4

CITY OF GLENDALE PZUC No. 20020644

APPLICATION FOR ZONING USE CERTIFICATE

Submit to Permit Services Center • 633 E. Broadway, Rm. 101, Glendale, CA 91206 818-548-3200

(Instructions: Please answer the following questions as completely and legibly as possible. Please draw a seating plan on the back of this application if the use is for a restaurant, delicatessen, church, classroom, or theatre.)

- Business Address (Include Suite No., City and Zip Code):
465 W Los Feliz Rd. Unit C Glendale Ca 91204
- Business Name: M.G. Supply
- Describe in detail the business activities: warehouse / plumber supply
- Applicant's Title? Owner President Doctor Other
Business Owner's Name: Robert W. Olson
Mailing Address (If different from business address): 4300 Gardena Av. Glendale Ca 91204
Phone No: 818-956-0288 Alt. Phone No: _____
- Property Owner's Name: Glendale Rotary Prvrs #119
Address: 437 Fernando Ct Glendale, CA Phone No: 549-1947
- Existing Building Use: Gen. Office Retail Medical Office Manufacturing Wholesale/Distribution
 Warehouse Eating Establishment Other
- Proposed Building Use: Gen. Office Retail Medical Office Manufacturing Wholesale/Distribution
 Warehouse Eating Establishment Other
- Please fill in the following:
Floor Area for Occupancy: 2,000 sq ft New Business: Yes No
No. Of Employees: 2 First Time Business in Glendale: Yes No
No. Of Seats For Patrons: 0 Outdoor Seating (M1/M2 Only): Yes No
Business Owner's Signature: John Lewis ID/Driver's Lic. No: MD907764 Date: 11-21-96
Are you subleasing? Yes No If Yes To Alcoholic Beverage Sales: Existing Proposed

(I DECLARE UNDER PENALTY OF PERJURY, THAT THE INFORMATION PROVIDED HEREIN IS TRUE AND CORRECT. I FURTHER ACKNOWLEDGE THE ISSUANCE OF THIS CERTIFICATE DOES NOT RELIEVE ME FROM LEGAL OBLIGATION TO OBTAIN ANY AND ALL NECESSARY PERMITS AND/OR COMPLYING WITH OTHER APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS AS MAY APPLY TO THE USE AND/OR BUSINESS.)

Signature of this individual must be verified by personal identification. Any person signing this permit application as agent for the business owner shall have an original letter of authorization at the time of application. If a new Zoning Use Certificate has not been obtained within six months after the application fee is paid, a new application and respective fees shall be collected. Upon written request from the applicant, the Zoning Administrator may extend the period of the certificate application.

FOR STAFF USE ONLY (DO NOT WRITE BELOW THIS LINE)

Accepted By: <u>JD</u>	Date: <u>11/21/96</u>	Receipt No: <u>125</u>	Fee: <u>M2</u>	Zoning Designation: <u>M2</u>	SIC (Proposed): <u>1343</u>	Section Sheet: <u>3</u>
Staff Comments, Conditions, Restrictions: <u>Any alterations to the building require a permit. JDH</u>						
Specify Type of Eating Establishment: _____						
OR to Submit by: _____				Inspection Required: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Delivery Letter: _____				Request for Service: _____		
Denial Letter: _____				OK to Issue By: _____		

CITIZEN ARCHITECTURAL PA 1/2001

465 W. LOS FELIZ #A

9/20/08

CA 10/25/06

8/15/06

11/2/06

APPLICATION FOR CERTIFICATE OF USE AND OCCUPANCY



City of Glendale
Permit Services Center

MSB Room 101 633 E. Broadway at Glendale Avenue (818) 548-3200

Certificate No.
UO-17553

Accepted by: C.P. (u)
Receipt No. 58098023

Please read instructions on the back before completing this form.
Please type or print legibly in ink. Complete all numbered boxes.

1 Street Address of New Business: 465 W. LOS FELIZ RD. Unit Number: H (41204) Date: 4/22/06

Name of Business: MR. POTATO, INC. Business Phone: (818) 244-2288

Name of Applicant (Owner of Business or Corp. Officer): FRED CASTRO Title: PRESIDENT Emergency Phone: (909) 245-2892

Street Address of Applicant: P.O. BOX 250088 City: Glendale, CA Zip Code: 91205-0088

Owner of Building: Glendale Botany Mailing Address of Owner: P.O. BOX 196 GLENDALE CA 91205-0196

2 Proposed Building Use: MANUFACTURING 3 Previous Building Use: IND. USE 4 Floor Area Devoted To Such Use (Sq. Ft.): 10,000 SQ. FT.

5 Please describe all of the business activity which you intend to conduct on this property (please attach additional sheet if necessary):
PROCESS FROZEN POTATOES

6 Number of off-street parking spaces: 20 7 Maximum number of EMPLOYEES expected to be on the premises at any given time: 10 8 Maximum number of OTHER PERSONS expected to be on the premises at any given time: 12

9 Will seating be provided on the premises for patrons? No Yes
If yes, number of seats to be provided: _____

10 Any outside storage: No Yes

11 Proposed Occupancy Code: COVENANT
Earliest date when address for inspection will be available: _____

12 Estimated cost of any proposed modification: 0

13 Will hazardous materials be used, stored, handled or generated on the premises? No Yes
If yes, please complete a hazardous materials disclosure permit application and return it with this application.

14 If any of the following specific equipment or material is required for the proposed use, please indicate size, type or quantity:
welds _____ electrical systems _____ 4x8x3 _____ equipment requiring cooling water _____
excavator _____ removable _____ plastic tarp _____ wind shields _____ heavy duct _____
spray painting _____ miscellaneous _____

15 I declare under penalty of perjury that the foregoing is true and correct. Executed on 4/22 at Glendale California.
Driver's License No.: 80222155
Signature of Applicant: Fred Castro

INFORMATION TO BE PROVIDED BY THE BUILDING SECTION

Who, applicable, has the applicant been informed of the requirements of the Redevelopment Agency? No Yes

Does this use require a permit from the City Manager? No Yes

Inspector: BAK Fee: \$117.25 Fee Code: 3 W.C. # 58098023

Use Code: M2 Fee Code: 2 Proposed occupancy: B2 Proposed occupancy: F1

INVESTIGATOR'S REPORT: SUBJECT TO PL

Building Inspection: OK
Zoning: OK
Fire: OK
Other: OK
Hazardous Materials: OK

PWPSC-83 (Rev. 10/95)

Printed on Recycled Paper

PZUC NO. 2002 0649
1/20/03
465 W. LOS FELIZ RD #G



CITY OF GLENDALE

PZUC No. ZM20649

APPLICATION FOR ZONING USE CERTIFICATE

Submit to Permit Services Center - 633 E. Broadway, Rm. 101, Glendale, CA 91206 • 818-548-3200

Instructions: Please answer the following questions as completely and legibly as possible. Please draw a seating plan on the back of this application if the use is for a restaurant, delicatessen, church, classroom, or theatre.

1. Business Address (Include Suite No., City and Zip Code):
465 W. LOS FELIZ RD #G GLENDALE CA 91204

2. Business Name: ART CONSTRUCTION STUDIO

3. Describe in detail the business activities: Artistics construction For Entertainment Business and Design

4. Applicant's Title? Owner President Doctor Other
Business Owner's Name: Patrick DARME
Mailing Address (If different from business address): same as above
Phone No.: (818) 553-1943 Alt. Phone No.: _____

5. Property Owner's Name: John LEWIS (MGR) Glendale Botany
Address: P.O. Box 712 Imperial Beach, CA 91932 Phone No.: (619) 779-1055

6. Existing Building Use: Gen. Office Retail Medical Office Manufacturing Wholesale/Distribution
 Warehouse Eating Establishment Other

7. Proposed Building Use: Gen. Office Retail Medical Office Manufacturing Wholesale/Distribution
 Warehouse Eating Establishment Other

8. Please fill in the following:
Floor Area for Occupancy: 3000 New Business: Yes No
No. Of Employees: self First Time Business in Glendale: Yes No
No. Of Seats For Patrons: 0 Outdoor Storage (M/M2 Only): Yes No
Alcoholic Beverage Sales: Yes No

9. Are you subleasing? Yes No If Yes To Alcoholic Beverage Sales Existing Proposed

I DECLARE UNDER PENALTY OF PERJURY THAT THE INFORMATION PROVIDED HEREIN IS TRUE AND CORRECT. I FURTHER ACKNOWLEDGE THE ISSUANCE OF THIS CERTIFICATE DOES NOT RELIEVE ME FROM LEGAL OBLIGATION TO OBTAIN ANY AND ALL NECESSARY PERMITS UNDER OR COMPLYING WITH OTHER APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS AS MAY APPLY TO THE USE AND/OR BUSINESS.

Business Owner's Signature: Patrick Darme ID/Driver's Lic. # 86083491 Date: 11/16/02

Signature of this individual must be verified by personal identification. Any person signing this permit application as agent for the business owner shall have an original letter of authorization at the time of application. If a new Zoning Use Certificate has not been obtained within six months after the application fee is paid, a new application and respective fees shall be collected. Upon written request from the applicant, the Zoning Administrator may extend the period of the certificate application.

FOR STAFF USE ONLY (DO NOT WRITE BELOW THIS LINE)

Accepted By: P.P. Date: 11/14/02 Receipt No. 69401/006 Fee 125 Zoning Designation M2 SIC (Proposed) 1781 Section Sheet 3

Staff Comments, Conditions, Restrictions: Requires Fire Shop Date: 11/20/02

Zoning Use Number(s): Warehouse For Entertainment Association Specify Type of Existing Establishment: _____

OK to Submit By: _____ Inspection Required: Yes No

30-day Letter: _____ Request for Service: _____ Denial Letter: _____ 1/1K to Issue By: _____

APPLICANT DOES NOT HAVE TO SIGN MESSAGE LEFT REMAINS THE SAME



CITY OF GLENDALE PZUC No. 20030451

APPLICATION FOR ZONING USE CERTIFICATE

Instructions: Please answer the following questions as completely and legibly as possible. Please draw a seating plan on the back of the application if the use is for a restaurant, deli/caterer, church, classroom or theater.

1. Business Address (Include Suite No., City and Zip Code): 465 W LOS FELIZ RD UNIT B3

2. Business Name: BTSF - TMM

3. Describe in detail the business activities: Upholstery, FRAMES, COLLECTIBLES

4. Applicant's Title? Owner President Officer or CEO
 Business Owner's Name: Patricia Bernal
 Mailing Address: 1553 N Poinsettia Pl. LA 90046
 Phone No. (323) 428-9262 All Phone No. (310) 246-9262

5. Property Owner's Name: John E Lewis
 Address: 465 W Los Feliz Rd Phone No.: 760 799 1093

6. Existing Building Use: Gen. Office Retail Medical Office Manufacturing Wholesale/Distribution
 Warehouse Eating Establishment Other

7. Proposed Building Use: Gen. Office Retail Medical Office Manufacturing Wholesale/Distribution
 Warehouse Eating Establishment ** Other

8. Please fill in the following: ** Draw seating plan on back of application
 Floor Area for Occupancy (Square Feet): 1800 New Business: Yes No
 No. of Employees: 1 First Time Business in Glendale: Yes No
 No. of Seats For Patrons: 0 Outdoor Storage (M/M2 Only): Yes No
 9. Are You Sharing Space (Subleasing)? Yes No
 If Yes, From Whom? Patricia Bernal Alcohol Beverage Sales: Yes No
 Primary Lessee's UO / PZUC No. 82395856 If Yes to Alcohol Beverage Sales: Existing Proposed
 * Attach Copy of Current ABC State License

I DECLARE UNDER PENALTY OF PERJURY, THAT THE INFORMATION PROVIDED HEREIN IS TRUE AND CORRECT. I FURTHER ACKNOWLEDGE THE ISSUANCE OF THIS CERTIFICATE DOES NOT RELIEVE ME FROM LEGAL OBLIGATION TO OBTAIN ANY AND ALL NECESSARY PERMITS AND/OR COMPLYING WITH OTHER APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS AS MAY APPLY TO THE USE AND FOR BUSINESS.

Business Owner's Signature: Patricia Bernal ID/Driver's Lic.: 82395856 Date: 2/16/03
 Signature of this individual must be verified by personal identification. Any person signing this permit application as agent for the business owner shall have an original letter of authorization at the time of application. If a new Zoning Use Certificate has not been obtained within six months after the application fee is paid, a new application and respective fees shall be collected. Upon written request from the applicant, the Zoning Administrator may extend the period of the certificate application.

FOR STAFF USE ONLY (DO NOT WRITE BELOW THIS LINE)

Accepted By: <u>[Signature]</u>	Date: <u>2/3/03</u>	Receipt No.: <u>77502/47</u>	Fee: <u>125.00</u>	Zoning Designation: <u>M2</u>	SIC (Proposed): <u>4539</u>	Section Sheet: <u>3</u>
Staff Comments, Conditions, Restrictions: <u>WAREHOUSING TO WAREHOUSING</u>						
Installation of any racks, shelves, etc. requires permits. JPH						
Zoning Case Number(s): <u>1</u> Specify Type of Eating Establishment: <u>WAREHOUSING</u>						
OK to Submit By: <u>[Signature]</u> Inspection Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fee Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>7/28/03</u>						
30-day Letter: <u>RDJ/DNG</u> Request for Service: <u>7-29-03</u> Denial Letter: <u>[Signature]</u> OK to Issue By: <u>[Signature]</u>						



CITY OF GLENDALE PZUC No. 20030460

APPLICATION FOR ZONING USE CERTIFICATE

Instructions: Please answer the following questions as completely and legibly as possible. Please draw a seating plan on the back of the application if the use is for a restaurant, deli/caterer, church, classroom or theater.

1. Business Address (Include Suite No., City and Zip Code): 465 W. LOS FELIZ BLVD, UNIT A, GLENDALE, CA 91204

2. Business Name: ART AND OILS FOR LESS

3. Describe in detail the business activities: INTERNET SALES, OIL PAINTINGS, FRAMES AND MIRRORS

4. Applicant's Title? Owner President Officer or CEO
 Business Owner's Name: LENA K. JANSEN VAN RENSBURG
 Mailing Address: 6072 FRANKLIN AVENUE #306, L.A. CA 90022
 Phone No. 323-365-2694 All Phone No. 323-465-9745

5. Property Owner's Name: John E Lewis
 Address: 465 W. LOS FELIZ BLVD, UNIT D, GLENDALE, CA 91204 Phone No.: (760) 999 1093

6. Existing Building Use: Gen. Office Retail Medical Office Manufacturing Wholesale/Distribution
 Warehouse Eating Establishment Other

7. Proposed Building Use: Gen. Office Retail Medical Office Manufacturing Wholesale/Distribution
 Warehouse Eating Establishment ** Other

8. Please fill in the following: ** Draw seating plan on back of application
 Floor Area for Occupancy (Square Feet): 1,500 sq ft New Business: Yes No
 No. of Employees: 1 First Time Business in Glendale: Yes No
 No. of Seats For Patrons: NONE Outdoor Storage (M/M2 Only): Yes No
 9. Are You Sharing Space (Subleasing)? Yes No
 If Yes, From Whom? Patricia Bernal Alcohol Beverage Sales: Yes No
 Primary Lessee's UO / PZUC No. 82395856 If Yes to Alcohol Beverage Sales: Existing Proposed
 * Attach Copy of Current ABC State License

I DECLARE UNDER PENALTY OF PERJURY, THAT THE INFORMATION PROVIDED HEREIN IS TRUE AND CORRECT. I FURTHER ACKNOWLEDGE THE ISSUANCE OF THIS CERTIFICATE DOES NOT RELIEVE ME FROM LEGAL OBLIGATION TO OBTAIN ANY AND ALL NECESSARY PERMITS AND/OR COMPLYING WITH OTHER APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS AS MAY APPLY TO THE USE AND FOR BUSINESS.

Business Owner's Signature: Lena K. Jansen van Rensburg ID/Driver's Lic.: 82395856 Date: 07/17/03
 Signature of this individual must be verified by personal identification. Any person signing this permit application as agent for the business owner shall have an original letter of authorization at the time of application. If a new Zoning Use Certificate has not been obtained within six months after the application fee is paid, a new application and respective fees shall be collected. Upon written request from the applicant, the Zoning Administrator may extend the period of the certificate application.

FOR STAFF USE ONLY (DO NOT WRITE BELOW THIS LINE)

Accepted By: <u>[Signature]</u>	Date: <u>7/17/03</u>	Receipt No.: <u>77502/47</u>	Fee: <u>125.00</u>	Zoning Designation: <u>M2</u>	SIC (Proposed): <u>4539</u>	Section Sheet: <u>3</u>
Staff Comments, Conditions, Restrictions: <u>"WAREHOUSING"</u>						
NO OUTSIDE SALES ALLOWED						
INSTALLATION OF SHELVES, RACKS, ETC. REQUIRES A BUILDING PERMIT & A/C CLEARANCE. JPH						
Zoning Case Number(s): <u>1</u> Specify Type of Eating Establishment: <u>WAREHOUSING</u>						
OK to Submit By: <u>[Signature]</u> Inspection Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fee Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>7-22-03</u>						
30-day Letter: <u>RDJ/DNG</u> Request for Service: <u>7-17-03</u> Denial Letter: <u>[Signature]</u> OK to Issue By: <u>[Signature]</u>						

Business Address: 465 W Los Feliz Blvd Unit B3 PZUC No. 20030451

Business Address: 465 W Los Feliz Blvd Unit D PZUC No. 20030460



May 14, 1997

Maness Project No. 51357

Glendale Rotary Offset Printing Co.
112 South Maryland Avenue
Glendale, CA 91205
Attn: Robert Deal

RE: SUBSURFACE INVESTIGATION
445 FERNANDO COURT & 465 FERNANDO COURT, GLENDALE, CA.

Dear Mr. Deal:

Maness Corporation (Maness) is pleased to submit the results of a subsurface investigation at your above referenced site in Glendale, CA. On March 26, 1997, Spectrum Environmental Services, Inc. of San Fernando, CA, conducted magnetics investigations in two areas. The first area is at 445 Fernando Court, herein referred to as Area 1 and the second is at 465 Fernando Court, herein referred to as Area 2. The purpose was to determine the possible locations of buried underground storage tanks (USTs).

The equipment used in this investigation included a Geometrics 856AX proton precession magnetometer with a gradient sensor (gradiometer), electromagnetic utility-locating instruments, and a shallow-focus terrain conductivity meter.

The vertical gradient magnetics method was used to identify areas where large concentrations of ferromagnetic materials, such as a UST, may be buried. In Area 1 a grid of southeast/northwest traverses (Lines) spaced 5 feet apart was established with magnetics data collected at 5-foot intervals (Stations) along each traverse. In Area 2 a grid of southeast/northwest traverses spaced 10 feet apart was established with magnetics data collected at 10-foot intervals along each traverse.

All data were stored internally in the magnetometer and transferred to a lap-top computer for processing. These data were processed in the field and used to generate a vertical gradient magnetics contour map to identify anomalous areas that may represent USTs.

1101 East Spring Street • Long Beach, CA 90806
P.O. Box 90939 • Long Beach, CA 90809-0939
Contractor's License No. 553633
(310) 595-4555 FAX: (310) 492-6495

No UST-like signatures were evident in the magnetics data in both Area 1 and Area 2. Buried conduits in Area 1 were the source of magnetics anomalies observed along Lines 20 - 35 between Stations 0 - 20. The sources of the remaining magnetics anomalies were the building and chain-link fence (refer to Figure 2 in the Enclosure).

Thank you very much for the opportunity to provide you with environmental services. If you have any questions or comments, please feel free to call me or Ed Wardle at (562) 595-4555.

Sincerely,
Maness Corporation


Gabriele Raader, REA
Project Manager

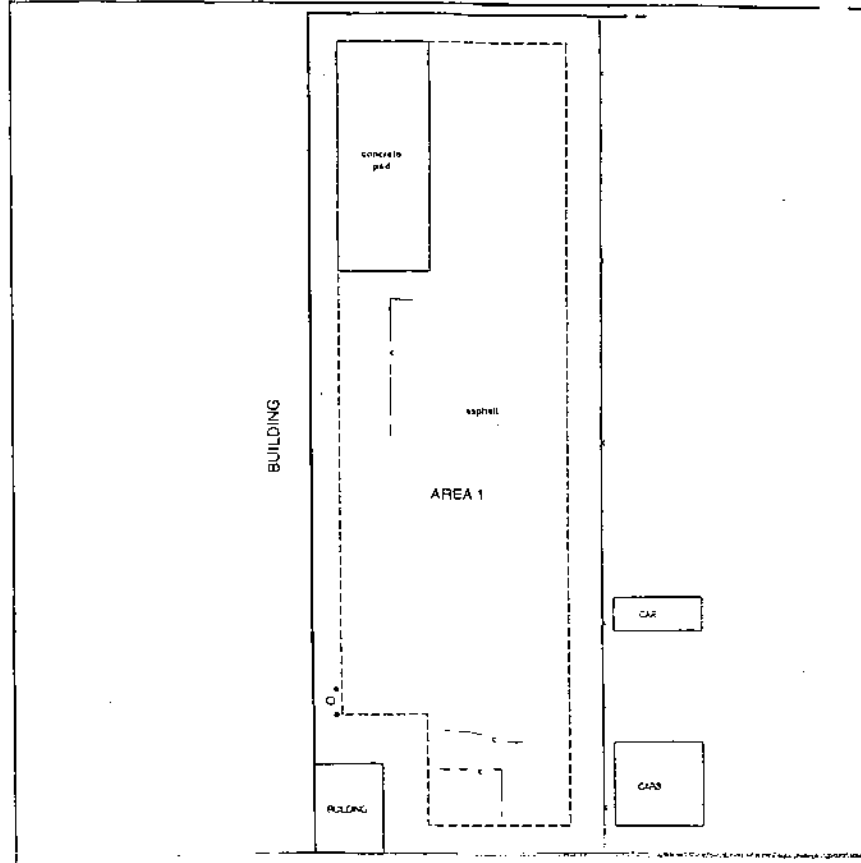
Enclosure:

Figure 1 through Figure 4

FIGURE 1
 AREA OF MAGNETICS INVESTIGATION
 445 FERNANDO COURT
 GLENDALE, CALIFORNIA



SPECTRUM E.S.I.
 622 GLENDALE BLVD., SAN FERNANDO, CA 91340
 (818) 305-9371

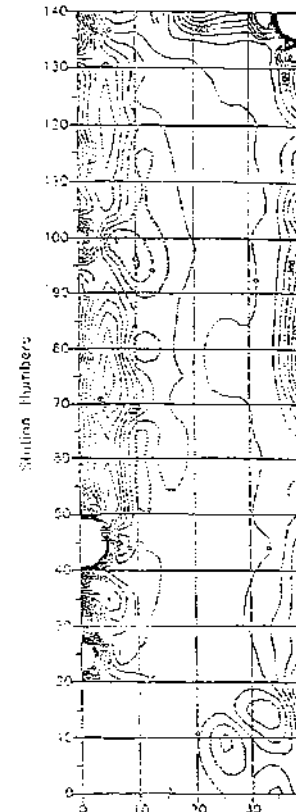


EXPLANATION

	Area of magnetic investigation		Chain-link fence	 One inch equals approximately 20 feet	Project Number: 97032611 Date of Investigation: March 24, 1997 Made by: T. Han
	Power pole		Conduit		
	Traffic sign		Trend continues	<small>Not all below ground features may be represented on this map.</small>	

Figure 2: Vertical Gradient Magnetics Contour Map

Area 1: Vacant Lot
 445 Fernando Court
 Glendale, California



	 Scale: One inch equals approximately 20 feet	Contour Interval: 100 gammas/foot Project Number: 97032611 Date of Investigation: March 26, 1997	SPECTRUM E.S.I. "URBAN GEOPHYSICS" 622 Glendale Blvd., San Fernando, CA 91340
--	---	--	---

FIGURE 3
AREA OF MAGNETICS INVESTIGATION
 466 FERNANDO COURT
 GLENDALE, CALIFORNIA

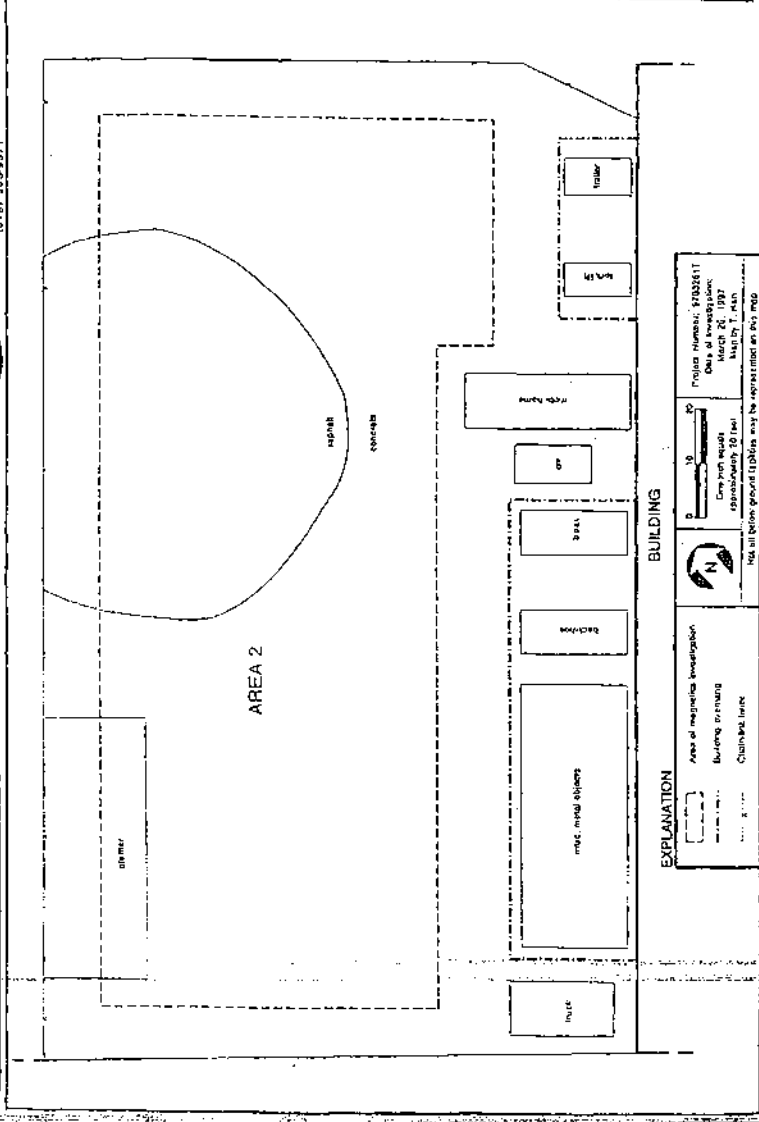
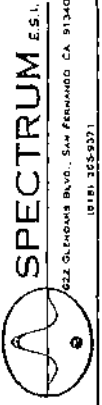
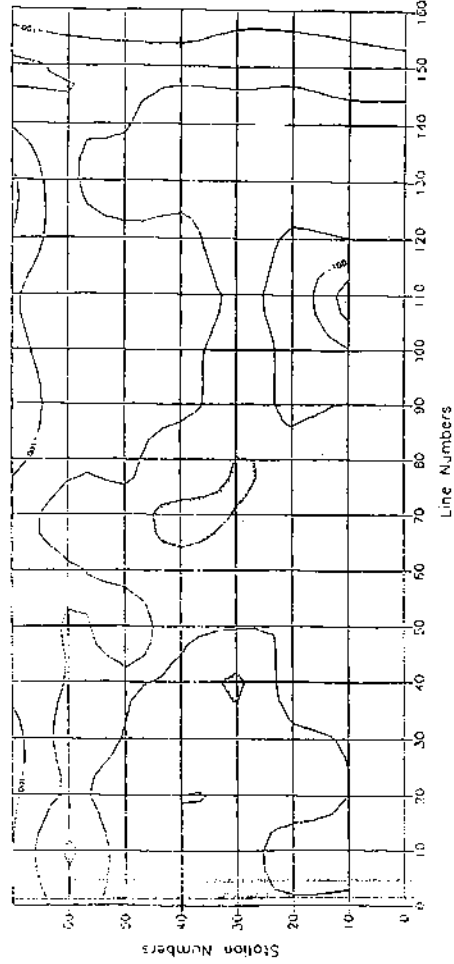


Figure 4 - Vertical Gradient Magnetic Contour Map

Area 2, Truck Facility
 466 Fernando Court
 Glendale, California



	SPECTRUM ES.1
Colour Interval: 100 gamma/ftal	"URBAN GEOPHYSICS" 622 Glendale Boulevard San Fernando, CA 91340
Scale: One inch equals approximately 20 feet	Project Number: 97032611 Date of Investigation: March, 1997

Material Safety Data Sheet

Issue Date: 03/25/98 Revision Date: 08/19/98 Page: 1 of 6

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product (Trade) Name: QR-D1 DEVELOPER REPLENISHER 10 L
 Product Code: 55414006
 Supplier: Fujifilm Photo Film U.S.A., Inc.
 555 Taxler Road, Elmsford, NY 10523
 Chemical Emergencies (24 Hrs): (800) 424-9300 (CHEMTREC)
 Medical Emergencies (24 Hrs): (202) 625-3333 (Capitol Poison Control Center)
 General Product Information (9am-5pm E.S.T.): (914) 789-8100 or (800) 755-3854
 Fujifilm MSDS Faxback Telephone (24 Hrs): (888) 354-3854

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS No.	% by Weight	OSHA PEL	ACGIH TLV
potassium carbonate	584-08-7	7 - 15 %	NE	NE
potassium sulfite	10117-38-1	5 - 10 %	NE	NE
sodium sulfite	7757-83-7	3 - 7 %	NE	NE
hydroquinone	123-31-9	3 - 7 %	2 mg/m3 TWA	2 mg/m3 TWA
diethyleneglycol	111-46-6	3 - 7 %	NE	NE
water	7732-18-5	60 - 80 %	None	None

NE=Not Established PEL=Permissible Exposure Limit TLV=Threshold Limit Value TWA=Time Weighted Average

SECTION 3 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

The product is liquid and is/has a practically odorless
 Warning: Irritant. Contains sulfites that may cause respiratory distress to asthmatics/ sulfite sensitive individuals
 Toxic gases may be released under fire conditions.
 Wear equipment to protect eyes, skin and respiratory tract. Dike or absorb spills to keep material and run-off from entering sewer or waterways. Use water to cool containers and disperse vapors.
 HMIS Rating: Health 2 Fire 0 Reactivity 0 Protection C
 NFPA Rating: Health 2 Fire 0 Reactivity 0 Specific Hazards None
 Hazard rating: 0 = minimal 1 = slight 2 = moderate 3 = serious 4 = severe * see section 16
 C = gloves goggles and apron UN NO: None ERG GUIDE NO: None

NE Not Established N/Av Not Available N/Ap Not Applicable N No Y Yes
 QR-D1 DEVELOPER REPLENISHER 10 L Product Code: 55414006 Printed 08.25.98

Material Safety Data Sheet

Issue Date: 03/25/98 Revision Date: 08/19/98 Page: 2 of 6

Potential Health Effects from Overexposure

Skin: Causes irritation to the skin. May cause allergic skin reaction.
 Eyes: Causes irritation to the eyes.
 Inhalation: Causes irritation to the respiratory tract and mucous membranes. Contains sulfites that may cause respiratory distress to asthmatics/ sulfite sensitive individuals.
 Ingestion: Causes irritation to the gastrointestinal tract and stomach. Contains sulfites that may cause respiratory distress to asthmatics/ sulfite sensitive individuals.
 Conditions Aggravated by Exposure: Asthma, skin sensitivity
 Are Components Listed as Carcinogens: IARC: N NTP: N OSHA: N

SECTION 4 - FIRST AID MEASURES

Eye Contact: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.
 Skin Contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing.
 Ingestion: Consult a physician or transport to emergency facility immediately.
 Inhalation: Remove to fresh air. Consult a physician if respiratory irritation is experienced.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties

Flash Point: N/Av deg C
 Not combustible
 Autoignition Temperature: N/Av deg C
 Not combustible.
 Explosion Limits: Lower: N/Ap vol % N/Ap
 Upper: N/Ap vol % N/Ap
 Not applicable.
 Extinguishing Media: Water.
 Water fog, carbon dioxide, foam, dry chemicals.
 Unsuitable Extinguishing Media: None under normal conditions.
 Fire Fighting Instructions: Keep containers cool by spraying with water.
 Evacuate area and fight fire from a safe distance. Wear positive pressure demand breathing apparatus and protect eyes and skin. Use water to cool fire-exposed containers, to protect personnel and to disperse vapors and spills. Water runoff can damage the environment. Dike and collect water used to fight fire.

NE Not Established N/Av Not Available N/Ap Not Applicable N No Y Yes
 QR-D1 DEVELOPER REPLENISHER 10 L Product Code: 55414006 Printed 08.25.98

Material Safety Data Sheet

Issue Date: 03/25/98 Revision Date: 08/19/98 Page 3 of 6

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Small Spills: Wear adequate personal protective equipment, see Section 8 (Exposure Controls/Personal Protection).
Spills should be contained by, and covered with suitable absorbent material and removed for disposal.
Dispose of according to local and national regulations.
Prevent from entering into soil, waterways and groundwater.

Large Spills: For larger spills requiring emergency response, neoprene boots and respiratory protection may also be required. Follow OSHA regulations and NIOSH recommendations for respiratory protection (see 29 CFR 1910.134 and NIOSH pub. 87-108) and emergency response (see 29 CFR 1910.120). Hold in properly labeled DOT approved waste container. Dike large spills to minimize the spill area. Material can cause environmental damage.

SECTION 7 - HANDLING / STORAGE

Handling: Avoid eye and skin contact.
Wash thoroughly after handling.
Wash hands and exposed skin before eating, drinking or smoking and after work.
Use only in well ventilated area.

Storage: Keep containers tightly closed.
Store in a well ventilated, cool, dry area.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation: Good general ventilation should be sufficient for most processing operations. Vent work area to ensure airborne concentrations are below the current occupational exposure limits. 10 or more room air changes per hour containing a minimum of 15% fresh air, will meet these requirements.
Consult ASHRAE 62-1989 for further requirements.

Personal Protective Equipment

Respiratory Protection: No respiratory protection needed under normal conditions.
Good general ventilation should be sufficient.

Skin Protection: Neoprene or butyl rubber should be effective glove materials.

Eye Protection: Use chemical safety goggles.
Eye wash station should be located in immediate work area.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid
Color: Yellow
Odor: Practically Odorless

Change in Physical State

Melting Point: - 0 deg C
Boiling Point: - 160 deg C

Specific Gravity: 1.280
Vapor Pressure: N/A
Viscosity: N/A

NE Not Established N/A Not Available N/A Not Applicable N No Y Yes
QR-01 DEVELOPER REPLENISHER 10 L Product Code: 55414006 Printed 08.25.98

Material Safety Data Sheet

Issue Date: 03/25/98 Revision Date: 08/19/98 Page 4 of 6

Solubility in Water: N/A g/l (20 °C)
Completely soluble

pH-Value: 10.77

VOC: 1.09 lbs/ gallon (Max)

SECTION 10 - STABILITY AND REACTIVITY

Hazardous Polymerization: Is stable under normal storage conditions.

Hazardous Decomposition Products: In case of thermal decomposition poisonous and irritant gases/fumes can be released.
CO₂, SO₂.

Materials and Conditions to Avoid: Strong Acids, Oxidizers
Avoid high temperatures, open flame, sparks and direct sunlight.

SECTION 11 - TOXICOLOGICAL INFORMATION

Product Information

Oral LD50: > 2000 mg/kg Test Animal: Oral Rats

Dermal LD50: N/A Test Animal: N/A

Primary Skin Irritation Index: N/A Test Animal: N/A

Primary Eye Irritation Index: N/A Test Animal: N/A

Acute Overexposure: Moderately toxic by oral ingestion. Skin and eye irritant. Irritating to the respiratory tract, mucous membranes, gastrointestinal tract and stomach. Contains sulfites that may cause respiratory distress to asthmatics/ sulfite sensitive individuals.

Chronic Overexposure: May cause an allergic skin reaction in sensitive individuals. Hydroquinone may also cause brown staining of the conjunctiva following prolonged direct eye contact with the solid and may depigment the skin following repeated skin contact under some circumstances. Hydroquinone is a CNS stimulant based on animal studies. Although hydroquinone is not a human carcinogen, it has caused cancer in some animal studies. It does not cause adverse reproductive effects when administered at dose levels not causing systemic toxicity in the mother.

Ingredient Information

CAS No.	Component	LD50 (mg/kg)	Test Animal
584-08-7	potassium carbonate	1870	Rats
10117-38-1	potassium sulfite	N/A	N/A
7757-83-7	sodium sulfite	820	Mice
123-31-9	hydroquinone	320	Rats
111-46-6	diethyleneglycol	12565	Rats

Further Information: None

NE Not Established N/A Not Available N/A Not Applicable N No Y Yes
QR-01 DEVELOPER REPLENISHER 10 L Product Code: 55414006 Printed 08.25.98

Material Safety Data Sheet

Issue Date: 03/25/98 Revision Date: 08/19/98 Page: 5 of 6

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity Data: N/Av

Chemical Fate Data: N/Av

Ingredient Information

CAS No.	Component	Fish Toxicity	Fish Organism
584-08-7	potassium carbonate	LC50 N/Av	N/Av
10117-38-1	potassium sulfite	LC50 130 mg/L	Not identified
7757-83-7	sodium sulfite	LC50 N/Av	N/Av
123-31-9	hydroquinone	LC50 0.15 - 0.16 mg/L	Golden crfe
111-46-6	diethyleneglycol	LC50 9630/8450mg/L	Golden crfe

SECTION 13 - DISPOSAL CONSIDERATIONS

Hazardous Waste Characteristic: Not classified as RCRA Hazardous Waste.

Recommendation:

DO NOT discharge to septic systems. Discharging this material to a sewer may require a permit. Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures. Dispose of contaminated product, empty containers and materials used in cleaning up spills or leaks in a manner approved for this material.

SECTION 14 - TRANSPORTATION INFORMATION

Component Shipping Name: Not Regulated.

Hazard Class: None UN Number: None Packing Group: None

Other Instructions: Product is labeled in accordance with U.S. 49CFR.

ICAO/IATA

Proper Shipping Name: Not Regulated.

Class: None

UN-No.: None

Packing group: None

Subsidiary Risk: None

Labels:

Passenger aircraft: Packing Instruction: None Max.: None

Cargo aircraft only: Packing Instruction: None Max.: None

Kit Shipping Name: N/Ap

Further Information: Not regulated by any mode of transportation.

NE: Not Established N/Av: Not Available N/Ap: Not Applicable N: No Y: Yes

QR-D1 DEVELOPER REPLENISHER 10L Product Code: 55414006 Printed: 08.25.98

Material Safety Data Sheet

Issue Date: 03/25/98 Revision Date: 08/19/98 Page: 6 of 6

SECTION 15- REGULATORY INFORMATION

U.S. Federal Regulation

OSHA: Hazard Communication Rule, 29 CFR, 1910 1200
 SARA Title III, 302: Listed Extremely Hazardous Substance in 40 CFR 355
 SARA Title III, 313: SARA Title III requires submission of annual reports for Toxic Release Inventory for certain SIC codes
 SARA CERCLA RQ: Accidental release of substances above the Reportable Quantity (RQ) listed below require reporting under this statute.
 CAA: Clean Air Act, Hazardous Air Pollutants
 CWA: Clean Water Act, Priority Pollutants
 TSCA Export: Export Certification required per TSCA Section 4, 5 or 12(b)
 TSCA Certification: All ingredients comply with EPA TSCA regulations.

Federal Regulatory Information

Ingredient	CAS Number	SARA Title III					CERCLA RQ
		302	311	EXACT	CAA	CWA	
potassium carbonate	584-08-7	N	N	N	N	N	N
potassium sulfite	10117-38-1	N	N	N	N	N	N
sodium sulfite	7757-83-7	N	N	N	N	N	N
hydroquinone	123-31-9	Y	Y	N	Y	N	N
diethyleneglycol	111-46-6	N	N	N	N	N	N

State Regulatory Information

Ingredient	CAS Number	CA							
		Prop 65	FL	MA	MI	MN	NJ	PA	
potassium carbonate	584-08-7	N	N	N	N	N	N	N	
potassium sulfite	10117-38-1	N	N	N	N	N	N	N	
sodium sulfite	7757-83-7	N	N	N	N	N	N	N	
hydroquinone	123-31-9	N	Y	N	Y	Y	Y	Y	
diethyleneglycol	111-46-6	N	N	N	N	Y	N	Y	

California Proposition 65 Warning: None

SECTION 16 - OTHER INFORMATION

For industrial use only. Keep away from children.

NFPA and HMIS ratings are intended to permit speedy general identification of the extent of particular acute hazards. These hazard ratings involve interpretations of data which may vary between companies. All of the information contained in this MSDS must be considered in order to correctly address the safe handling of this product.

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

NE: Not Established N/Av: Not Available N/Ap: Not Applicable N: No Y: Yes

QR-D1 DEVELOPER REPLENISHER 10L Product Code: 55414006 Printed: 08.25.98

Material Safety Data Sheet

Issue Date: 02/25/98 Revision Date: 08/19/98

Page 1 of 6

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product (Trade) Name: UR-F1 FIXER 10 L
 Product Code: 55414007
 Supplier: Fujifilm U.S.A., Inc.
 555 Taxler Road, Elmsford, NY 10523
 Chemical Emergencies (24 Hrs): (800) 424-9300 (CHEMTREC)
 Medical Emergencies (24 Hrs): (202) 625-3333 (Capitol Poison Control Center)
 General Product Information (9am-5pm E.S.T.): (914) 789-8100 or (800) 755-3854
 Fujifilm MSDS Faxback Telephone (24 Hrs): (888) 354-3854

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS No.	% by Weight	OSHA PEL	ACGIH TLV
ammonium thiosulfate	7783-18-8	20 - 40 %	NE	NE
sodium sulfite	7757-83-7	5 - 10 %	NE	NE
sodium acetate	127-09-3	3 - 7 %	NE	NE
acetic acid	64-19-7	1 - 5 %	10 ppm TWA, 25 mg/m ³ TWA	10 ppm TWA, 25 mg/m ³ TWA
aluminum sulfate	10043-01-3	1 - 5 %	NE	NE
sodium thiosulfate	7772-98-7	1 - 5 %	NE	NE
water	7732-18-5	40 - 60 %	None	None

NE-Not Established PEL-Permissible Exposure Limit TLV-Threshold Limit Value TWA-Time Weighted Average

SECTION 3 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

The product is liquid and has a vinegar odor.
 Caution: Irritant. Contains sulfites that may cause respiratory distress to asthmatics/ sulfite sensitive individuals. Contact with industrial or household bleach can result in the release of hazardous or toxic gases.
 Toxic gases may be released under fire conditions.

Wear equipment to protect eyes, skin and respiratory tract. Dike or absorb spills to keep material and runoff from entering sewer or waterways. Use water to cool containers and disperse vapors.

MFIS Rating: Health 1 Fire 0 Reactivity 0 Protection C
 NFPA Rating: Health 1 Fire 0 Reactivity 0 Specific Hazards None

Hazard Rating: 0 = minimal 1 = slight 2 = moderate 3 = serious 4 = severe * see section 16

C = gloves, goggles and apron UN NO. None EPC GUIDE NO. None

Material Safety Data Sheet

Issue Date: 03/25/98 Revision Date: 08/19/98

Page 2 of 6

Potential Health Effects from Overexposure

Skin: Causes irritation to the skin. May cause allergic skin reaction.
 Eyes: Causes irritation to the eyes.
 Inhalation: Causes irritation to the respiratory tract and mucous membranes. Contains sulfites that may cause respiratory distress to asthmatics/ sulfite sensitive individuals.
 Ingestion: May cause irritation to the gastrointestinal tract and stomach. Contains sulfites that may cause respiratory distress to asthmatics/ sulfite sensitive individuals.
 Condition Aggravated by Exposure: Asthma, skin sensitivity.
 Air Components Listed as Carcinogens: IARC: N NTP: N OSHA: N

SECTION 4 - FIRST AID MEASURES

Eye Contact: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.
 Skin Contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing.
 Ingestion: Consult a physician or transport to emergency facility immediately.
 Inhalation: Remove to fresh air. Consult a physician if respiratory irritation is experienced.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties

Flash Point: N/A; deg C
 Not combustible.
 Autoignition Temperature: N/A; deg C
 Not combustible.
 Explosion Limits: Lower: N/A; vol.% N/A
 Upper: N/A; vol.% N/A
 Not applicable
 Extinguishing Media: Water.
 Water fog, carbon dioxide, foam, dry chemicals.
 Unsuitable Extinguishing Media: None under normal conditions.
 Fire Fighting Instructions: Keep containers cool by spraying with water.

Evacuate area and fight fire from a safe distance. Wear positive pressure demand breathing apparatus and protect eyes and skin. Use water to cool fire-exposed containers, to protect personnel and to disperse vapors and spills. Water runoff can damage the environment. Dike and collect water used to fight fire.

NE: Not Established N/A: Not Available N/Ap: Not Applicable N: No Y: Yes

UR-F1 FIXER 10 L Product Code: 55414007 Printed 08/25/98

NE: Not Established N/A: Not Available N/Ap: Not Applicable N: No Y: Yes

UR-F1 FIXER 10 L Product Code: 55414007 Printed 08/25/98

Material Safety Data Sheet

Issue Date: 03/25/98 Revision Date: 08/19/98 Page 3 of 6

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Small Spills: Wear adequate personal protective equipment, see Section 8 (Exposure Controls/Personal Protection).
Spills should be contained by, and covered with suitable absorbent material and removed for disposal.
Dispose of according to local and national regulations.
Prevent from entering into soil, waterways and groundwater.

Large Spills: For larger spills requiring emergency response, neoprene boots and respiratory protection may also be required. Follow OSHA regulations and NIOSH recommendations for respiratory protection (see 29 CFR 1910.134 and NIOSH pub. 87-108) and emergency response (see 29 CFR 1910.120). Hold in properly labeled DOT approved waste container. Dike large spills to minimize the spill area. Material can cause environmental damage.

SECTION 7 - HANDLING / STORAGE

Handling: Avoid eye and skin contact.
Wash thoroughly after handling.
Wash hands and exposed skin before eating, drinking or smoking and after work.
Use only in well ventilated area.

Storage: Keep containers tightly closed.
Store in a well ventilated, cool, dry area.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation: Good general ventilation should be sufficient for most processing operations. Vent work area to ensure airborne concentrations are below the current occupational exposure limits. 10 or more room air changes per hour containing a minimum of 15% fresh air, will meet these requirements.
Consult ASHRAE 62-1989 for further requirements.

Personal Protective Equipment

Respiratory Protection: No respiratory protection needed under normal conditions.
Good general ventilation should be sufficient.

Skin Protection: Neoprene or butyl rubber should be effective glove materials.

Eye Protection: Use chemical safety goggles.
Eye wash station should be located in immediate work area.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid
Color: Yellow
Odor: Vinegar Odor

Change in Physical State

Melting Point: ~ 0 deg C
Boiling Point: ~ 100 deg C
Specific Gravity: 1.285

Material Safety Data Sheet

Page 4 of 6

Issue Date: 03/25/98 Revision Date: 08/19/98

Vapor Pressure: N/A
Viscosity: N/A
Solubility in Water: N/A g/l (20 °C)
Completely soluble
pH-Value: 4.85
VOC: 1.16 lb/gallon (Max)

SECTION 10 - STABILITY AND REACTIVITY

Hazardous Polymerization: Is stable under normal storage conditions.

Hazardous Decomposition Products: In case of thermal decomposition poisonous and irritant gases/fumes can be released
CO₂, SO₂,
Ammonia.

Materials and Conditions to Avoid: Strong Acids, Strong Bases and Oxidizers. This product contains an Ammonia compound. Do not allow it to come in contact with Household Bleach (Sodium Hypochlorite). Mixing of these chemicals can release hazardous or toxic gases.
Avoid high temperatures, open flame, sparks and direct sunlight.

SECTION 11 - TOXICOLOGICAL INFORMATION

Product Information

Oral LD50: > 2000 mg/kg Test Animal: Oral, Rats

Dermal LD50: N/A Test Animal: N/A

Primary Skin Irritation Index: N/A Test Animal: N/A

Primary Eye Irritation Index: N/A Test Animal: N/A

Acute Overexposure: Causes irritation to the skin and eyes. May cause irritation to the respiratory tract, mucous membranes, gastrointestinal tract and stomach. Contains sulfites that may cause respiratory distress to asthmatics/ sulfite sensitive individuals. Responses include wheezing, chest tightness, lures, weakness, and diarrhea.

Chronic Overexposure: Contact dermatitis. Skin sensitizer

Ingredient Information

CAS No.	Component	LD50 (mg/kg)	Test Animal
7783-18-8	ammonium thiosulfate	2630	Rats
7757-83-7	sodium sulfite	820	Mice
127-09-3	sodium acetate	3530	Rats
64-19-7	acetic acid	3310	Rats
10943-01-3	aluminum sulfate	6207	Mice
7772-98-7	sodium thiosulfate	> 2500	Rats

Further information: None.

NE: Not Established N/A: Not Available N/Ap: Not Applicable N: No Y: Yes

UR-F1 FIXER 10L

Product Code: 55414007

Printed 08/25/98

NE: Not Established N/A: Not Available N/Ap: Not Applicable N: No Y: Yes

UR-F1 FIXER 10L

Product Code: 55414007

Printed 08/25/98

Material Safety Data Sheet

Material Safety Data Sheet

Issue Date: 09/25/98 Revision Date: 08/19/98

Page 5 of 8

Issue Date: 03/25/98 Revision Date: 08/19/98

Page 6 of 6

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity Data: N/A
 Chemical Fate Data: N/A

Ingredient Information

CAS No.	Component	Fish Toxicity	Fish Organism
7783-18-8	ammonium thiosulfate	LC50 N/A	N/A
7757-83-7	sodium sulfite	LC50 N/A	N/A
127-09-3	sodium acetate	LC50 >5000 mg/L	Bluegill
64-19-7	acetic acid	LC50 251 ppm	Gambusia affinis
10043-01-3	aluminum sulfate	LC50 N/A	N/A
7772-98-7	sodium thiosulfate	LC50 26000 ppm	Gambusia affinis

SECTION 13 - DISPOSAL CONSIDERATIONS

Hazardous Waste Characteristics: Not classified as RCRA Hazardous Waste.

Recommendation:

DO NOT discharge to septic systems. Discharging this material to a sewer may require a permit. Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures. Dispose of contaminated product, empty containers and materials used in cleaning up spills or leaks in a manner approved for this material.

SECTION 14 - TRANSPORTATION INFORMATION

Component Shipping Name: Not Regulated
 Hazard Class: None UN Number: None Packing Group: None
 Other Instructions: Product is labeled in accordance with U.S. 49CFR.

ICAO/IATA

Proper Shipping Name: Not Regulated
 Class: None
 UN-No.: None
 Packing group: None
 Subsidiary Risk: None
 Labels: None

Passenger aircraft: Packing instruction: None Max.: None
 Cargo aircraft only: Packing instruction: None Max.: None

IC Shipping Name: N/A

Further Information: Not regulated by any mode of transportation.

SECTION 15 - REGULATORY INFORMATION

U.S. Federal Regulation

OSHA: Hazard Communication Rule, 29 CFR, 1910.1200
 SARA Title III, 302: Listed Extremely Hazardous Substance in 40 CFR 355
 SARA Title III, 313: SARA Title III requires submission of annual reports for Toxic Release Inventory for certain SIC codes
 SARA CERCLA RQ: Accidental release of substances above the Reportable Quantity (RQ) listed below require reporting under this statute.
 CAA: Clean Air Act, Hazardous Air Pollutants
 CWA: Clean Water Act, Priority Pollutants
 TSCA Export: Export Certification required per TSCA Section 4, 5 or 12(b)
 TSCA Certification: All ingredients comply with EPA TSCA regulations.

Federal Regulatory Information

Ingredient	CAS Number	SARA		TSCA		CERCLA RQ
		102	311	Export	C&A	
ammonium thiosulfate	7783-18-8	N	N	N	N	N
sodium sulfite	7757-83-7	N	N	N	N	N
sodium acetate	127-09-3	N	N	N	N	N
acetic acid	64-19-7	N	N	N	N	Final RC = 5003 pounds (2270 kg)
aluminum sulfate	10043-01-3	N	N	N	N	Final RC = 5000 pounds (2270 kg)
sodium thiosulfate	7772-98-7	N	N	N	N	N

State Regulatory Information

Ingredient	CAS Number	CA							
		Prop65	FL	WA	MI	MN	NJ	PA	
ammonium thiosulfate	7783-18-8	N	N	N	N	N	Y	Y	
sodium sulfite	7757-83-7	N	N	N	N	N	N	N	
sodium acetate	127-09-3	N	N	N	N	N	N	N	
acetic acid	64-19-7	N	Y	N	N	Y	Y	Y	
aluminum sulfate	10043-01-3	N	N	N	N	N	Y	Y	
sodium thiosulfate	7772-98-7	N	N	N	N	N	N	N	

California Proposition 65 Warning: None

SECTION 16 - OTHER INFORMATION

For industrial use only. Keep away from children.

HFSA and HWS ratings are intended to permit speedy general identification of the extent of particular acute hazards. These hazard ratings involve interpretations of data which may vary between companies. All of the information contained in this MSDS must be considered in order to correctly address the safe handling of this product.

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

IMAGING SUPPLIES AND EQUIPMENT
200 Carol Street
Compton, CA 90220

MEDICAL EMERGENCY PHONE NUMBER * (904) 254-3500 * This number is available days, nights, weekends, and holidays.
TRANSPORTATION EMERGENCY PHONE NUMBER * (800) 424-9300 * Chemtrec.

This MSDS complies with 29 CFR 1910.1200, Hazard Communication Standard. Federal law requires persons receiving the Material Safety Data Sheet to study it carefully, become aware of hazards, if any, of the product involved. In the interest of safety you should: (1) notify your employees, agents, and contractors of the information on this sheet; (2) furnish a copy to each of your customers for the product; and (3) request your customers to inform their employees and customers as well.

FOR INDUSTRIAL USE ONLY USE ONLY AS DIRECTED DO NOT TAKE INTERNALLY

SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME: ELITE FILM CLEANER
PRODUCT NUMBER: 4575
DOT PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S.
DOT NUMBER: UN1993
DATE OF LAST MSDS SHIPMENT: N/A
SDS PREPARED BY: L. ANDERSON

HMS INFORMATION: Health - 2 Flammability - 3
Reactivity - 0 Personal Protective Equipment - B

HAZARD INDEX: 4 = Severe 3 = Serious 2 = Moderate 1 = Slight 0 = Least
Safety Glasses & Gloves

SECTION II HAZARDOUS INGREDIENTS

INGREDIENT	CAS#	% BY WT.	ACGIH TLV(TWA) PPM	OSHA PEL PPM	OTHER LIMITS
HEXANE	/110-54-3	/ 85-100	/ 50.00/	50.00/	
	/	/	/	/	/(PEL IS TWA)
	/	/	/	/	/STEL = 1000 P
ISOPROPYL ALCOHOL	/67-63-0	/ 5-15	/ 400.00/	400.00/	
(Syn.: IPA, Isopropyl 1)	/	/	/	/	

ELITE FILM CLEANER

This product does NOT contain any carcinogens or suspected carcinogens which are noted by NTP, IARC or OSHA-2 in the other limits column.

SECTION III PHYSICAL DATA

Boiling Range: High- 180.0 F Low- 149.0 F
Vapor Pressure: 127.40 MMHG @68 F
Vapor Density: HEAVIER THAN AIR
Evaporation Rate: FASTER THAN BUTYL ACETATE
Weight lbs./gal.: 5.7
Method 24 VOC: 5.7 LBS./GAL.
Physical State: LIQUID
Appearance: CLEAR, COLORLESS
Odor: SOLVENT
pH: N/A
Water Solubility: 0%
California SQCMD Rule 102: NONPHTOCHEMICALLY REACTIVE

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: Class IB DOT: Flammable Liquid
ACTUAL FLASHPOINT TCC: 10.0 F.

EXTINGUISHING MEDIA: Use water spray, foam, CO2, or dry chemical fire fighting apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep work areas free of hot metal surfaces and other sources of ignition.

FIRE FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool nearby containers and structures exposed to fire.

ELITE FILM CLEANER

SECTION V EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Gently flush with large quantities of water for at least 15 minutes and seek medical attention immediately.

SKIN CONTACT: Remove contaminated clothing (wash before re-use), wash affected skin areas with soap and water, and seek medical attention if irritation persists.

INHALATION: If breathing difficulties, dizziness or light-headedness occur when working in areas with high vapor concentrations, victim should seek fresh air. If breathing stops, give artificial respiration and seek immediate medical attention.

INGESTION: Do not induce vomiting; seek medical attention immediately.

SECTION VI HEALTH INFORMATION, ACUTE AND CHRONIC

EYES: Direct contact will cause burning, tearing and redness.

SKIN EFFECTS: Prolonged or repeated skin contact can cause moderate irritation, defatting, and/or dermatitis.

INHALATION: Prolonged or repeated breathing of very high vapor concentrations may cause headaches, nausea and vomiting. Chronic overexposure in high concentrations may produce CNS depression.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

PRIMARY ROUTES OF ENTRY: Inhalation.

SYSTEMIC AND OTHER EFFECTS: Chronic overexposure to Hexane has been found to cause peripheral nerve tissue damage resulting in muscular weakness and loss of sensation in the extremities. Chronic overexposure to IPA has caused liver abnormalities, and kidney and brain damage in laboratory animals.

ELITE FILM CLEANER

SECTION VII REACTIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID: Extreme heat, sparks and open flames.

MATERIALS TO AVOID: Strong oxidizing agents, strong acids or bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur. CONDITIONS TO AVOID: NA

SECTION VIII SPILL OR LEAK PROCEDURES

PRECAUTIONS IN CASE OF RELEASE OR SPILL: Stay upwind and away from spill unless wearing appropriate protective equipment. Stop and/or contain discharge if it may be done safely. Keep all sources of ignition away; use non-sparking tools for cleanup. Ventilate area of spill and cover with inert material to reduce fumes. Keep out of drains, sewers or waterways. Contact fire authorities, notify local health and pollution control agencies, and call spill response teams if large spill.

WASTE DISPOSAL METHOD: Dispose of product in accordance with applicable local, county, state, federal regulations.

SECTION IX PERSONAL PROTECTION AND STORAGE PRECAUTIONS

RESPIRATORY PROTECTION: The use of respiratory protection depends on vapor concentrations above the time-weighted TLV. Use a respirator/gas mask with appropriate cartridges or canister (NIOSH approved, if available), or supplied air equipment, depending on airborne concentration.

PROTECTIVE GLOVES: The use of gloves which are impermeable to the specific material handled is advised to prevent irritation.

EYE PROTECTION: Safety glasses are recommended to safeguard against potential eye contact, irritation or injury.

OTHER PROTECTIVE EQUIPMENT: The availability of eye washes and safety showers in work areas is recommended.

HANDLING AND STORAGE PRECAUTIONS: Keep product containers cool, dry and away from sources of ignition. Use and store this product with adequate ventilation. Keep product containers closed when not in use.

OTHER PRECAUTIONS: Personnel should avoid inhalation of vapors. Personal contact with the product should be avoided. Containers, even those that have been emptied, may retain product residues and/or vapors. Observe all hazard precautions given in this data sheet. Vapors of this product are heavier than air and will collect in low places.

ELITE FILM CLEANER

The opinions expressed herein are those of qualified experts within the manufacturer and its suppliers. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and these opinions and the conditions of use of the product are not within the control of the manufacturer, it is user's obligation to determine the conditions of safe use of the product.



ALLIED PRESSROOM CHEMISTRY
MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER • ALLIED DAILY SCRATCH REMOVER	HEALTH HAZARD: 2
PRODUCT USE • Aqueous cleaner for lithographic plates.	FIRE HAZARD: 0
	REACTIVITY: 0
	PROTECTIVE EQUIPMENT: SC (Automatic eye wash, eyeglasses, gloves)

MANUFACTURER'S NAME
ALLIED PHOTO OFFSET SUPPLY CORP

STREET ADDRESS
2040 LEE STREET

CITY HOLLYWOOD	STATE FLORIDA	TELEPHONE 800-327-6487
-------------------	------------------	---------------------------

ZIP CODE 33020	EMERGENCY TELEPHONE NO 800-424-9300 CHEMTREC	FAX: 954-923-6462
-------------------	---	----------------------

SECTION 2: HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS NUMBER	HAZARD DATA	LOSE OF INGREDIENT (SPECIFY SPECIES)
2-Butoxyethanol*	10.0	111-76-2	ACGIH (TLV-TWA) 25PPM (Skin)	

SECTION 3: PHYSICAL DATA

PHYSICAL STATE LIQUID	ODOR AND APPEARANCE Clear, yellow/green liquid, low odor.	ODOR THRESHOLD (PPM)
VAPOR PRESSURE (MM HG) 4.0	VAPOR DENSITY (AIR=1) 1.1	EVAPORATION RATE (Boil @ 20°C = 1) 1.1
PH 12.0	SPECIFIC GRAVITY 1.03	SOLUBILITY IN WATER Comes in
		BOILING POINT (°F) 227
		MELTING POINT (°C) Liquid
		V.O.C.'s 100% by Mass 0.001 lbs per Gallon

SECTION 4: FIRE AND EXPLOSION DATA

FLAMMABILITY YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	IF YES, UNDER WHICH CONDITIONS? *
EXTINGUISHING MEDIA No specific requirements	SPECIAL FIRE FIGHTING PROCEDURES: None
FLASHPOINT (°F) AND METHOD No flash below 200 °F	UPPER FLAMMABLE LIMIT (% BY VOLUME) Unknown
	LOWER FLAMMABLE LIMIT (% BY VOLUME) Unknown
AUTOIGNITION TEMPERATURE (°C) Unknown	HAZARDOUS COMBUSTION PRODUCTS Carbon dioxide, Carbon monoxide
EXPLOSION DATA • NOT KNOWN	SENSITIVITY TO IMPACT NO
	SENSITIVITY TO STATIC DISCHARGE NO

SECTION 5: REACTIVITY DATA

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO UNDER WHICH CONDITIONS? *	CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERISATION None
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> IF SO WHICH ONE(S)?	Strong oxidizing agents.	
HAZARDOUS DECOMPOSITION PRODUCTS In contact with open flame or incandescent particles will liberate oxides of carbon and hydrocarbons.		



**ALLIED PRESSROOM CHEMISTRY
MATERIAL SAFETY DATA SHEET**

PRODUCT IDENTIFIER - ALLIED DAILY SCRATCH REMOVER

SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY
 SKIN CONTACT ■ SKIN ABSORPTION ■ EYE CONTACT ■ INHALATION □ INGESTION ■

EFFECTS OF ACUTE EXPOSURE TO PRODUCT: Inhalation - Airborne concentrations may damage upper respiratory tract. Very low vapor pressure. Eye - Will cause severe irritation, burning, redness, tearing and blurred vision. Skin - May be abraded causing rashes and sores. Ingestion can result in extreme irritation of the digestive tract, vomiting and diarrhea.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: All of the above. Overexposure to 2-Subphenanthrol has been reported to cause liver, blood and kidney abnormalities.

EXPOSURE LIMITS See section 2	IRRITANCY OF PRODUCT Light to moderate irrit.	SENSITIZATION TO PRODUCT None	CARCINOGENICITY: No ingredient identified as carcinogenic, or potentially carcinogenic by AEE, NCI or OSHA.
TERATOGENICITY None	REPRODUCTIVE TOXICITY: None	MUTAGENICITY: None	SYNERGISTIC PRODUCTS: Not known.

EMERGENCY FIRST AID PROCEDURES:
EYES: Flush with cooling water for at least 15 minutes. Seek immediate medical attention.
SKIN: Wash affected area with soap and water, rinse with vinegar or dilute acetic acid if available. Remove contaminated clothing and launder before re-use.
INHALATION: Remove to fresh air. If breathing difficulties occur, administer oxygen or artificial respiration.
INGESTION: Do not induce vomiting. Dilute by drinking water and seek immediate medical attention.

SECTION 7 - PREVENTATIVE MEASURES

GLOVES Nitrile.	RESPIRATOR AHD/MSHA jointly approved respirator where exposure exceeds TLV.	EYE (SPECIFY) Splash proof goggles or face shield
---------------------------	---	---

CLOTHING (SPECIFY)
Boots, apron, or chemical suit should be used when necessary to prevent skin contact.

ENGINEERING CONTROLS (SPECIFY, EG, VENTILATION, ENCLOSED PROCESS)
Use local exhaust or dilution ventilation as appropriate to control exposure. Allow permissible levels.

LEAK AND SPILL PROCEDURE:
Do not touch spilled material. Use precautions to prevent contamination of ground and surface waters. Remove spilled material using absorbent material such as vermiculite and transfer into closed containers for disposal. Neutralizing chemicals, dilute acids to reduce alkalinity.

WASTE DISPOSAL:
Contaminated vermiculite or porous surface must be disposed of in a permitted hazardous waste facility. Recovered liquid may be reprocessed or incinerated in a permitted hazardous waste facility. In all cases material should be disposed of in accordance with all applicable regulations.

HANDLING PROCEDURES AND EQUIPMENT:
Keep container closed when not in use. Store only in closed, properly labeled containers.

STORAGE REQUIREMENTS:
Store in a cool, dry, well ventilated area. Do not mix with strong acids.

SPECIAL SHIPPING INFORMATION:
For industrial use only. Do not re-use the container. Keep out of reach of children.

ADDITIONAL INFORMATION

SPECIFIC MEASURES: This is an industrial material and should be used by trained personnel only. Containers of this material may be hazardous even when emptied, unless containers will retain product residue. Follow all hazard warnings even after container is emptied. Do not breathe vapors, use with adequate ventilation. Avoid prolonged skin contact - wear protective gloves. Do not get in eyes - will cause severe irritation - wear protective goggles.

Proper Shipping Name: Not regulated by D.O.T.
 Hazard Class:
 Identification Number:
 Packing Group:
 Reportable Quantity:

SECTION 9 - PREPARATION AND DATE OF MSDS

PREPARED BY (GROUP, DEPARTMENT, ETC.) ALLIED PRESSROOM CHEMISTRY TECHNICAL SERVICES DEPARTMENT	PHONE NUMBER 1-800-327-3487	DATE June 1998
---	--------------------------------	-------------------

The above information is believed to be correct as of the date hereof and is based on data supplied by raw material suppliers. However, no warranty of merchantability, fitness for use, or any other warranty is expressed or is to be implied regarding the accuracy of these data, the results to be obtained from the use of the material, or the hazards connected with each use. Since the information contained herein may be applied under conditions beyond our control and with which we are unfamiliar, and since the data made available subsequent to the date hereof may suggest modifications of the information, we do not assume responsibility for the results of its use. This information is furnished on the condition that the person receiving it shall make his own determination as to the suitability of the material for his particular purpose and on the condition that he assume risk of his use thereof.



**ALLIED PRESSROOM CHEMISTRY
MATERIAL SAFETY DATA SHEET**

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER - ALLIED DAILY PLATE CLEANER

PRODUCT USE - Blend of gases, converts and cleans for cleaning lithographic printing plates.

HEALTH HAZARD: 1
FIRE HAZARD: 2
REACTIVITY: 0
PROTECTIVE EQUIPMENT: SC (thymicite gloves, fume and splash apron)

MANUFACTURER'S NAME
ALLIED PHOTO OFFSET SUPPLY CORP.

STREET ADDRESS
2040 LEE STREET

CITY HOLLYWOOD **STATE** FLORIDA **TELEPHONE** 800-327-3487

ZIP CODE 33020 **EMERGENCY TELEPHONE NO** 800-424-8000 CHEMTREC **FAX** 954-923-6482

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS NUMBER	HAZARD DATA	LOSO OF INGREDIENT (SPECIFY SPECIES)
Asphatic petroleum distillates	45.0	9052-41-3	ACGIH (TWA-TLV) 100ppm	
Aromatic petroleum distillates	18.0	64742-95-8	ACGIH (TWA-TLV) 100ppm	
This ingredient contains approximately:				
Hydrocarbons	7.0%	1116-20-7		
Chlorine	3.0%	74-72-4		
Trisubstituted benzene	10.0%	15151-13-7		
Citric acid	2.0	77-92-9		Oral, rat: 8730 mg/kg
Phosphoric acid	2.0	7664-38-2		Oral, rat: 1530 mg/kg

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE LIQUID	ODOR AND APPEARANCE Chlorine ethylene, hydrocarbon odor	ODOR THRESHOLD (PPM)		
VAPOR PRESSURE (mm Hg) At water	VAPOR DENSITY (AIR=1)	EVAPORATION RATE (Butyl acetate = 1)	BOILING POINT (°C)	MELTING POINT (°C)
2.0	0.85	1	99	None
pH	SPECIFIC GRAVITY	SOLUBILITY IN WATER	V.O.C.'s	LOWER FLAMMABLE LIMIT (% BY VOLUME)
2.0	0.85	Miscible	65% by Mass 4.5 lb per Gallon	Unknown

SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY YES ■ NO □	IF YES, UNDER WHICH CONDITIONS? *Extreme of heat, storage above flash point.	
EXTINGUISHING MEDIA CARBON DIOXIDE, DRY CHEMICAL, WATER	SPECIAL FIRE FIGHTING PROCEDURES None	
FLASHPOINT (°F) AND METHOD 155 by FCC	UPPER FLAMMABLE LIMIT (% BY VOLUME) Unknown	LOWER FLAMMABLE LIMIT (% BY VOLUME) Unknown
AUTOIGNITION TEMPERATURE (°C) Unknown	HAZARDOUS COMBUSTION PRODUCTS Carbon dioxide, Carbon monoxide and hydrocarbons	
EXPLOSION DATA * NOT KNOWN	SENSITIVITY TO IMPACT NO	SENSITIVITY TO STATIC DISCHARGE NO

SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY YES ■ NO □	IF NO UNDER WHICH CONDITIONS?	CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION None
INCOMPATIBILITY WITH OTHER SUBSTANCES YES ■ NO □ IF SO WHICH ONES?	Strong oxidizing agents, strong reducing agents, strong bases.	
HAZARDOUS DECOMPOSITION PRODUCTS In contact with cool flame or incandescent material will liberate carbon dioxide, carbon monoxide and hydrocarbons.		



ALLIED PRESSROOM CHEMISTRY
MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFIER - ALLIED DAILY PLATE CLEANER

SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY			
SKIN CONTACT #	SKIN ABSORPTION 0	EYE CONTACT #	INHALATION 0
EFFECTS OF ACUTE EXPOSURE TO PRODUCT: Irritation - This product primarily irritates the central nervous system depression. Inhalation can cause irritation of the respiratory tract, dizziness, nausea and headache. Eye - Will cause severe irritation, burning, redness, tearing and possible injury. Skin - Can cause irritation on prolonged use. Reproductive contact. Fertilization can result in reduction of the placental blood. Aspiration into the lungs can lead to pulmonary edema and chemical pneumonitis which can prove fatal.			
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: Prolonged skin contact may aggravate an existing dermatitis. Prolonged and repeated exposure to the pure solvent contained in this product has been reported to cause permanent brain and central nervous system damage.			
EXPOSURE LIMITS See section 7	IRITANCY OF PRODUCT Light to moderate risk	SENSITIZATION TO PRODUCT: None	CARCINOGENICITY: No ingredient identified as carcinogenic, or potentially carcinogenic by IARC, IARC or OSHA
TERATOGENICITY None	REPRODUCTIVE TOXICITY: None	MUTAGENICITY: None	SYNERGISTIC PRODUCTS: Not known

EMERGENCY FIRST AID PROCEDURES:
EYES: Flush with running water for at least 15 minutes. Seek medical attention.
SKIN: Wash affected area with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION: Remove victim to fresh air. Administer oxygen and/or artificial respiration if breathing difficulties occur. Seek medical attention.
INGESTION: Do not induce vomiting. Materials are an aspiration hazard, may enter lungs and cause lung damage. Dilute by drinking water and seek medical attention.

SECTION 7 - PREVENTATIVE MEASURES

GLOVES	RESPIRATOR	EYE (SPECIFY)
None for incidental, non-immersion contact	Use SCBA in emergency situations or confined areas. Respirators must be approved by NIOSH	Splash proof goggles or face shield
CLOTHING (SPECIFY): Boots, aprons, or chemical suits should be used when necessary to prevent skin contact.		

ENGINEERING CONTROLS (SPECIFY, EG, VENTILATION, ENCLOSED PROCESS):
Use local exhaust or capture ventilation as appropriate to control exposure below permissible levels.

LEAK AND SPILL PROCEDURE:
Evacuate the area. Provide maximum ventilation. Do not use to contain spill. Take precautions to prevent contamination of ground and surface waters. Recover spilled material using absorbent material such as vermiculite and sweep into closed containers for disposal.

WASTE DISPOSAL:
Contaminated vermiculite or porous surface must be disposed of in a certified hazardous waste facility. Recovered liquids may be reprocessed or incinerated in a permitted hazardous waste facility. In all cases material should be disposed of in accordance with all applicable regulations.

HANDLING PROCEDURES AND EQUIPMENT:
Keep container closed when not in use. Store only in closed, properly labeled containers. Vapors are heavier than air and will collect in low areas.

STORAGE REQUIREMENTS:
Store as COMBUSTIBLE MATERIAL. Store in a cool, dry, well ventilated area.

SPECIAL SHIPPING INFORMATION:
For industrial use only. Do not reuse the container. Keep out of reach of children.

ADDITIONAL INFORMATION

SPECIFIC MEASURES: This is an industrial material and should be used by trained personnel only. Containers of this material may be hazardous even when empty. Store containers with their products residue. Follow all hazard warnings even after container is emptied. Do not breathe vapors, use with adequate ventilation. Avoid prolonged skin contact - wear protective gloves. Do not get in eyes - will cause severe irritation - wear protective goggles. Keep away from heat, sparks and open flame.
Proper Shipping Name: Combustible liquid N.O.S. (Contains: Petroleum Distillates)
Hazard Class: 3.3
Identification Number: UN 1993
Packing Group: III
Reportable Quantity:

SECTION 9 - PREPARATION AND DATE OF MSDS

PREPARED BY (GROUP DEPARTMENT, ETC): ALLIED PRESSROOM CHEMISTRY TECHNICAL SERVICES DEPARTMENT	PHONE NUMBER: 1-800-327-8467	DATE: September 1994
--	---------------------------------	-------------------------

The above information is believed to be correct as of the date hereof and is based on data supplied by raw material suppliers. However, no warranty of merchantability, fitness for use, or any other warranty is expressed or implied regarding the accuracy of these data, the results to be obtained from the use of the material, or the hazards connected with each use. Since the information contained herein may be applied under conditions beyond our control and with which we are unfamiliar, and since the data made available subsequent to the date hereof may suggest modifications of the information, we do not assume responsibility for the results of its' use. This information is furnished on the condition that the person receiving it shall make his own determination as to the suitability of the material for his particular purpose and on the condition that he assumes risk of his use thereof.

3M General Offices

3M Center
St. Paul, MN 55144-1000
1-800-364-3577 or (612) 737-6501 (24 hours)

02-54
5285

MATERIAL SAFETY
DATA SHEET



Copyright, 1997, Minnesota Mining and Manufacturing Company. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that:
1) the information is copied in full with no changes unless prior agreement is obtained from 3M, and
2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

DIVISION: INDUSTRIAL TAPE AND SPECIALTIES DIVISION

TRADE NAME:
3M Super 77 Spray Adhesive

ID NUMBER/U.P.C.:	CS-0406-2131-3	-	-	CS-0406-6884-1	-	-
	CS-0406-7003-9	-	-	62-4437-0921-7	-	-
	62-4437-0925-8	00-21200-30091-2	62-4437-0926-6	-	-	-
	62-4437-0927-4	00-21200-25463-5	62-4437-0928-2	00-21200-25	-	-
	62-4437-0929-0	00-21200-25463-5	62-4437-0930-8	-	-	-
	62-4437-0931-6	-	62-4437-0933-2	00-21200-25	-	-
	62-4437-4030-3	00-21200-76098-3	62-4437-4830-6	00-21200-85	-	-
	62-4437-4925-4	00-21200-21210-9	62-4437-4930-4	00-21200-21	-	-
	62-4437-4933-8	00-21200-85846-8	62-4437-4935-3	-	-	-
	62-4437-4936-1	-	62-4437-9999-4	-	-	-

ISSUED: NOVEMBER 25, 1997
SUPERSEDES: MAY 6, 1997
DOCUMENT: 11-4257-9

INGREDIENT	C.A.S. NO.	PERCENT
NON-VOLATILE COMPONENTS - N.J. TRADE SECRET (T.S.) REGISTRY NO. 8449600-5776P++		
CYCLOHEXANE	110-82-7	10.0 - 20.0
2-METHYLPENTANE	107-83-5	5.0 - 15.0
ISOBUTANE	75-28-5	7 - 13
PROPANE	74-98-6	7 - 13
DIETHYL ETHER	115-10-6	7 - 13
3-METHYLPENTANE	96-14-0	3 - 7
2,3-DIMETHYLBUTANE	79-29-8	3 - 7
2,2-DIMETHYLBUTANE	75-83-2	1 - 5
HEXANE	110-54-3	1 - 1

NOTE: The components of this product are in compliance with the chemical notification requirements of TSCA.
++ rosin, synthetic polymer, resin and antioxidant. Not hazardous according to Canadian WHMIS criteria. Non-WHMIS controlled.

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REQUIREMENTS OF SECTION 313 OF TITLE III OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND 40 CFR PART 372:
CYCLOHEXANE
HEXANE

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

MATERIAL SAFETY
DATA SHEET

3M

MSDS: 3M Super 77 Spray Adhesive
NOVEMBER 25, 1997

PAGE: 2 of

2. PHYSICAL DATA

BOILING POINT: Compressed gas
VAPOR PRESSURE: Compressed gas
VAPOR DENSITY: 2.97 Air = 1
EVAPORATION RATE: 1.90 Ether = 1
SOLUBILITY IN WATER: nil
SP. GRAVITY: 0.697 Water = 1
PERCENT VOLATILE: 75 % by wt
pH: ca. 6.7
VISCOSITY: N/A
MELTING POINT: N/D
APPEARANCE AND ODOR: liquid in aerosol, light cream colored, sweet/fruity o

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: -42.00 F Y.C.C.
FLAMMABLE LIMITS - LEL: N/A
FLAMMABLE LIMITS - UEL: Flamm. Gas
AUTOIGNITION TEMPERATURE: ... N/D
EXTINGUISHING MEDIA:
Carbon dioxide, Dry chemical, Foam
SPECIAL FIRE FIGHTING PROCEDURES:
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back.
NFPA HAZARD CODES: HEALTH: 2 FIRE: 4 REACTIVITY: 0 AEROSOL STORAGE: 3
UNUSUAL REACTION HAZARD: none
OSHA FIRE HAZARD CLASS: Class 1A Flammable liquid

4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
Heat.
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
Carbon Monoxide and Carbon Dioxide, Toxic Vapors, Gases or Particulates.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Ventilate area. Extinguish all ignition sources. Cover with absorbent material. Collect using non-sparking tools. Place in a U.S. DOT-approved container.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

MATERIAL SAFETY
DATA SHEET

3M

MSDS: 3M Super 77 Spray Adhesive
NOVEMBER 25, 1997

PAGE: 3 of

5. ENVIRONMENTAL INFORMATION (continued)

RECOMMENDED DISPOSAL:
Incinerate in a permitted hazardous waste incinerator in the presence of a combustible material. Facility must be capable of handling aerosol cans. Dispose of empty cans in a sanitary landfill. Dispose of waste product in a facility permitted to accept chemical waste.

RECYCLE EMPTY AEROSOL CONTAINERS WHERE AVAILABLE.

ENVIRONMENTAL DATA:
Not determined.

REGULATORY INFORMATION:
Volatile Organic Compounds: 75 % tested per SCAQMD method 305.
Volatile Organic Compounds: ca. 4.4 lb/gal.
VOC Less H2O & Exempt Solvents: 527 gms/liter tested per SCAQMD method 305.
Hazardous Air Pollutants: < 1 % by wt (0.04 lbs. HAPS/lbs Solids).

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = D001 (Ignitable)

EPCRA HAZARD CLASS:
FIRE HAZARD: Yes PRESSURE: Yes REACTIVITY: No ACUTE: Yes CHRONIC: Yes

6. SUGGESTED FIRST AID

EYE CONTACT:
Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:
Flush skin with large amounts of water. If irritation persists, get medical attention.

INHALATION:
Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

IF SWALLOWED:
Do not induce vomiting. Drink two glasses of water. Call a physician.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:
Avoid eye contact with vapor, spray, or mist. Wear safety glasses with side shields.

SKIN PROTECTION:
Avoid prolonged or repeated skin contact.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

MATERIAL SAFETY
DATA SHEETMSDS: 3M Super 77 Spray Adhesive
NOVEMBER 25, 1997

PAGE: 4 of

7. PRECAUTIONARY INFORMATION (continued)

VENTILATION PROTECTION:

Do not use in a confined area or areas with little or no air movement. If exhaust ventilation is not adequate, use appropriate respiratory protection. Provide ventilation adequate to control vapor concentrations below recommended exposure limits and/or control spray or mist.

RESPIRATORY PROTECTION:

Avoid breathing of vapors, mists or spray. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask organic vapor respirator.

PREVENTION OF ACCIDENTAL INGESTION:

Do not ingest.

RECOMMENDED STORAGE:

Store at temperatures below 120 degrees F (49 degrees C). Store out of direct sunlight. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Aerosol container contains flammable gas under pressure. Keep away from heat, sparks, open flame, and other sources of ignition. Extremely flammable liquid and vapor. Do not pierce or burn container, even after use. No smoking while handling this material. Avoid static discharge.

INGREDIENTS	EXPOSURE LIMITS		TYPE	AUTH	SKIN*
	VALUE	UNIT			
NON-VOLATILE COMPONENTS - N.J.					
TRADE SECRET (T.S.) REGISTRY NO. 04499600-5776P++	NONE	NONE	NONE	NONE	
CYCLOHEXANE	300	ppm	TWA	ACGIH	
CYCLOHEXANE	300	ppm	TWA	OSHA	
2-METHYLPENTANE	500	ppm	TWA	ACGIH	
2-METHYLPENTANE	1000	ppm	STEL	ACGIH	
ISOBUTANE	NONE	NONE	NONE	NONE	
PROPANE	1000	ppm	TWA	OSHA	
PROPANE	NONE	NONE	NONE	ACGIH	
	Simple asphyxiant				
DIMETHYL ETHER	1000	ppm	TWA	CMRG	
DIMETHYL ETHER	500	ppm	TWA	AIHA	
DIMETHYL ETHER	942	mg/m3	TWA	AIHA	
3-METHYLPENTANE	500	ppm	TWA	ACGIH	
3-METHYLPENTANE	1000	ppm	STEL	ACGIH	
2,3-DIMETHYLBUTANE	500	ppm	TWA	ACGIH	
2,3-DIMETHYLBUTANE	1000	ppm	STEL	ACGIH	
2,2-DIMETHYLBUTANE	500	ppm	TWA	ACGIH	

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

MATERIAL SAFETY
DATA SHEETMSDS: 3M Super 77 Spray Adhesive
NOVEMBER 25, 1997

PAGE: 5 of

7. PRECAUTIONARY INFORMATION (continued)

INGREDIENTS	EXPOSURE LIMITS		TYPE	AUTH	SKIN*
	VALUE	UNIT			
2,2-DIMETHYLBUTANE	1000	ppm	STEL	ACGIH	
HEXANE	50	ppm	TWA	ACGIH	
HEXANE	50	ppm	TWA	OSHA	

* SKIN NOTATION: Listed substances indicated with "Y" under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- AIHA: American Industrial Hygiene Assoc. Workplace Environmental Exposure
- OSHA: Occupational Safety and Health Administration
- CMRG: Chemical Manufacture Recommended Guidelines
- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

Mild Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, and itching.

INHALATION:

Intentional concentration and inhalation may be harmful or fatal.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Kidney Effects: signs/symptoms can include reduced urine volume, blood in urine and back pain.

Liver Effects: signs/symptoms can include yellow skin (jaundice) and tenderness of upper abdomen.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

3M General Office

3M Center
St. Paul, MN 55144-1000
1-800-364-3577 or (612) 737-6501 (24 hours)

02-54
3290

MATERIAL SAFETY
DATA SHEET

3M

MSDS: 3M Super 77 Spray Adhesive
NOVEMBER 25, 1997

PAGE: 6 of

B. HEALTH HAZARD DATA (continued)

Peripheral Neuropathy: signs/symptoms can include tingling of extremities, incoordination, numbness, weakness and tremors.

IF SWALLOWED:

Ingestion is not a likely route of exposure to this product.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Ingestion may cause:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

SECTION CHANGE DATES

ENVIRON. DATA SECTION CHANGED SINCE MAY 6, 1997 ISSUE

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the MSDS available directly from 3M.

TRAK Environmental Group
3637 B Arundell Circle
Ventura California 93003

Telephone 805 650 5333
Facsimile 805 650 7213

TRAK

November 20, 2004

Mr. Guy Devorris
Affordable Housing Alliance
2044 Overland Avenue
Los Angeles, California 90025

Report of Environmental Investigation, 465 West Los Feliz Road and 434-450 Fernando Court, Glendale, California

Dear Mr. Devorris:

TRAK Environmental Group, Inc., (TRAK) is providing this *Report of Environmental Investigation* for the commercial property located at 465 West Los Feliz Road and 434-450 Fernando Court, in Glendale, California (Figure 1). This project included geophysical investigation, aerial photograph review, and sampling of the subsurface soils in areas with potential environmental concerns, as previously identified in the *Phase I Environmental Site Assessment* (EP Associates, July 14, 2004). The purpose of the investigation was twofold, including 1) geophysical reconnaissance to evaluate the possible presence of USTs in open areas reported to have formerly been UST locations, and 2) evaluation of subsurface soils for the possible presence of hazardous chemicals in areas of potential concern.

Geophysical investigation and soil sampling has verified the presence of a large subsurface anomaly indicative of a buried UST, located in the open lot adjacent to the intersection of Gardena Avenue with West Los Feliz Road, and southeast of Building 6. The anomaly has areal dimensions of about 12 feet by 25 feet, is approximately four feet beneath the asphalt pavement, and is likely to be the 10,000 gallon UST permitted in the 1950s by Pratty Company, at the address location of 435 West Los Feliz Road.

Soil sample results for all the evaluated areas generally verified there to be no significant evidence of soil impact. There are localized areas of shallow soil with detectable concentrations of TPH (typically oil-range hydrocarbons) and slightly elevated metals concentrations (typically lead and zinc). For evaluation of potential risk, the analyte concentrations in soils were compared to typical regulatory criteria, and verified to be significantly less than EPA Region 9 residential PRGs, TTLC/STLC limits, and/or RWQCB Maximum Soil Screening Levels.

Further discussion and documentation regarding the investigation is provided in the following sections of this *Report*. This *Report* presents a brief review of the site background and investigation plan, a listing of the project tasks, a summary of the investigative methods, and discussion of results.

BACKGROUND

Setting

As reported by the *Phase I Environmental Site Assessment* (EP Associates, July 14, 2004), the subject property is approximately 88,000 square feet of land that is improved with 6 commercial buildings. The subject property is bounded on the north by Fernando Court, on the east by Gardena Avenue, on the south by West Los Feliz Road, and on the west by the Southern Pacific railroad tracks (Figure 2). The property has been historically referenced to consist of four parcels, Parcel 1 through Parcel 4.

Parcel 1 is located on the southwest portion of the property, bounded by the Southern Pacific Railroad tracks and West Los Feliz Road, and is improved with one two-story brick building (Building 1), and one single-story building (Building 2); the general area is depicted in Figure 6. Building 1 is divided into four units, which are occupied by Jamai Spicehouse, Inc. (spice distribution warehouse), Art Construction Studio (construction and design studio), Southland Bread Distribution (bread distribution warehouse), and Los Angeles Daily News (newspaper packaging and distribution). Building 2 is used for offices of Byron's Auto (automobile repair), and offices of M & D Supply (plumbing). The southeast portion of Parcel 1 includes an elevated loading dock and paved yard.

Parcel 2 is located on the southeast portion of the property, bounded by Gardena Avenue and West Los Feliz Road, and is improved with three single-story buildings. Building 3 is used as a parts warehouse for M & D Supply. Building 5 is divided into two units used for storage; one for Patrick Budkowski, and one for Ray Pierce. Building 6 is occupied by American Bakery Products, a bread distribution warehouse; and Art and Oils for Less, a retail oil painting shop. The southwest portion of Parcel 2 includes an elevated loading dock and paved yard (south of Building 3, and west of Building 6); and this area is designated for *Report* purposes the South-Central Parcel Area (Figure 5). The eastern portion of Parcel 2 includes a paved yard fronting onto Gardena Avenue, and this area is designated for *Report* purposes the Southeastern Parcel Area (Figure 4).

Parcel 3 is located on the northwest portion of the property, bounded by the Southern Pacific Railroad tracks and Fernando Court, and includes a storage room associated with M & D Supply, a workshop overhang and paved yard used as work space by Byron's Auto, and a workshop overhang used as work space by Pyramid Marble. Freight containers used by M & D Supply occupy the eastern portion of Parcel 3, which also includes a paved storage yard area. This area is designated for *Report* purposes the Northwestern Parcel Area (Figure 7).

Parcel 4 is located on the northeast portion of the property, bounded by Gardena Avenue and Fernando Court, and includes a two-story concrete tilt-up building (Building 4) occupied by Glendale Rotary Offset Printing Company, (printing services). This general area, including the paved parking area south of Building 4, is depicted in Figure 3.

Areas of Potential Environmental Concern

The *Phase I Environmental Site Assessment* reported that chemical substances such as petroleum hydrocarbons, solvents, waste oil, and other typical building maintenance compounds were stored in various size containers throughout the subject property. In general,

there was no visual evidence of significant chemical release at the subject property, with the exception of two locations, including oil-stained pavement at Byron's Auto (compressor/drum storage area; Figure 7), and south of Building 1 (decommissioned air compressor; Figure 6).

There is an indirect waste receptor drain/container located on the floor inside the film development area of the Glendale Rotary Offset Printing Company building (Building 4). Silver-containing waste from photochemical processing is temporarily stored in the indirect waste receptor, which serves as a small sump (Figure 3).

Two gasoline service stations were present on the subject property in the past. One service station, which operated from approximately 1930 until 1950, was located on the southeast portion of Parcel 2 (east and southeast of Building 6), and is referenced by the address of 435 West Los Feliz Road. Records indicate that in the early 1950s, subsequent to the service station occupancy, this address location was the site of a garbage collection and rubbish disposal company. This information was corroborated by a permit record indicating that Pratty Company, a "Rubbish Pick Up Service", installed a 10,000-gallon UST at this location. This area is designated for *Report* purposes the Southeastern Parcel Area as depicted in Figure 4.

Another service station operated from approximately 1930 until 1933, and was located on the southwest portion of Parcel 2 (west and southwest of Building 6) and is referenced by the address of 447-449 West Los Feliz Road. This area is designated for *Report* purposes the South-Central Parcel Area as depicted in Figure 5.

Records reference at least two underground storage tanks (USTs) at the northwest portion of Parcel 3 (450 Fernando Court). These included one 1,000-gallon UST installed in 1950 for Quality Kol-Pak, removed in 1962; and one 1,000-gallon UST referenced by a 1975 permit for maintenance, with the notation for removal of the UST by January 1976. This area is designated for *Report* purposes the Northwestern Parcel Area as depicted in Figure 7.

INVESTIGATION PLAN

Based on the previous Phase I ESA investigation, there was reported to be a potential for USTs to exist at three locations on the subject property; the Southeastern Parcel Area (435 West Los Feliz Road; Figure 4), the South-Central Parcel Area (447-449 West Los Feliz Road; Figure 5), and the Northwestern Parcel Area (450 Fernando Court; Figure 7). There are also areas with the potential for chemical impact to subsurface soils, including oil-stained floor areas or soil surfaces, areas of solvent use, and a silver-waste collection area.

It was recommended to evaluate the areas with the potential for UST impacts by a combination of geophysical investigation, review of aerial photographs, and subsurface soil sampling. UST impacts may be due to either the actual presence of a UST that would require removal and cleanup, and/or due to residual contamination associated with a former UST at the location. The geophysical investigation and aerial photograph review was intended to aid in location UST(s) that may still exist at the site; and subsurface sampling was planned to follow-up on geophysical indications of possible UST locations, and evaluate the soil conditions for the potential of environmental impairment.

It was also recommended to evaluate other reported areas with the potential for chemical impact to subsurface soils, by subsurface soil sampling. These areas included oil-stained floor areas or soil surfaces (Byron's Auto and an area of a decommissioned air compressor located south of Building 1), areas of solvent use at Glendale Rotary Offset Printing Company (Building 4) and Byron's Auto (solvent tank), and a silver-waste collection area in the film development area at Glendale Rotary Offset Printing Company (Building 4). In the paved lot south of Glendale Rotary Offset Printing Company (Building 4) were noted two concrete pad areas that were used for drum storage, and sample locations were positioned to evaluate the soils in proximity to the pads.

In summary, the areas for evaluation included:

- UST(s) associated with the former service station and the rubbish collection company located at 435 West Los Feliz Road (Southeastern Parcel Area; Figure 4).
- UST(s) associated with the former service station located at 447-449 West Los Feliz Road (South-Central Parcel Area; Figure 5).
- A UST potentially located at 450 Fernando Court (Northwestern Parcel Area; Figure 7).
- Oil stained areas at Byron's Auto (Figure 7), proximity to a compressor located south of Building 1 (Figure 6), and proximity to a compressor located in the dock area of Building 4 (Figure 3).
- Various solvent or chemical use areas throughout Glendale Rotary Offset Printing Company (Figure 3) and Byron's Auto (Figure 7).
- A silver waste collection area at Glendale Rotary Offset Printing Company (Figure 3).
- Drum storage areas in the lot south of Building 4 (Figure 3).

The general tasks for implementation of the plan are described in the following scope of work.

SCOPE OF WORK

UST Investigation

Geophysical assessment for possible UST locations was conducted at three areas on the property, including the open lot south of Building 4 (Figure 3), the Southeastern Parcel Area (Figure 4) and the South-Central Parcel Area (Figure 5). Previous geophysical assessment (EP Associates, July 14, 2004) had been conducted at the Northwestern Parcel Area except for the northern site perimeter, and this perimeter area was further evaluated by subsurface soil sampling (Figure 7). Aerial photographs prior to 1952 were reviewed to ascertain locations of buildings and facilities associated with possible service stations and/or UST locations. After review of the geophysical data and aerial photographs, locations in these areas were selected for subsurface soil investigation by direct-push probe technology. Direct-push probes were spaced on approximate 10- to 15-foot centers in the areas of geophysical indications of buried metallic objects or unknown backfill; probes were also be positioned at areas of reported UST locations, augmented by the aerial photograph review.

Tasks conducted are summarized:

1. Conducted operations in accordance with a site-specific Health and Safety Plan (HASP), and in conformance with Standard Operating Procedures (SOP) included as Attachment A.
2. Reviewed aerial photographs (years of 1928, 1940, 1956, 1965, 1976, 1989, 1994, and 2002), and Sanborn maps (years of 1908, 1925, and 1950) to evaluate the site for locations of former service stations, facilities, and/or UST locations.
3. Conducted geophysical reconnaissance of three areas (Lot south of Building 4, Southeastern, and South-Central Parcel Areas) by ground penetrating radar (GPR), electromagnetic induction, and magnetic intensity in the accessible areas, to evaluate the possible existence of the former USTs.
4. Utilized the results of the geophysical investigation and aerial photograph review to select locations for 34 direct-push probes at the locations described previously, and summarized below. Conducted probes to depths of 10 feet below grade, as summarized below, and collected three samples from each probe for possible chemical analysis, as summarized on the following page.

<u>Location</u>	<u>Borings</u>	<u>Sample Depths</u>	<u>Number of Samples</u>	
			<u>Collected</u>	<u>Analyzed</u>
Southeastern Parcel	17	2, 4, 6, 10	48	29
South-Central Parcel	8	2, 6, 10	24	17
Northwestern Parcel	9	2, 6, 10	27	18
Total	34		99	64

5. Collected soil samples from the borings and depths indicated above. Typically, two samples from each boring were submitted for chemical analysis, as summarized in the preceding table.
6. The soil samples were capped, sealed, labeled, and chilled prior to transportation to American Scientific Laboratories LLC, a California state certified laboratory under chain-of-custody procedures. Analytical methods included any one or more of the following: TPH gasoline-range hydrocarbons by EPA Method 8015m or EPA Method 8260B, TPH diesel-range and heavy oil-range hydrocarbons by EPA Method 8015m, VOCs by EPA Method 8260B, and CCR Title 22 TTLC Metals by EPA Method 6010B/7470A.
7. At sampling completion, the borings were backfilled with grout and surface patched to match existing grade.
8. Decontamination rinsate water from the boring activities was stored temporarily onsite in DOT approved steel drums pending receipt of analytical results, for transport from the site to an appropriate recycling/disposal facility.
9. At the conclusion of each day of field operations a project professional evaluated all pertinent field data including Chains-of-Custody, field reports, soil sampling procedures, and equipment calibration documentation to ensure strict adherence to established field protocol and provide overall project quality control.

Other Areas of Potential Impact

Subsurface soil assessment was conducted on several portions of the property, including oil stained areas at Byron's Auto and at a location of a compressor located south of Building 1, solvent use areas throughout Glendale Rotary Offset Printing Company and Byron's Auto, a silver waste collection area at Glendale Rotary Offset Printing Company, and drum storage areas in the lot south of Building 4. Locations in these areas were selected for subsurface soil investigation by direct-push probe technology and hand-auger.

Tasks conducted are summarized:

1. Conducted operations in accordance with a site-specific Health and Safety Plan (HASP), and in conformance with Standard Operating Procedures (SOP) included as Attachment A.
2. Selected locations for 3 direct-push probes and 7 hand auger borings at the locations described previously, and summarized below. Conducted probes to depths of 10 feet below grade, and hand auger borings to depths of 1 to 7 feet below grade as summarized below, and collected one to three samples from each boring for possible chemical analysis, as summarized below.

Location	Borings	Sample Depths	Number of Samples	
			Collected	Analyzed
Oil Stains, Compressor	3	1, 4, 7	5	4
Solvent Storage, Use	3	1, 3, 4, 5	6	4
Silver Waste	1	1, 5	2	2
Drum Storage	3	2, 6, 10	9	8
Total	10		22	18

3. Collected soil samples from the borings and depths indicated above. One to three samples from each boring were submitted for chemical analysis, as summarized in preceding table.
4. The soil samples were capped, sealed, labeled, and chilled prior to transportation to American Scientific Laboratories LLC, a California state certified laboratory under chain-of-custody procedures. Analytical methods included any one or more of the following; TPH gasoline-range hydrocarbons by EPA Method 8015m or EPA Method 8260B, TPH diesel-range and heavy oil-range hydrocarbons by EPA Method 8015m, VOCs by EPA Method 8260B, and CCR Title 22 TLLC Metals by EPA Method 6010B/7470A.
5. At sampling completion, the borings were backfilled with grout and surface patched to match existing grade.
6. Decontamination rinse water from the boring activities was stored temporarily onsite in DOT approved steel drums pending receipt of analytical results, for transport from the site to an appropriate recycling/disposal facility.
7. At the conclusion of each day of field operations a project professional evaluated all pertinent field data including Chains-of-Custody, field reports, soil sampling procedures, and equipment calibration documentation to ensure strict adherence to established field protocol and provide overall project quality control.

FIELD OPERATIONS

Geophysical Survey

A geophysical survey utilizing electromagnetic induction, magnetic field intensity, and ground penetrating radar (GPR) was completed on October 22, 2004. The area surveyed included the open paved lot south of Building 4 (Figure 3), the open paved area of the Southeastern Parcel Area (Figure 4), and the open paved area of the South-Central Parcel Area (Figure 5). These areas are also depicted in Figures 1, 2, 3, 4, and 6 of the Geophysical Investigation report included in Attachment B.

Magnetic equipment utilized in this investigation included a Geometrics G858 cesium vapor magnetic gradiometer (G858); and the electromagnetic (EM) survey was conducted with Geonics EM61 Bottom Coil instrumentation, a Fischer TW-6 EM metal detector and Radio Detection RD400 EM utility locator. Typically, the investigation equipment operates by inducing a magnetic field in the subsurface, and the magnetic field intensity survey measures the natural magnetic field in the ground. Buried objects are detectable by both of these investigative methods as anomalies in the magnetic field.

The GPR survey was conducted with a Geophysical Survey Systems Inc., SIR-10B system transmitter with 400MHz antenna that induces very high frequency electromagnetic pulses into the ground, which reflect from measurable contrasts in subsurface electrical properties and are digitized to display anomalies. The geophysical survey covered an area of approximately 10,650 square feet, and consisted of a series of traverses on 5-foot spacing that were perpendicular to the long axis of the search area, with control points for measurement at 10-foot centers. The areas of investigation are depicted in Figures 1, 2, 3, 4, and 6 of the Geophysical Investigation report included in Attachment B.

The Geophysical Investigation report included in Attachment B includes color-enhanced contour maps of EM-61 bottom coil response (Figure 3) and vertical magnetic gradient (Figure 4), for the combined area of the lot south of Building 4 and the Southeastern Parcel Area, and a color-enhanced contour map of EM-61 bottom coil for the South-Central Parcel Area is presented as Figure 6. The coordinates shown on these figures reference the relative geophysical coordinate system in Figure 1 and 2 (Attachment B). The color bar indicates the amplitude of the measured quantity with the magenta and cyan colors representing high and low amplitudes, respectively. The light orange, yellow and light green colors indicate average background values of the measured quantity. Total field magnetic and EM-61 top and differential response were also acquired. These data are not presented as they did not provide additional information and were, therefore, considered redundant. Contour maps of these data are, however, retained in project files.

Soil Investigation

On October 22 and October 25, 2004, project professionals conducted direct-push borings B1 through B3, C1 through C17, D1 through D8, and F1 through F9 at the locations depicted on Figures 3, 4, 5, and 7; and hand-augered soil borings A1 through A4, E1, F10 and F11 at the locations depicted on Figures 3, 6, and 7.

All field operations were conducted in accordance with Standard Operating Procedures, a copy of which is included as Attachment A. Soil samples were collected by driving a stainless steel sampler lined with sampling tubes into undisturbed soil below the probe or auger depth. Soil samples for chemical analysis were capped, sealed, labeled, and chilled prior to transportation under chain-of-custody procedures to American Scientific Laboratories, LLC (ASL), a California state-certified laboratory under chain-of-custody procedures. Analytical methods included any one or more of the following: TPH gasoline-range hydrocarbons by EPA Method 8015m or EPA Method 8260B, TPH diesel-range and heavy oil-range hydrocarbons by EPA Method 8015m, VOCs by EPA Method 8260B, and CCR Title 22 TTLC Metals by EPA Method 6010B/7470A.

The supervising project professional conducting the investigation examined and classified the augered soils in accordance with the Unified Soil Classification System. The soils encountered during this investigation generally consisted of silt, clayey silt and sandy silt to depths of about 5 feet bgs or more, with silty sand, sand and gravelly sand at depths of about 10 feet bgs. No groundwater was encountered. Borehole logs are included as Attachment C.

No odor or staining indicative of possible petroleum contamination was reported. Field soil vapor measurements were made at each sample depth, from each boring location using a hand-held photo-ionization detector (PID). These measurements did not indicate any detectable vapor concentrations at the boring locations.

INVESTIGATION RESULTS

Geophysical Survey

The geophysical survey detected three significant anomalies (A1, A2, and A3) in the Southeastern Parcel Area (address location 435 West Los Feliz Road), as depicted in Figure 4. A combined interpretation of the geophysical data of this area is also presented in Figure 1 of the Geophysical Investigation report (Attachment B).

Anomaly A1 has dimensions of approximately 12 feet wide by 25 feet long, and is centered about 15-20 feet east of the southeast corner of Building 6 (Figure 4); with the geophysical coordinates 12E, 25N as depicted in Figure 1 of Attachment B. GPR data indicates the source of this anomaly is approximately four feet beneath the asphalt (Figure 5 of Attachment B). The EM, magnetic, and GPR responses are consistent with a large UST.

Anomaly A2 is a small metallic object (2 feet by 3 feet) and is buried directly beneath the asphalt pavement. Due to the close proximity of a small concrete pad on the pavement surface at this location, the anomaly may have been associated with a former pump island. The anomaly does not have the geophysical characteristics of a UST.

Anomaly A3 has approximate areal dimensions of 11 feet by 7 feet and is buried approximately three feet below the surface (Figure 5 of Attachment B). The source of this anomaly is uncertain but could be a very small UST, buried utility vault, or abandoned piping.

The South-Central Parcel Area (Figure 5) has several buried pipes, but no anomalies characteristic of USTs were observed in the data. The combined interpretation of the geophysical data of this area is presented in Figure 2 of Attachment B.

In the survey areas, many anomalies in the magnetic and EM-61 data were field-checked to determine if a source of metal at the surface caused the anomaly. A number of surface metallic features, such as the building, fences, reinforced concrete, and vehicles caused anomalies in the geophysical data. These anomalies are labeled as "SM" on the contour maps of the Geophysical Investigation report (Attachment B).

Soil Investigation

Soil analytical results are presented in Tables 1, 2, 3, 4, and 5 of this Report, and laboratory reports with chains-of-custody are included in Attachment D. The analytical results are discussed in the following paragraphs, summarized for each of the general areas of investigation.

Building 4 Subsurface

Soil sampling in Building 4 (Glendale Rotary Offset Printing Company) included solvent or chemical storage/use areas adjacent to the printing press equipment (sample A1) and in the loading dock area (A4), a silver waste collection area (sample A2), and a location in proximity to a compressor on the loading dock (A3). Sample locations are depicted in Figure 3, and analytical results are presented in Table 1 (TPH, VOCs) and Table 5 (TTLC Title 22 Metals).

Soil samples at these locations were generally non-detect for TPH and VOCs, with only one sample reporting very low concentrations of TPH oil-range hydrocarbons (74 mg/kg) at the 4-foot depth near the printing press (sample A1). Chemical analysis for CCR Title 22 Metals indicated slightly elevated concentrations of lead (85.8 mg/kg and 91.7 mg/kg) at the 4- to 5-foot depths at two locations (A1 and A2). Zinc concentrations at locations A1 and A2 were also reported to be slightly elevated, and other metal analytes were within the range typically associated with natural background conditions.

The sample results indicate that soils in the 4- to 5-foot depths under the building may contain low concentrations of lead, zinc, and oil wastes associated with former site uses prior to construction of the present building. The results do not indicate evidence of impact by the building's present operations, including the collection/processing of silver wastes.

For evaluation of potential risk, the analyte concentrations in soils were compared to criteria including the Preliminary Remediation Goals (PRGs) reported for the residential setting by United States Environmental Protection Agency, Region 9 (EPA Region 9), and TTLC/STLC limits; and also the Maximum Soil Screening Levels established by the Regional Water Quality Control Board (RWQCB), Los Angeles Region (May, 1998). For the samples analyzed, the metal concentrations are significantly less than EPA Region 9 residential PRGs, and TTLC/STLC limits. The TPH concentrations are significantly less than RWQCB Maximum Soil Screening Levels.

Lot South of Building 4

Soil sampling in the lot south of Building 4 included locations at two concrete pad areas that were used for drum storage. A drum storage area along the south wall of Building 4 was evaluated by boring B1, and the drum storage area along the east wall of Building 5 was evaluated by borings B2 and B3. Sample locations are depicted in Figure 3, and analytical results are presented in Table 1.

Soil samples at these locations were all non-detect for TPH and VOCs.

Southeastern Parcel Area

Soil sampling in this area was conducted to evaluate the possible presence of USTs associated with either of two former uses of this parcel, including 1) the former service station referenced by the address of 435 West Los Feliz Road, which operated from approximately 1930 until 1950, and 2) the garbage collection and rubbish disposal company that occupied the site in the early 1950s, corroborated by a permit record indicating that Pratty Company, a "Rubbish Pick Up Service", installed a 10,000-gallon UST at this location.

Review of a Sanborn (Sanborn Library, LLC) map for the year 1950 verifies the location of a small service station building (435 West Los Feliz Road) at a position that was to become the southeastern parcel corner adjacent to Gardena Avenue, after extension of Gardena Avenue. The 1956 aerial photograph (at the time of Gardena Avenue extension and creation of West Los Feliz Road underpass) reveals a larger building at the position of the former service station building, which is assumed to be occupied by the rubbish company. Significant in both the Sanborn map and the aerial photograph is a vacant portion of the parcel, immediately west of the service station/rubbish company building and east of Building 5. This vacant portion of the parcel was assumed to be the site of former USTs.

The geophysical survey verified an anomaly (Anomaly A1) to be in the center of this vacant portion of the parcel. As previously described, Anomaly A1 has dimensions of approximately 12 feet wide by 25 feet long, and is centered about 15-20 feet east of the southeast corner of Building 6 (Figure 4). GPR data indicates the source of this anomaly is approximately four feet beneath the asphalt and the geophysical responses are consistent with a large UST.

A soil sampling grid was established to verify the presence of a possible UST in this area, with sample locations C5, C8, C9, C10, C11, C12, C13, and C14 positioned at Anomaly A1. Sample locations C1, C2, C3, C4, C6, and C7 were positioned to evaluate the possible presence of underground piping associated with a possible dispenser location at Anomaly A2, and sample locations C15, C16, and C17 were positioned to evaluate soils located between the former service station building and West Los Feliz Road. Sample locations are depicted in Figure 4, and analytical results are presented in Table 2 (TPH, VOC) and Table 5 (TTLT Title 22 Metals).

Soil boring locations C5, C9, and C12 all met refusal at depths of about 4 feet bgs, indicating the presence of a large buried mass, probably a steel tank. The length of this mass indicated by the 3 borings (at least 20 linear feet) and the dimensions of the anomaly are consistent with a tank size of 10,000 gallons. It is likely that this is the location of the 10,000 gallon UST permitted in the 1950s by Pratty Company.

Soil sample analytical results at the anomaly (Anomaly A1) verify the probable location of the UST, and indicate relatively insignificant soil impact from TPH, VOCs, or metals. One soil sample reports low concentrations of TPH oil-range hydrocarbons (438 mg/kg) and the VOC tetrachloroethene (35 ug/kg) in soils at the depth of refusal in location C12 (on top of the probable UST); all other nearby soil samples are non-detect for TPH and VOCs. CCR Title 22 Metals analysis of the three soil samples collected at the depth of refusal above the probable UST (locations C5, C9, and C12) reported elevated zinc concentrations in sample C5, a probable indication of corrosion inhibitor UST cladding.

Soil sample analytical results in the area of a possible former dispenser and/or underground piping (vicinity of Anomaly A2) reported no soil impact from TPH or VOCs. CCR Title 22 Metals analysis of shallow soils south of Anomaly A2 reported elevated lead concentrations (115 mg/kg) in sample C7, with other metal concentrations in the range typically associated with natural background conditions.

Soil sample analytical results in the area south of the former service station building reported low concentrations of TPH oil-range hydrocarbons at two locations C15 (761 mg/kg at 6 feet bgs) and C16 (113 mg/kg at 2 feet bgs), with trace TPH diesel concentrations at location C15 (27 mg/kg at 6 feet bgs).

For evaluation of potential risk, the analyte concentrations in soils were compared to criteria previously described. For the samples analyzed, the metal concentrations are significantly less than EPA Region 9 residential PRGs, and TTLT/STLC limits, and the TPH concentrations are significantly less than RWQCB Maximum Soil Screening Levels.

South-Central Parcel Area

Soil sampling in this area was conducted to evaluate the possible presence of USTs associated with a former use of this parcel as a service station referenced by the address of 447-449 West Los Feliz Road, which operated from approximately 1930 until 1933.

Review of a Sanborn (Sanborn Library, LLC) map for the year 1925 verifies the location of a small store (447-449 West Los Feliz Road) bordering on West Los Feliz Road. The 1928 aerial photograph reveals a smaller building on the front portion of the lot (adjacent to West Los Feliz Road), and a larger building at the rear. This smaller building at the front of the parcel was assumed to be the site of the former service station.

The geophysical survey reported no anomalies in the portion of the parcel formerly occupied by the smaller building at the front of the lot (to a distance of about 60 to 70 feet northward of West Los Feliz Road). A soil sampling grid was established to verify the absence of a possible UST in this area, with sample locations D1 through D8 positioned to evaluate the open area west-southwest of Building 6. Sample locations are depicted in Figure 5, and analytical results are presented in Table 3 (TPH, VOCs) and Table 5 (TTLT Title 22 Metals).

Soil samples at these locations were non-detect for all TPH analytes, and one location reported low concentrations of the VOC tetrachloroethene (11 ug/kg) at the 2-foot depth. Due to the era of the reported service station (1930-1933), it is unlikely that the trace tetrachloroethene presence is evidence of any soil impact associated with the former service station. CCR Title

TRAK

22 Metals analysis of shallow soils (2 feet bgs) west of the former store structure reported elevated lead (97.1 mg/kg) and zinc (486 mg/kg) concentrations in sample D4, with other metal concentrations in the range typically associated with natural background conditions.

For evaluation of potential risk, the analyte concentrations in soils were compared to criteria previously described. For the samples analyzed, the metal concentrations are significantly less than EPA Region 9 residential PRGs, and TLLC/STLC limits; and the trace VOC concentration is significantly less than RWQCB Maximum Soil Screening Levels, and all other TPH and VOC results are non-detect.

Compressor at Building 1

Soil sampling was conducted at the location (E1) of a decommissioned compressor, in a narrow walkway south of Building 1. The sample location is depicted in Figure 6, and analytical results are presented in Table 3.

The soil sample at this location reported trace TPH oil-range hydrocarbon concentrations (60 mg/kg) and was non-detect for TPH diesel-range hydrocarbons and VOCs. For evaluation of potential risk, the analyte concentrations in soils were compared to criteria previously described, and the trace TPH concentration is significantly less than RWQCB Maximum Soil Screening Levels.

Northwestern Parcel Area

Soil sampling in this area was conducted to evaluate the possible presence of USTs in the perimeter area of the parcel not previously evaluated by geophysical investigation (EP Associates, July 14, 2004). Records reference at least two underground storage tanks (USTs) associated with former business activities in the Northwestern Parcel Area (450 Fernando Court). These included one 1,000-gallon UST installed in 1950 for Quality Kol-Pak, removed in 1962; and one 1,000-gallon UST referenced by a 1975 permit for maintenance, with the notation for removal of the UST by January 1976. This area is depicted in Figure 7.

Review of a Sanborn (Sanborn Library, LLC) map for the year 1950 verifies the location of multiple buildings associated with the Quality Kol-Pak facility, with open parking and/or access areas located along the north margin of the parcel. The 1956 and 1985 aerial photographs verify the open areas in the northern portion of the parcel, with a planter area located near the northwestern corner. Previous geophysical investigation (EP Associates, July 14, 2004) in the open areas of the Northwestern Parcel Area evaluated most of the parcel except for the perimeter areas. The northern perimeter area, including the former planter area, was assumed to be the most probable location for remaining USTs not otherwise evaluated.

A soil sampling grid was established to verify the absence of a possible UST in this perimeter area, with sample locations F1 through F9 positioned to evaluate the northern perimeter, planter area, and driveway. Sample locations are depicted in Figure 7, and analytical results are presented in Table 3 (TPH, VOCs).

Soil samples at these locations were all non-detect for TPH and VOCs, and there was no evidence for the presence of USTs in the areas evaluated.

TRAK

At two other locations on this parcel (Figure 7), hand auger sampling was conducted to evaluate oil-stained pavement at the compressor/drum storage area of Byron's Auto compressor/drum storage area (F10), and an area of solvent usage (location F11).

The shallow soil sample (1 foot bgs) at the compressor/drum storage area location reported low TPH oil-range hydrocarbon concentrations (362 mg/kg) and was non-detect for TPH diesel-range hydrocarbons and VOCs; the deeper sample (4 feet bgs) was all non-detect. The shallow soil sample (1 foot bgs) at the solvent usage area location reported trace TPH oil-range hydrocarbon concentrations (61 mg/kg), and trace volatile hydrocarbons ethylbenzene (2 ug/kg) and xylenes (14 ug/kg).

For evaluation of potential risk, the analyte concentrations in soils were compared to criteria previously described, and the trace TPH and volatile hydrocarbon concentrations are significantly less than RWQCB Maximum Soil Screening Levels.

SUMMARY AND RECOMMENDATIONS

Geophysical investigation and soil sampling has verified the presence of a large subsurface anomaly indicative of a buried UST near the southeastern corner of Building 6, in the Southeastern Parcel Area of Figure 4. The geophysical anomaly has dimensions of approximately 12 feet wide by 25 feet long, and is centered about 15-20 feet east of the southeast corner of Building 6. GPR data indicates the source of this anomaly is approximately four feet beneath the asphalt and the geophysical responses are consistent with a large UST.

Soil boring locations C5, C9, and C12 in the Southeastern Parcel Area (Figure 4) all met refusal at depths of about 4 feet bgs, indicating the presence of a large buried mass, probably a steel tank. The length of this mass indicated by the 3 borings (at least 20 linear feet) and the dimensions of the anomaly are consistent with a tank size of 10,000 gallons. It is likely that this is the site of the 10,000 gallon UST permitted in the 1950s by Pratty Company, at the address location of 435 West Los Feliz Road. Another anomaly at the eastern edge of the parcel (dimensions of 11 feet by 7 feet, approximately three feet bgs) is uncertain but could be a very small UST, buried utility vault, or abandoned piping.

Geophysical investigation and soil sampling at other areas formerly associated with the possible presence of USTs did not detect evidence of USTs remaining in place. At the South-Central Parcel Area (associated with former service station at 447-449 West Los Feliz Road; Figure 5), the geophysical survey reported no anomalies in the portion of the parcel formerly occupied by the station, and soil sampling detected no evidence of buried USTs. The Northwestern Parcel Area (Figure 7) has also been associated with USTs (Quality Kot-Pak 1,000-gallon UST installed in 1950, removed in 1962; and 1,000-gallon UST referenced by a 1975 permit for maintenance, with notation for removal by January 1976). Soil sampling in the parcel's perimeter area not previously evaluated by geophysical investigation detected no evidence of buried USTs.

Soil sample results for all the evaluated areas generally verified there to be no significant evidence of soil impact. There are localized areas with detectable concentrations of TPH (typically oil-range hydrocarbons) and slightly elevated metals concentrations (typically lead and zinc). These localized areas include shallow soils under Building 4 (2 of 6 samples with low concentrations of lead, zinc, and oil from former site uses prior to the present building); the Southeastern Parcel Area (5 of 29 samples with low concentrations of TPH oil, lead or zinc, and 1 sample with trace tetrachloroethene); the South-Central Parcel Area (2 of 17 samples with low concentrations of lead and zinc, trace tetrachloroethene); the compressor area south of Building 1 (trace TPH oil); and the work areas at Byron's Auto (trace TPH oil and volatile hydrocarbons).

For evaluation of potential risk, the analyte concentrations in soils were compared to criteria including the Preliminary Remediation Goals (PRGs) reported for the residential setting by United States Environmental Protection Agency, Region 9 (EPA Region 9), and TTLC/STLC limits; and also the Maximum Soil Screening Levels established by the Regional Water Quality Control Board (RWQCB), Los Angeles Region (May, 1996). For the samples analyzed, soils with slightly elevated metal concentrations are significantly less than EPA Region 9 residential PRGs, and TTLC/STLC limits. Soils with detectable TPH and/or volatile hydrocarbon concentrations are significantly less than RWQCB Maximum Soil Screening Levels.

TRAK recommends that the large geophysical anomaly in the Southeastern Parcel Area be further investigated, and if verified to be a UST, removal of the UST in accordance with the proper permits is recommended. At the time of further activities in this area, verification of the identity of the small geophysical anomaly adjacent to Gardena Avenue is also suggested.

We encourage your review of this report and recommendations. If you have any questions, please feel free to contact either Robert Cashier or Brad Newman at (805) 650-5333.

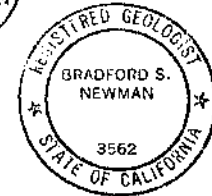
Sincerely,
TRAK Environmental Group, Inc.

Robert Cashier

Robert Cashier, CPSS, REA II
Director, Environmental Programs

Bradford S. Newman

Bradford S. Newman R.G., H.G.
President



Attachments

cc: Mr. Don Owen

FIGURES

- 1 Site Location Map
- 2 Site Map
- 3 Map With Samples, Building 4 and Adjoining Lot
- 4 Map With Samples, Southeastern Parcel Area
- 5 Map With Samples, South-Central Parcel Area
- 6 Map With Samples, Building 1 Compressor
- 7 Map With Samples, Northwestern Parcel Area

TABLES

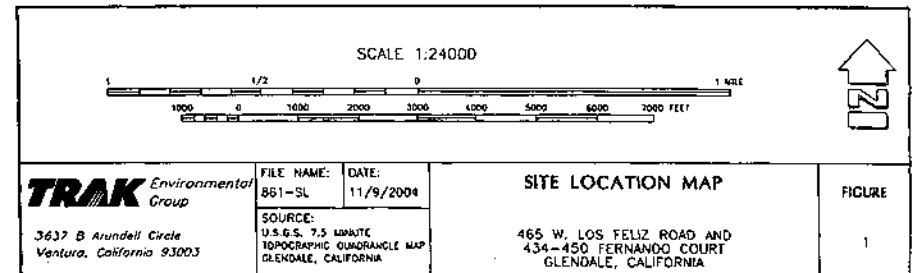
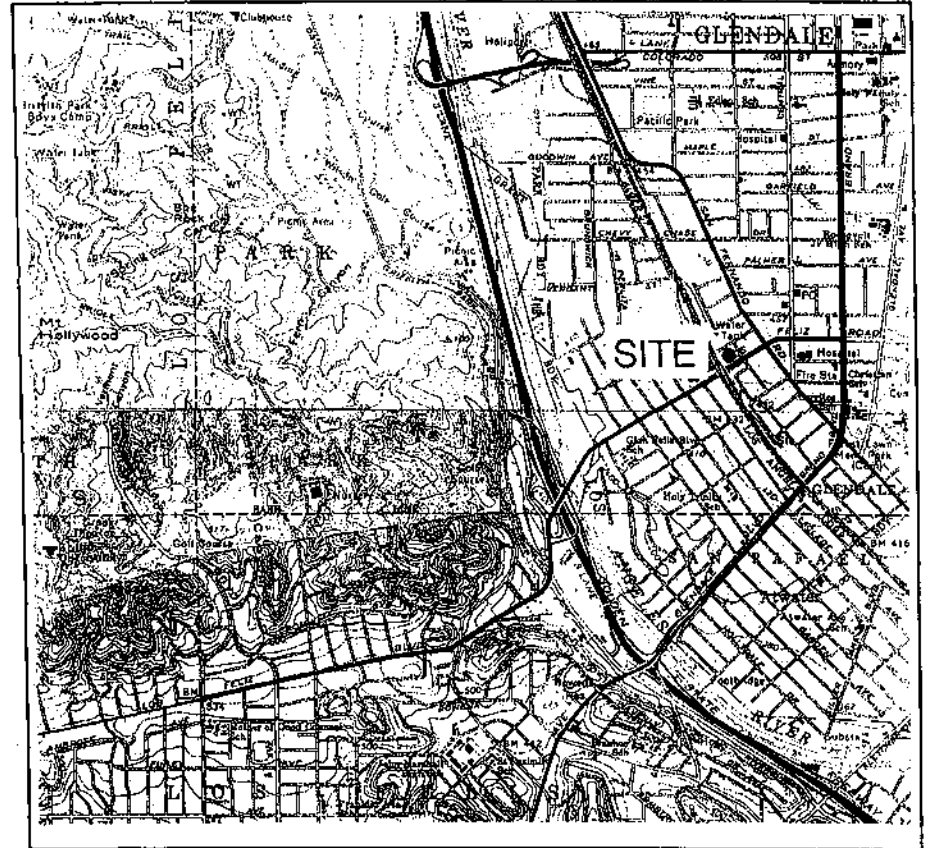
- 1 Soil Analytical Results (Building 4 and Adjacent Lot)
- 2 Soil Analytical Results (Southeastern Parcel Area)
- 3 Soil Analytical Results (South-Central Parcel Area, Building 1 Compressor)
- 4 Soil Analytical Results (Northwestern Parcel Area)
- 5 Soil Analytical Results (TTLIC Title 22 Metal Analytes)

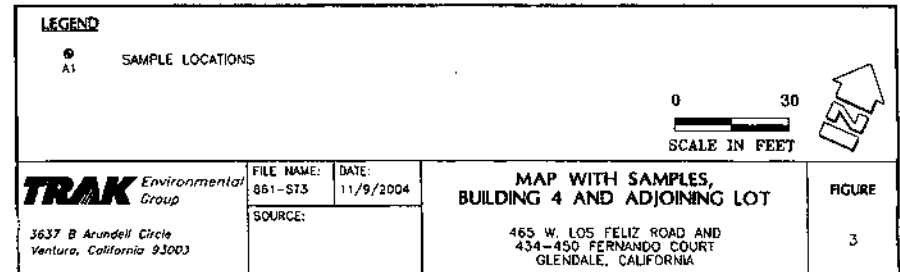
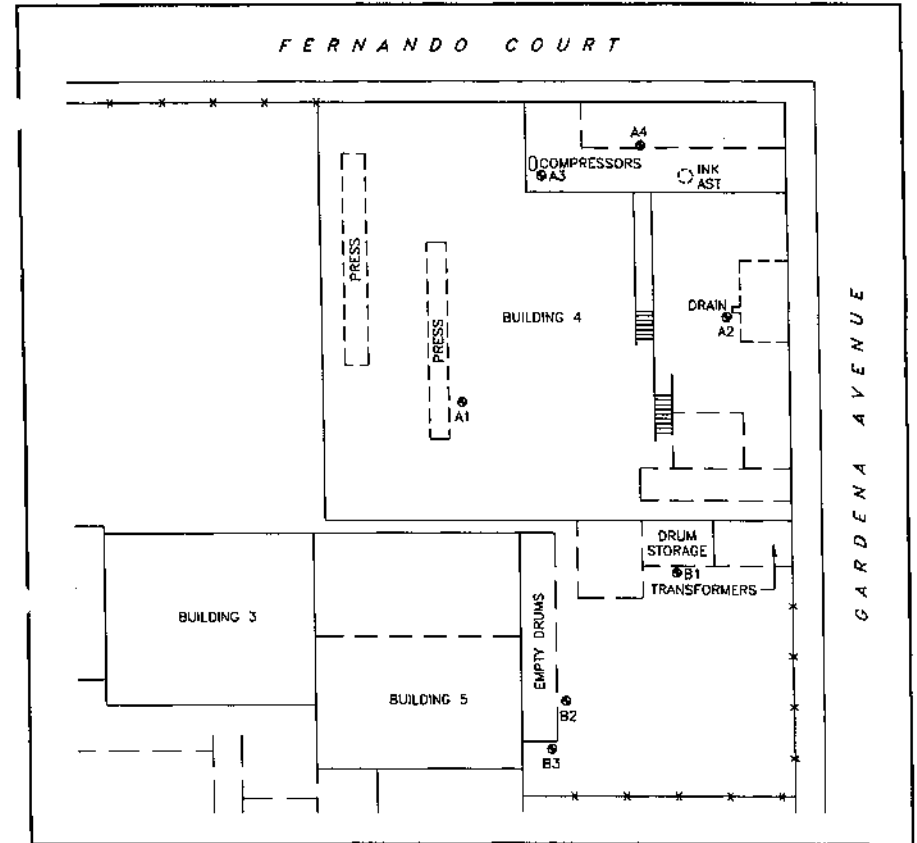
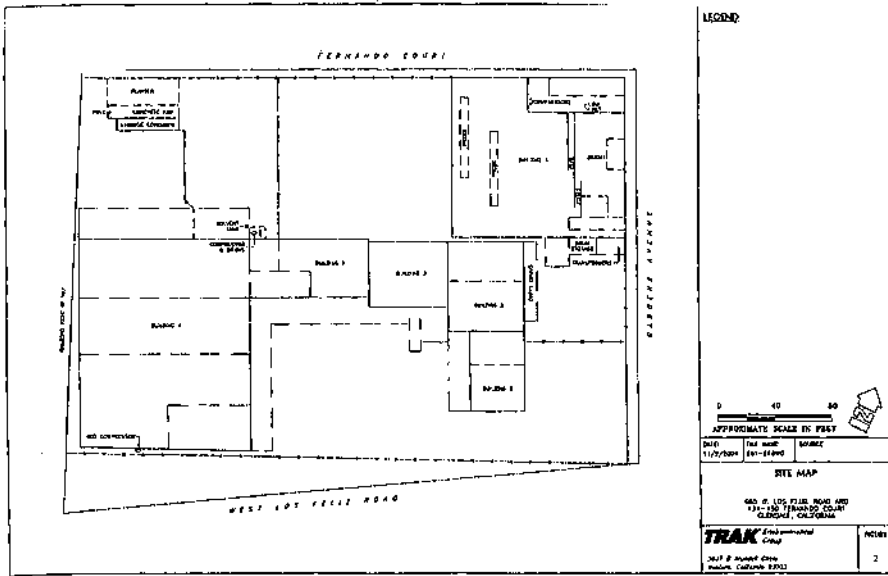
ATTACHMENTS

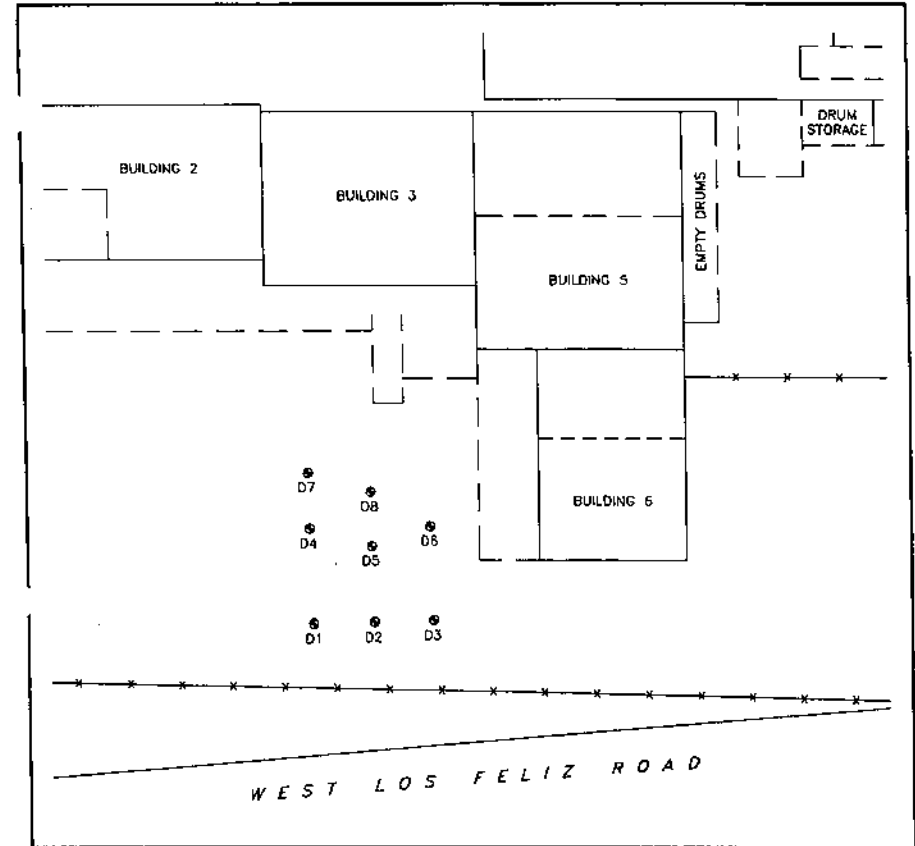
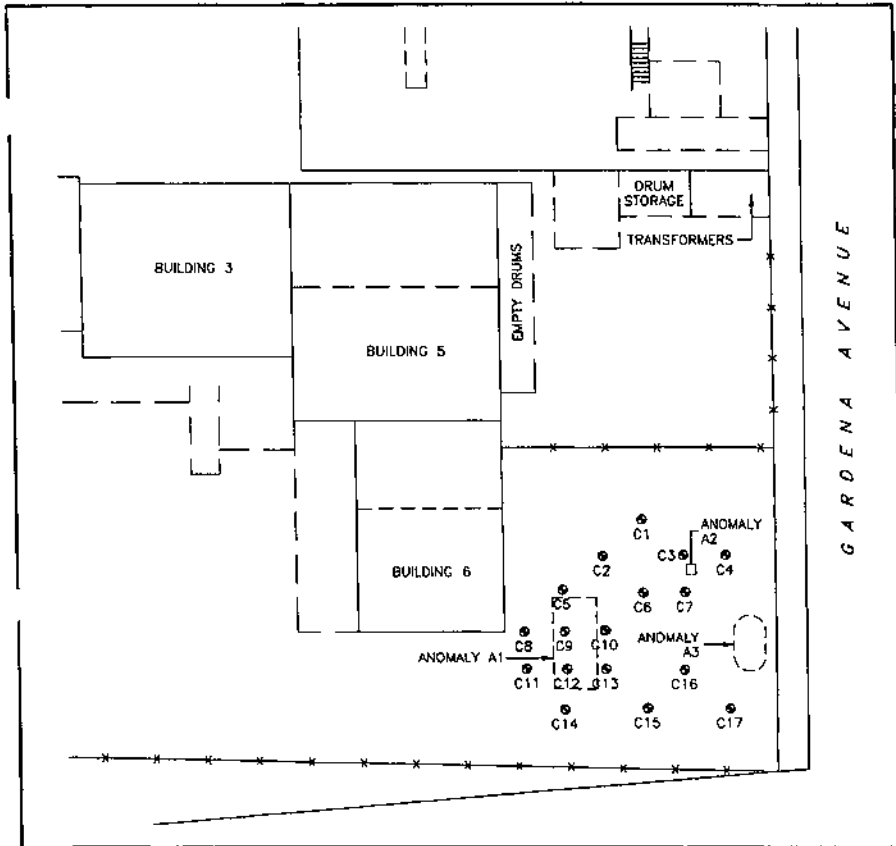
- A Standard Operating Procedures
- B Geophysical investigation Report
- C Borelogs
- D Laboratory Reports and Chains of Custody

TRAK

FIGURES







LEGEND

○ C1 SAMPLE LOCATIONS

0 30
SCALE IN FEET

TRAK Environmental Group
3837 B Arundell Circle
Ventura, California 93003

FILE NAME: 861-S14
DATE: 11/9/2004
SOURCE:

MAP WITH SAMPLES, SOUTHEASTERN PARCEL AREA

465 W. LOS FELIZ ROAD AND
434-450 FERNANDO COURT
GLENDALE, CALIFORNIA

FIGURE 4

LEGEND

○ D1 SAMPLE LOCATIONS

0 30
SCALE IN FEET

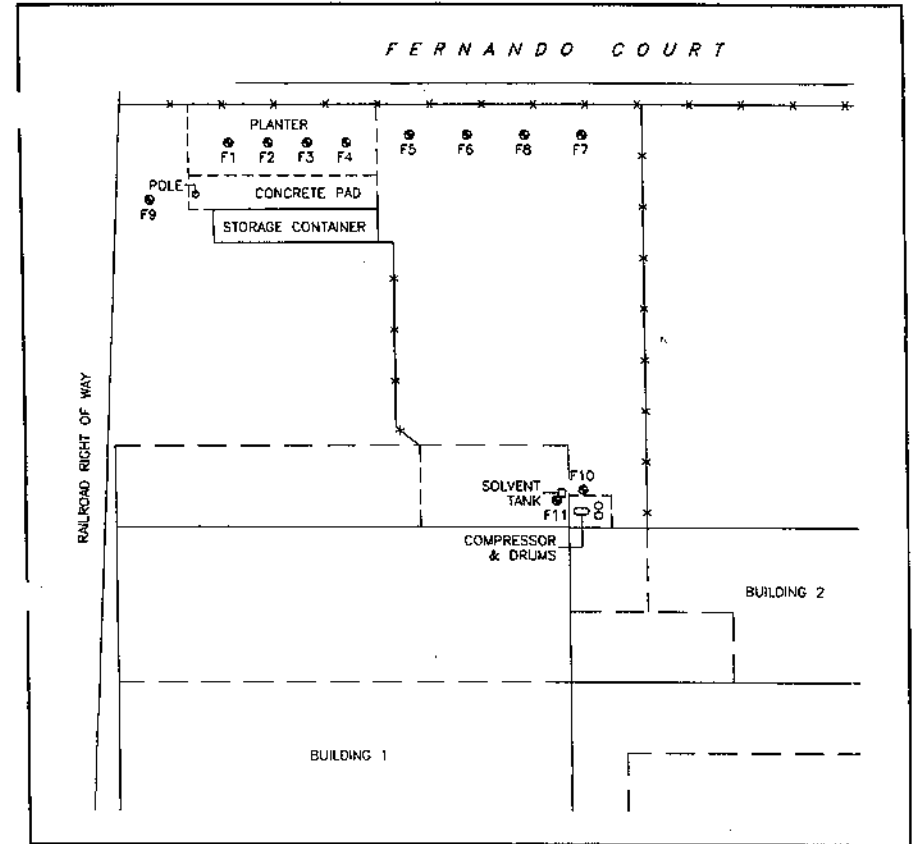
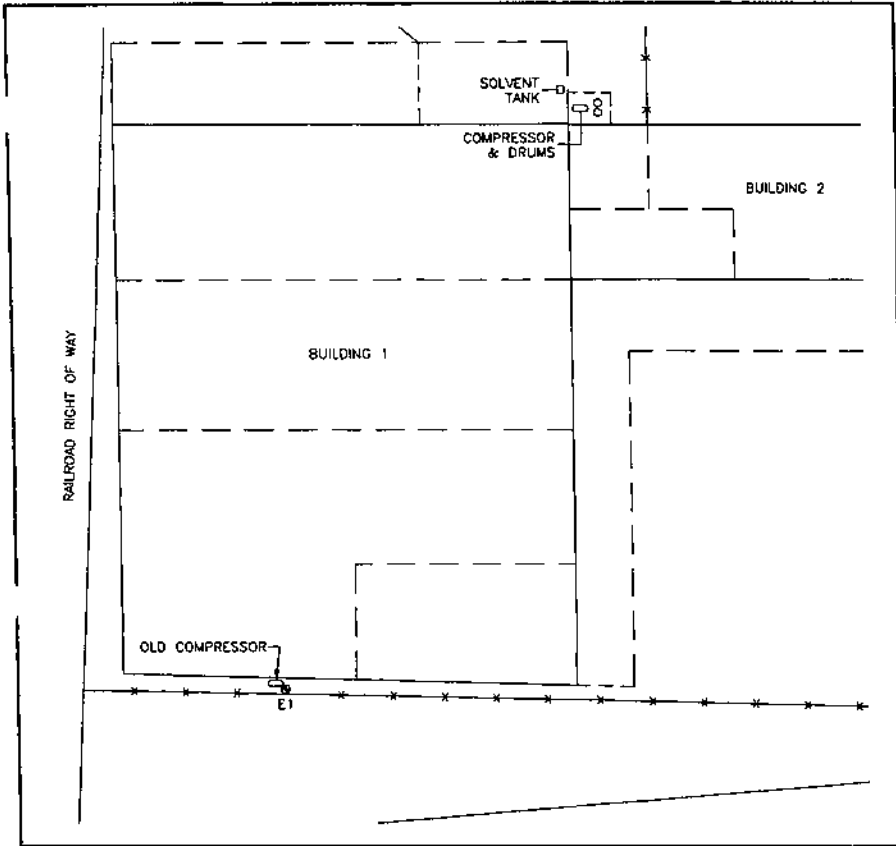
TRAK Environmental Group
3837 B Arundell Circle
Ventura, California 93003

FILE NAME: 861-S15
DATE: 11/9/2004
SOURCE:

MAP WITH SAMPLES, SOUTH-CENTRAL PARCEL AREA

465 W. LOS FELIZ ROAD AND
434-450 FERNANDO COURT
GLENDALE, CALIFORNIA

FIGURE 5



LEGEND

⊙ E1 SAMPLE LOCATIONS



LEGEND

⊙ F1 SAMPLE LOCATIONS



TRAK Environmental Group
3637 B Arundell Circle
Ventura, California 93003

FILE NAME: 861-ST6
DATE: 11/9/2004
SOURCE:

**MAP WITH SAMPLE,
BUILDING 1 COMPRESSOR**
465 W. LOS FELIZ ROAD AND
434-450 FERNANDO COURT
GLENDALE, CALIFORNIA

FIGURE
6

TRAK Environmental Group
3637 B Arundell Circle
Ventura, California 93003

FILE NAME: 861-ST7
DATE: 11/9/2004
SOURCE:

**MAP WITH SAMPLES,
NORTHWESTERN PARCEL AREA**
465 W. LOS FELIZ ROAD AND
434-450 FERNANDO COURT
GLENDALE, CALIFORNIA

FIGURE
7

TABLES

Table 1
Soil Analytical Results (Building 4 and Adjacent Lot)
465 West Los Feliz Road, 434-460 Fernando Court
Glendale, CA

Sample Location	Depth (ft)	Date	Total Petroleum Hydrocarbons (1) TPH gas (C4-C12) (mg/kg)	Total Petroleum Hydrocarbons (2) TPH DRG (C13-C22) (mg/kg)	Total Petroleum Hydrocarbons (3) TPH DRG (C22+) (mg/kg)	Volatile Organic Compounds (4) (ug/kg)
Building 4						
A1-1	1	10/22/04	—	ND (<10)	ND (<50)	ND (<2-50)
A1-4	4	10/22/04	—	ND (<10)	74	ND (<2-50)
A3-1	1	10/22/04	—	—	—	ND (<2-50)
A2-5	5	10/22/04	—	—	—	—
A3-1	1	10/22/04	—	ND (<10)	ND (<50)	ND (<2-50)
A4-1	1	10/22/04	—	ND (<10)	ND (<50)	ND (<2-50)
Adjacent Lot South of Building						
B1-2	2	10/22/04	—	ND (<10)	ND (<50)	ND (<2-50)
B1-5	5	10/22/04	—	ND (<10)	ND (<50)	ND (<2-50)
B1-10	10	10/22/04	—	ND (<10)	ND (<50)	—
B2-2	2	10/22/04	—	ND (<10)	ND (<50)	ND (<2-50)
B2-6	6	10/22/04	—	ND (<10)	ND (<50)	—
B3-2	2	10/22/04	—	ND (<10)	ND (<50)	ND (<2-50)
B3-6	6	10/22/04	—	ND (<10)	ND (<50)	ND (<2-50)
B3-10	10	10/22/04	—	ND (<10)	ND (<50)	—

ND = Not Analyzed
 — = Not Detected at the Practical Quantitation Limit (PQL indicated)
 mg/kg = milligrams per kilogram
 ug/kg = micrograms per kilogram
 Notes:
 (1) Analyzed by EPA Method 8015a or 8260s for TPH as gas
 (2) Analyzed by EPA Method 8015a/MS/SLUFT for TPH as diesel range (DRG)
 (3) Analyzed by EPA Method 8015a/MS/SLUFT for TPH as oil range (OR)
 (4) Analyzed by EPA Method 8260s for VOCs. PQL for VOCs range from 2 ug/kg to 50 ug/kg; see laboratory report for specific analytes.

Table 2
Soil Analytical Results (Southeastern Parcel Area)
 465 West Los Feliz Road, 434-450 Fernando Court
 Glendale, CA

Sample Location	Depth (ft)	Date	Total Petroleum Hydrocarbons [1] TPH gas (C4-C12) (mg/kg)	Total Petroleum Hydrocarbons [2] TPH DRO (C13-C22) (mg/kg)	Total Petroleum Hydrocarbons [3] TPH ORO (C22+) (mg/kg)	Volatile Organic Compounds [4] (ug/kg)
Southeastern Area						
C1-2	2	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C2-2	2	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C2-6	6	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C3-2	2	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	ND (<2-50)
C3-6	6	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C4-2	2	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C5-2	2	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C5-4	4	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	ND (<2-50)
C6-2	2	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C7-2	2	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	ND (<2-50)
C7-6	6	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C8-6	6	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C8-10	10	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C9-2	2	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C9-4	4	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	ND (<2-50)
C10-6	6	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C10-10	10	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C11-6	6	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C11-10	10	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C12-2	2	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C12-4	4	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C13-6	6	10/25/04	ND (<0.5)	ND (<10)	438	tetrachloroethene 35
C13-10	10	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C14-6	6	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C14-10	10	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C15-6	6	10/25/04	ND (<0.5)	27	781	--
C15-10	10	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--
C16-2	2	10/25/04	ND (<0.5)	ND (<10)	113	--
C17-6	6	10/25/04	ND (<0.5)	ND (<10)	ND (<50)	--

-- = Not Analyzed
 ND = Not Detected at the Practical Quantitation Limit (PQL indicated)
 mg/kg = milligrams per kilogram
 ug/kg = micrograms per kilogram
 mg/L = milligrams per Liter
 Notes: [1] Analyzed by EPA Method 8015m or 8260B for TPH as gas
 [2] Analyzed by EPA Method 8015M/DHSLUFT for TPH as diesel range (DRO)
 [3] Analyzed by EPA Method 8015M/DHSLUFT for TPH as oil range (ORO)
 [4] Analyzed by EPA Method 8260B for VOCs. PQL for VOCs range from 2 ug/kg to 50 ug/kg; see laboratory report for specific analytes.

Table 3
Soil Analytical Results (South-Central Parcel Area, Building 1 Compressor)
 465 West Los Feliz Road, 434-450 Fernando Court
 Glendale, CA

Sample Location	Depth (ft)	Date	Total Petroleum Hydrocarbons [1] TPH gas (C4-C12) (mg/kg)	Total Petroleum Hydrocarbons [2] TPH DRO (C13-C22) (mg/kg)	Total Petroleum Hydrocarbons [3] TPH ORO (C22+) (mg/kg)	Volatile Organic Compounds [4] (ug/kg)
South-Central Area						
D1-2	2	10/22/04	ND (<0.5)	--	--	ND (<2-50)
D1-6	6	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	--
D1-10	10	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	--
D2-2	2	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	--
D2-6	6	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	--
D3-2	2	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	--
D3-6	6	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	--
D4-2	2	10/22/04	ND (<0.5)	--	--	tetrachloroethene 11
D4-6	6	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	--
D4-10	10	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	--
D5-2	2	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	--
D5-6	6	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	--
D6-2	2	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	--
D6-6	6	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	--
D7-2	2	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	--
D7-6	6	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	--
D8-2	2	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	--
Building 1 Compressor						
E1-1	1	10/25/04	--	ND (<10)	60	ND (<2-50)

-- = Not Analyzed
 ND = Not Detected at the Practical Quantitation Limit (PQL indicated)
 mg/kg = milligrams per kilogram
 ug/kg = micrograms per kilogram
 mg/L = milligrams per Liter
 Notes: [1] Analyzed by EPA Method 8015m or 8260B for TPH as gas
 [2] Analyzed by EPA Method 8015M/DHSLUFT for TPH as diesel range (DRO)
 [3] Analyzed by EPA Method 8015M/DHSLUFT for TPH as oil range (ORO)
 [4] Analyzed by EPA Method 8260B for VOCs. PQL for VOCs range from 2 ug/kg to 50 ug/kg; see laboratory report for specific analytes.

Table 4
Soil Analytical Results (Northwestern Parcel Area)
465 West Los Feliz Road, 434-450 Fernando Court
Glendale, CA

Sample Location	Depth (ft)	Date	Total Petroleum Hydrocarbons [1] TPH gas (C4-C12) (mg/kg)	Total Petroleum Hydrocarbons [2] TPH DRO (C13-C22) (mg/kg)	Total Petroleum Hydrocarbons [3] TPH ORO (C22+) (mg/kg)	Volatile Organic Compounds [4] (ug/kg)
Northwestern Area						
F1-2	2	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	—
F1-6	6	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	—
F2-6	6	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	—
F3-10	10	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	—
F3-2	2	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	—
F3-6	6	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	—
F4-6	6	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	—
F4-10	10	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	—
F5-2	2	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	—
F5-6	6	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	—
F6-6	6	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	—
F6-10	10	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	—
F7-6	6	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	—
F7-10	10	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	—
F8-2	2	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	—
F8-6	6	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	—
F9-2	2	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	—
F9-6	6	10/22/04	ND (<0.5)	ND (<10)	ND (<50)	—
Compressor Drums						
F10-1	1	10/22/04	—	ND (<10)	362	ND (<2-50)
F10-4	4	10/22/04	—	ND (<10)	ND (<50)	ND (<2-50)
Solvent Tank						
F11-1	1	10/22/04	—	ND (<10)	61	ethylbenzene 2 xylenes 14

— = Not Analyzed
 ND = Not Detected at the Practical Quantitation Limit (PQL Indicated)
 mg/kg = milligrams per kilogram
 ug/kg = micrograms per kilogram
 mg/L = milligrams per liter
 Notes: [1] Analyzed by EPA Method 8015r or 8260B for TPH as gas.
 [2] Analyzed by EPA Method 8015M/DHSLUFT for TPH as diesel range (DRO).
 [3] Analyzed by EPA Method 8015M/DHSLUFT for TPH as oil range (ORO).
 [4] Analyzed by EPA Method 8260B for VOCs. PQL for VOCs range from 2 ug/kg to 50 ug/kg; see laboratory report for specific analytes.

Table 5
Soil Analytical Results (TLC Title 22 Metals)
465 West Los Feliz Road, 434-450 Fernando Court
Glendale, CA

Sample Location	Depth (ft)	Date	CCR Title 22 TLC Metals [1]																
			Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Cobalt (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Thallium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
Building 4																			
A1-1	1	10/22/04	1.00	3.55	142	ND	ND	10.8	11.2	13.1	11.0	ND	ND	11.8	ND	ND	ND	57.2	83.0
A1-4	4	10/22/04	1.33	0.67	154	ND	ND	11.9	8.83	15.6	85.8	ND	ND	10.2	ND	ND	ND	43.8	180
A2-1	1	10/22/04	0.54	0.37	129	ND	ND	10.1	7.71	9.36	49.7	ND	ND	8.19	ND	ND	ND	34.3	95.2
A2-5	5	10/22/04	1.14	1.06	170	ND	ND	14.4	12.4	17.3	91.7	ND	ND	13.4	ND	ND	ND	62.9	183
Southeastern Area																			
C3-2	2	10/25/04	1.31	1.46	173	ND	ND	16.2	13.2	17.4	2.93	ND	ND	14.2	ND	ND	ND	67.4	68.9
C5-4	4	10/25/04	0.55	ND	87.9	ND	0.97	5.20	7.25	6.03	3.00	ND	ND	4.68	ND	ND	ND	18.8	439
C7-2	2	10/25/04	1.06	1.10	230	ND	ND	11.8	10.4	15.4	115	ND	ND	11.4	ND	ND	ND	54.5	83.5
C9-4	4	10/25/04	1.17	ND	76.8	ND	ND	6.30	5.84	5.32	1.89	ND	ND	5.60	ND	ND	ND	31.9	32.3
C12-4	4	10/25/04	0.83	ND	80.1	ND	ND	14.5	6.72	9.98	4.33	ND	0.70	9.10	ND	ND	ND	35.4	83.1
South-Central																			
D1-2	2	10/22/04	1.21	1.59	161	ND	ND	15.8	14.8	18.2	3.89	ND	ND	15.2	ND	ND	ND	73.4	74.7
D4-2	2	10/22/04	1.50	0.50	168	ND	ND	15.6	11.2	28.8	97.1	ND	ND	12.8	ND	ND	ND	56.3	486
PRGs*																			
Residential Soil (mg/kg)			31	0.39 ca	5,400	150	37	210 ca	903 ca	3,100	480	23	390	1,890	390	360	5.2	590	23,000
Industrial Soil (mg/kg)			410	1.6 ca	67,000	1,900	450	450 ca	1,980 ca	41,000	750	310	5,100	20,000	5,100	67	7,200	100,000	
CAL-Mod PRG Res (mg/kg)			—	—	—	—	1.7	—	—	—	150	—	—	—	—	—	—	—	—
CAL-Mod PRG Ind (mg/kg)			—	—	—	—	7.4	—	—	—	—	—	—	—	—	—	—	—	—
STLC (mg/L)			15	5.0	100	0.75	1.0	5	80	25	5.0	0.2	350	20	1.0	5	7.0	24	250
TTLIC (mg/kg)			500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	160	500	700	2,400	5,000

— = Not Analyzed; or Not Reported (for Region 9 PRGs)
 ND = Not detected at the detection limit
 mg/kg = milligrams per kilogram
 Notes: [1] Analyzed by EPA Method 8019B/7471A for CCR Title 22 TLC Metals.
 * EPA Region 9 Preliminary Remediation Goals for Soils, Version 8 (10/02). For substances causing both cancer and noncancer (systemic) effects, the cancer risk (1E-06) will generally result in more stringent criteria; this value is indicated by "ca". Values not otherwise indicated are PRG concentrations that equate to a hazard quotient of 1 for noncarcinogenic concerns.
 STLC - Soluble Threshold Limit Concentration in mg/L. [22 CCR 68261.24(a)(2)]
 TTLIC - Total Threshold Limit Concentration in mg/kg. [22 CCR 68261.24(a)(2)]

TRAK



GEOPHYSICAL INVESTIGATION

**Industrial Facility
Glendale, California**

GEOVision Project No. 5025

**ATTACHMENT B
Geophysical Investigation Report**

Prepared for

TRAK Environmental Group
3637 B Arundell Circle
Ventura, California 93003

Prepared by

GEOVision Geophysical Services
1151 Pomona Rd, Unit P
Corona, CA 92882
(909) 549-1234

November 5, 2004

TABLE OF CONTENTS

1	INTRODUCTION	1
2	GEOPHYSICAL TECHNIQUES	2
3	FIELD PROCEDURES.....	4
3.1	SITE PREPARATION	4
3.2	MAGNETIC SURVEY	4
3.3	GEONICS EM-61 SURVEY	4
3.4	FIELD VERIFICATION AND GPR SURVEY.....	5
4	DATA PROCESSING AND INTERPRETATION	6
4.1	DATA PROCESSING.....	6
4.2	INTERPRETATION	6
5	RESULTS	8
6	CERTIFICATION.....	9

APPENDIX A GEOPHYSICAL TECHNIQUES FOR SHALLOW ENVIRONMENTAL INVESTIGATIONS

LIST OF FIGURES

FIGURE 1	SITE MAP WITH GEOPHYSICAL INTERPRETATION 434 FERNANDO COURT
FIGURE 2	SITE MAP WITH GEOPHYSICAL INTERPRETATION 465 WEST LOS FELIZ ROAD
FIGURE 3	CONTOUR MAP OF GEONICS EM-61 BOTTOM COIL RESPONSE 434 FERNANDO COURT
FIGURE 4	CONTOUR MAP OF VERTICAL MAGNETIC GRADIENT 434 FERNANDO COURT
FIGURE 5	SAMPLE GPR TRAVERSES 434 FERNANDO COURT
FIGURE 6	CONTOUR MAP OF GEONICS EM-61 BOTTOM COIL RESPONSE 465 W. LOS FELIZ

1 INTRODUCTION

A geophysical investigation was conducted on October 22, 2004 on portions of parking lots located at 434 Fernando Court and 465 Los Feliz Road in Glendale, California. The purpose of the investigation was to screen two areas with dimensions of 60- by 140-feet and 50- by 50-feet for underground storage tanks (USTs).

Area 1 is an asphalt covered parking area south of the building located at 434 Fernando Court. Area 2 is also an asphalt-covered parking area located south and east of the building occupied at 365 Los Feliz Road. Surficial features at the site that affected the geophysical data included the building, fences, parked vehicles, and surface reinforced concrete.

Geophysical techniques used during this investigation included the magnetic, electromagnetic (EM), and ground penetrating radar (GPR) methods. These techniques complement one another as each responds to different physical properties and has different strengths and limitations.

Geophysical techniques used during the investigation are discussed in Section 2. Field procedures are described in Section 3. Data processing and interpretation are discussed in Section 4. The results of the geophysical survey are presented in Section 5, and our professional certification is presented in Section 6.

2 GEOPHYSICAL TECHNIQUES

This section presents background information on the magnetic, EM and GPR methods used during this investigation. A description of the geophysical methods used during this investigation, common applications of the methods, photographs of the instruments, and example applications are included in Appendix A.

The magnetometer used during this investigation consisted of a Geometrics G858 optically pumped cesium-vapor magnetometer (G858). This instrument measures the intensity of the earth's magnetic field in nanoteslas (nT) and, optionally, the vertical gradient of the earth's magnetic field in nanoteslas per meter (nT/m). The vertical magnetic gradient is calculated by measuring the total magnetic field with two sensors at different heights, subtracting the top sensor reading from the bottom sensor reading, and dividing by the sensor separation. Buried ferrous metallic objects give rise to anomalies in the earth's magnetic field. These anomalies are generally dipolar with a positive response south and a negative response north of the object. The dimensions and amplitude of a magnetic anomaly are a function of the size, mass, depth, and magnetic properties of the source. Magnetometers can typically locate a 550-gallon tank to depths of about 10 feet providing background noise levels are not too high and the tank is not extensively corroded. Larger metallic objects can be located to greater depths. The vertical magnetic gradient anomaly due to an object the size of a 550-gallon tank is expected to have dimensions of about 15- by 15-feet. Magnetometers are not able to detect nonferrous metals such as aluminum or brass.

EM equipment used during this investigation consisted of a Geonics EM-61 high-resolution digital metal detector (EM-61). The EM-61 is a high-resolution, deep sensing, time domain EM metal detector. The EM-61 has a single transmitter and two receiver coils. The bottom coil is the transmitter during the current on-time and receiver during current off-time. The top-coil, mounted 40-cm above the bottom coil, is a receiver coil only. The transmitter and receiver electronics controls are mounted in a backpack and a hand-held data logger is used to store field measurements. During operation a half-duty cycle waveform is applied to the transmitter coil. During the off-time the receiver coils measure the decay of eddy currents, in millivolts (mV), produced in subsurface metallic objects by the pulsed primary EM field. The top coil is gained in such a manner that the instrument response to a metallic object lying on the surface will be approximately equal at both the top and bottom coils. The effects of surface debris can, therefore, be suppressed by calculating the differential response (subtraction of the bottom coil from top coil response). Positive EM-61 anomalies centered over the source are typically observed over buried metallic objects. Above ground metallic objects will often give rise to a negative differential response, as the top coil response is larger than the bottom coil response. The dimensions of an EM-61 anomaly over an object the size of a 550-gallon tank should be about 10-feet by 10-feet.

EM utility location equipment used during this investigation included a Fisher TW-6 and Radiodetection RD400. These locators use at different frequencies, different modes of operation and different power transmitters resulting in complimentary strengths and

limitations. The Radiodetection RD400 (RD400) is operated at frequencies of 8 kHz, 32 Hz, and can also be operated in a passive 60-Hz mode to locate live electrical lines.

The Fisher TW-6 is metal detector capable of locating metallic objects less than six feet below grade. This instrument is best suited for locating pipes or USTs in an inductive mode.

GPR equipment used during this investigation consisted of a Geophysical Survey Systems Inc. (GSSI) SIR-10B GPR system with a 400 MHz antenna (SIR-10). A GPR antenna transmits high-frequency EM waves into the ground. A portion of the energy is reflected back to the surface at the interface of two materials with different electrical properties and it is received at the antenna. High-amplitude, hyperbolic reflections are generally observed on GPR records over buried metallic objects. GPR depth penetration is a function of the electrical conductivity of subsurface soils and the center frequency of the antenna. Depth penetration is very limited in fine-grained soils such as clay. Low frequency antennas achieve greater depth penetration than high frequency antennas at the expense of resolution. At typical sites in Southern California, depth penetration of a 400-MHz antenna is limited to about 3 to 5 feet, depending on site conditions.

3 FIELD PROCEDURES

This section describes the field procedures used during the investigation, including site preparation, magnetic and EM-61 survey procedures, and verification of geophysical anomalies.

3.1 Site Preparation

Before conducting the geophysical investigation, a 10- by 10-foot survey grid was established and marked with surveyor paint. The grid was established parallel and perpendicular to the existing buildings. The geophysical survey grid was not tied to the State Plane Coordinate System and is estimated to have an accuracy of about 2 feet. Obvious surface cultural features that could potentially affect the geophysical data (i.e. building, fences, and other surface metallic objects) were identified in the field and plotted onto a scaled, hand-drawn site map. Site maps transcribed from the field drawings, showing the location of the geophysical survey area, geophysical survey coordinate system, and surficial features at the site located at 434 Fernando Court and 465 West Los Feliz Road are presented as Figures 1 and 2, respectively.

3.2 Magnetic Survey

Prior to data acquisition, the G858 was programmed with the appropriate line number, direction, sampling interval, and control point spacing. Changes in these parameters were made as necessary during the survey. Measurements of the earth's total magnetic field and vertical magnetic gradient were made at 0.2-second intervals as the operator walked along south to north (S-N) survey lines spaced 5 feet apart. The 10-foot grid points were used for spatial control. A marker key on the instrument was depressed every time a 10-foot control point was crossed and linear interpolation was used to assign station positions to the intermediate readings. The 0.2-second sampling interval resulted in an average station spacing of about 0.5 feet. The magnetic data were stored in the internal memory of the magnetometer, along with line and station number, and time of measurement. If a location error was made on a survey line (station mark skipped, etc.) the line was deleted from the magnetometer's internal memory and reacquired. Magnetic data were downloaded to a laptop computer at the end of the survey using the program MAGMAP 2000 by Geometrics Inc.

3.3 Geonics EM-61 Survey

The EM-61 was assembled and battery levels were checked and found to be within acceptable levels. The EM-61 digital data logger was then programmed with the appropriate file name, line number, start station, station increment, and direction. Changes in these parameters were made as necessary throughout the survey. EM-61 measurements were made at 0.85-foot intervals along S-N survey lines spaced 5 feet apart using the 10-foot grid points for spatial control. The EM-61 data were stored in a digital data logger along with line and station number. If an error was made acquiring a line, a note was made in the field log and

the line repeated. EM-61 data were downloaded to a laptop computer at the end of the survey using the computer program DAT61 by Geonics Ltd.

3.4 Field Verification and GPR Survey

The verification phase of the investigation was conducted after preliminary processing of the magnetic and EM-61 data. A discussion of data processing procedures is provided in the following section. Significant magnetic and EM-61 anomalies interpreted from contour maps of the data were field checked to verify that they had subsurface sources.

GPR data were collected with the SIR-10 along selected S-N and W-E profiles in areas covered with buried metal. GPR data were acquired semi-continuously (64 scans per second), as a 400-MHz antenna was hand-towed along the survey lines. Control points were placed on the GPR records at 10-foot intervals using a marker switch on the antenna. GPR data were viewed in real time on the SIR-10 color monitor and saved to the instrument's hard disk for later archiving and processing, if necessary. All field copies of GPR data are retained in the project files. Estimated depth of investigation of the 400MHz antenna was about 4 to 5 feet.

4 DATA PROCESSING AND INTERPRETATION

This section presents the data processing procedures and interpretation of the geophysical data.

4.1 Data Processing

Color-enhanced contour maps of magnetic and EM-61 data were generated using the Golden Software Surfer 8® contour mapping system. The maps were color-enhanced to aid in the interpretation of subtle anomalies. Prior to map generation, a number of preprocessing steps were completed and included:

- Backup of all original field data files to floppy disk.
- Correcting of all data acquisition errors (typically only deleting the first portion of a reacquired line, renaming lines incorrectly labeled, deleting additional readings outside the grid, etc.)
- Reformatting field data files to free format dat files containing line number, station, time (if applicable), and field measurements.
- Merging of multiple data files into a single file and sorting, if necessary.

The output of the data preprocessing was a data file containing line and station number and the top coil, bottom coil, and differential response. These data files were imported into the Surfer® mapping system and the following data processing steps applied:

- Reformatting of data files to Surfer® format.
- Generating final map scale.
- Gridding data using the kriging algorithm.
- Masking grid in areas where data not acquired (i.e. around site perimeter or building).
- Generating color zone file describing color for different data ranges.
- Contouring the data.
- Generating map surrounds (title block, legend, scale, color bar, north arrow, etc.)
- Annotating anomalies.
- Merging various plot files and plotting final map.

The names of the files generated and the processing parameters used were recorded on data processing forms. All completed data processing forms are retained in project files. All files generated during the processing sequence were later archived.

GPR data acquired during this investigation were not processed; rather interpretation was conducted using raw data. GPR profiles used in Figure 5 were reformatted to .bmp, imported to Surfer®, and annotated.

4.2 Interpretation

Color-enhanced contour maps of EM-61 bottom coil response and vertical magnetic gradient for the site at 434 Fernando Court are presented as Figure 3 and Figure 4, respectively. A

color-enhanced contour map of EM-61 bottom coil for the site at 465 West Los Feliz Road is presented as Figure 6. The coordinates shown on these figures reference the relative geophysical coordinate system in Figure 1 and 2. The color bar indicates the amplitude of the measured quantity with the magenta and cyan colors representing high and low amplitudes, respectively. The light orange, yellow and light green colors indicate average "background" values of the measured quantity. Total field magnetic and EM-61 top and differential response were also acquired. These data are not presented as they did not provide additional information and were, therefore, considered redundant. Contour maps of these data are, however, retained in project files. A combined interpretation of the geophysical data is presented in Figures 1 and Figure 2.

Many anomalies in the magnetic and EM-61 data were field checked to determine if a source of metal at the surface caused the anomaly. A number of surface metallic features, such as the building, fences, reinforced concrete, and vehicles caused anomalies in the geophysical data. These anomalies are labeled as "SM" on the contour maps.

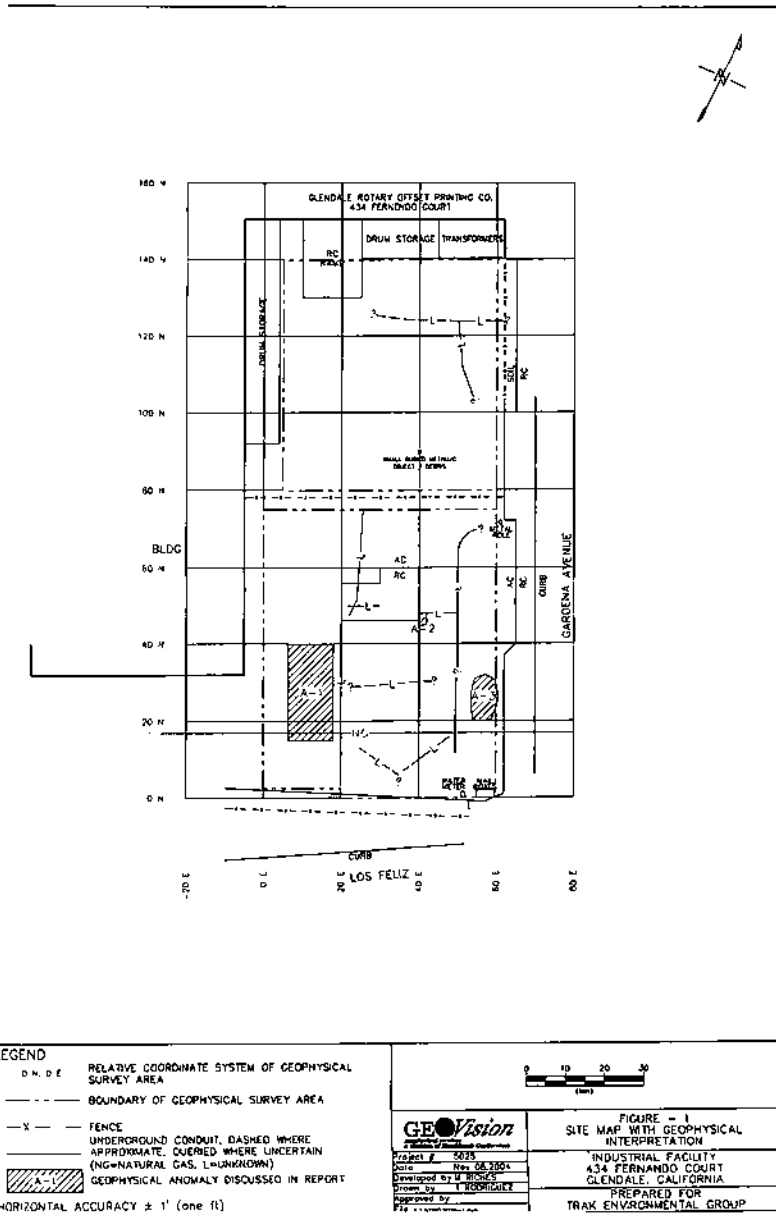
There are three significant anomalies in the area south of 434 Fernando Court. Anomaly A-1 is approximately 12- by 25-feet and is centered at 12E, 25N. GPR data indicates the source of this anomaly is approximately four feet beneath the asphalt (Figure 5). The EM, magnetic, and GPR responses are consistent with a large UST. Anomaly A-2 is a small metallic object (2- by 3-feet) and is buried directly beneath the asphalt. Due to the close proximity of the concrete pad it may have been associated with a former pump island. The anomaly does not have the geophysical characteristics of a UST. The source of Anomaly A-3 has approximate dimensions of 11- by 7-feet and is buried approximately three feet below the surface (Figure 5). The source of this anomaly is uncertain but could be a very small UST, buried utility vault, or abandoned piping, and should be investigated further.

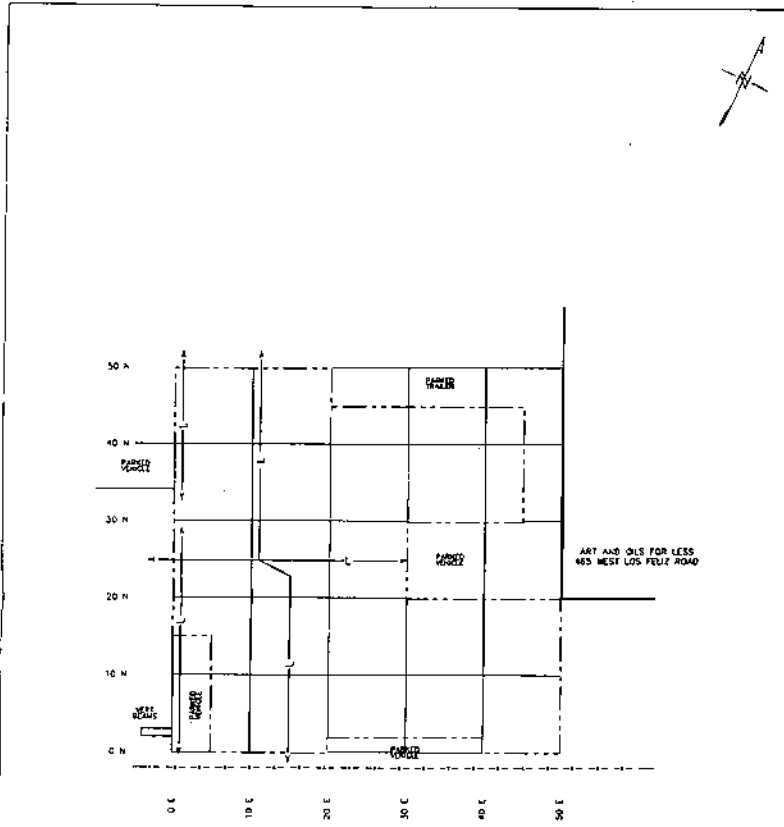
The area south and east of 465 West Los Feliz has several buried pipes, but no anomalies characteristic of USTs were observed in the data.

5 RESULTS

A geophysical survey was conducted at the parking lots located at 434 Fernando Court and 465 West Los Feliz in Glendale, California to locate possible USTs at the site. The geophysical survey revealed the presence of a large buried metallic object characteristic of a 10,000 gallon UST (anomaly A-1). Anomaly A-3 is another buried metallic object that may be a smaller UST, buried utility vault, or subsurface piping. Both of these objects should be uncovered to confirm their source. The third geophysical anomaly (anomaly A-2) is too small to be caused by a UST.

The geophysical survey was designed to locate all buried metallic objects the size of a 500-gallon tank, or larger. It is our opinion that the geophysical survey was appropriately designed to locate all such objects less than about 8 feet deep; except in portions of the survey area where data was affected by surface structures, such as the building, reinforced concrete, and other large surface metallic objects.





ATTACHMENT C
Borelogs

LEGEND			
0 N, 0 E	RELATIVE COORDINATE SYSTEM OF GEOPHYSICAL SURVEY AREA		FIGURE - 2 SITE MAP WITH GEOPHYSICAL INTERPRETATION
- - - -	BOUNDARY OF GEOPHYSICAL SURVEY AREA		
- X -	FENCE	Project #	5025
- - - -	UNDERGROUND CONDUIT, DASHED WHERE APPROXIMATE, QUERIED WHERE UNCERTAIN (ND=NATURAL GAS, L=UNKNOWN)	Date	Nov. 08, 2004
HORIZONTAL ACCURACY ± 1' (one 11)		Prepared by	M. MOSES
		Drawn by	T. RODRIGUEZ
		Approved by	
		Prepared for	TRAK ENVIRONMENTAL GROUP

LOG OF A1

WELL DIAGRAM					DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
Blows	QWL (gpm)	USCS						
	0	SM			0		Concrete	
	0	SM			0		Silty Sand With Gravel (SM): fine-medium-grain, brown, moist, no odor or stain.	
	0	SM			5		Silty Sand (SM): fine-medium-grain, yellow brown, moist, no odor or stain.	
	0	SM			6.5		Silty Sand (SM): very fine-medium-grain, brown, to dark brown, moist, no odor or stain, micaceous.	
Total Depth = 6.5 feet bgs. No Groundwater Encountered								
					10			
					15			
					20			
					25			

PROJECT <u>N/A</u>	DRILLING COMPANY <u>Hand Auger</u>
LOCATION <u>N/A</u>	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>B61</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>B.S. Newman</u>	TOTAL DEPTH OF HOLE <u>6.5 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF A2

WELL DIAGRAM					DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
Blows	QWL (gpm)	USCS						
	0	SM			0		Concrete	
	0	SM			0		Silty Sand With Gravel (SM): fine-medium-grain, brown, moist, no odor or stain.	
	0	SM			5		Silty Sand (SM): fine-medium-grain, yellow brown, moist, no odor or stain.	
	0	SM			6.5		Silty Sand (SM): very fine-medium-grain, brown, to dark brown, moist, no odor or stain, micaceous.	
Total Depth = 6 feet bgs. Refusal at 6 feet bgs. No Groundwater Encountered								
					10			
					15			
					20			
					25			

PROJECT <u>N/A</u>	DRILLING COMPANY <u>Hand Auger</u>
LOCATION <u>N/A</u>	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>B61</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>B.S. Newman</u>	TOTAL DEPTH OF HOLE <u>6 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF A3

WELL DIAGRAM						MATERIALS DESCRIPTION
Blows	OWL (ppmv)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	
	0	SM	0			Concrete
						Silty Sand With Gravel (SM): fine-medium-grain, light brown to brown, moist, no odor or stain.
			5			Total Depth = 3 feet bgs. Refusal at 3 feet bgs. No Groundwater Encountered
			10			
			15			
			20			
			25			

PROJECT <u>N/A</u>	DRILLING COMPANY <u>Hand Auger</u>
LOCATION <u>N/A</u>	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>861</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>B.S. Newman</u>	TOTAL DEPTH OF HOLE <u>3 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF A4

WELL DIAGRAM						MATERIALS DESCRIPTION
Blows	OWL (ppmv)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	
	0	Sk	0			Concrete
						Silty Sand With Gravel (SM): fine-medium-grain, light brown to brown, moist, no odor or stain.
		SM	0			Total Depth = 3.5 feet bgs. Refusal at 3.5 feet bgs. No Groundwater Encountered
			5			
			10			
			15			
			20			
			25			

PROJECT <u>N/A</u>	DRILLING COMPANY <u>Hand Auger</u>
LOCATION <u>N/A</u>	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>861</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>B.S. Newman</u>	TOTAL DEPTH OF HOLE <u>3.5 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF B1

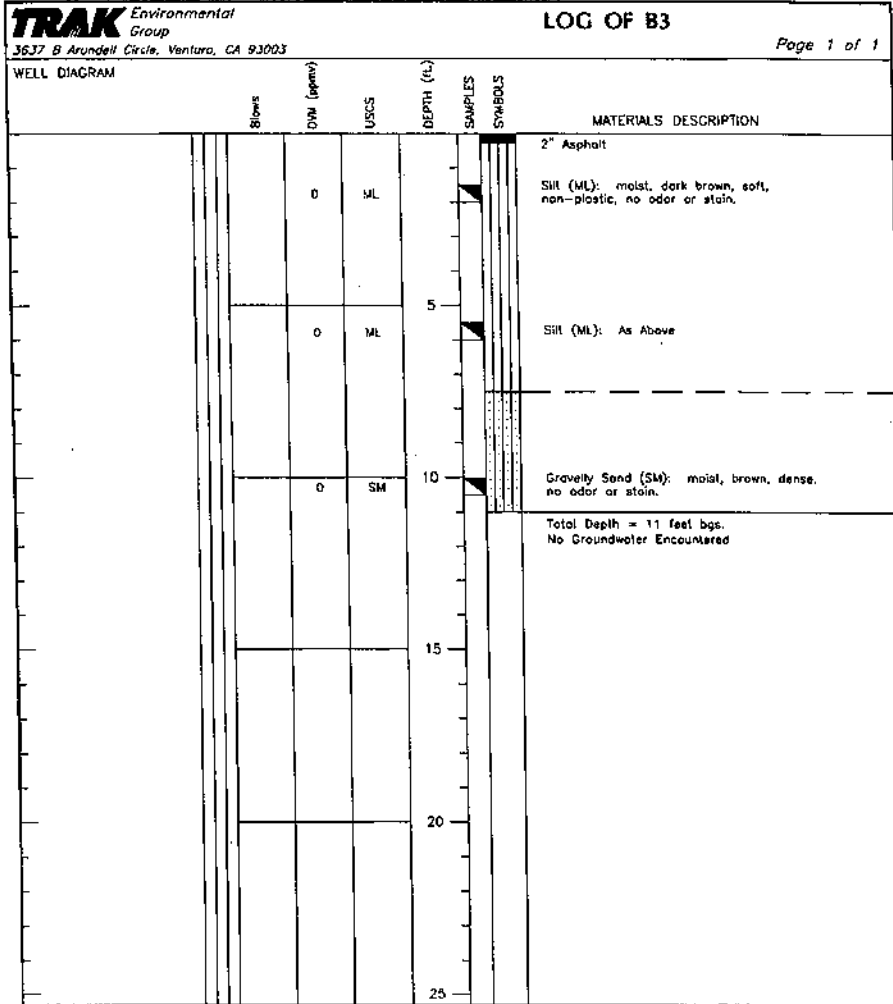
WELL DIAGRAM		Blows	OW (gpm)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
								2" Asphalt
			0	ML				Clayey Silt (ML): moist, dark brown, soft, non-plastic, no odor or stain.
			0	ML	5			Very Fine Sandy Silt (ML): moist, brown, medium stiff, non-plastic, no odor or stain.
			0	ML	10			Very Fine Sandy Silt (ML): moist, brown, medium stiff, non-plastic, no odor or stain. (Lighter brown than above).
								Total Depth = 11 feet bgs. No Groundwater Encountered
					15			
					20			
					25			

PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

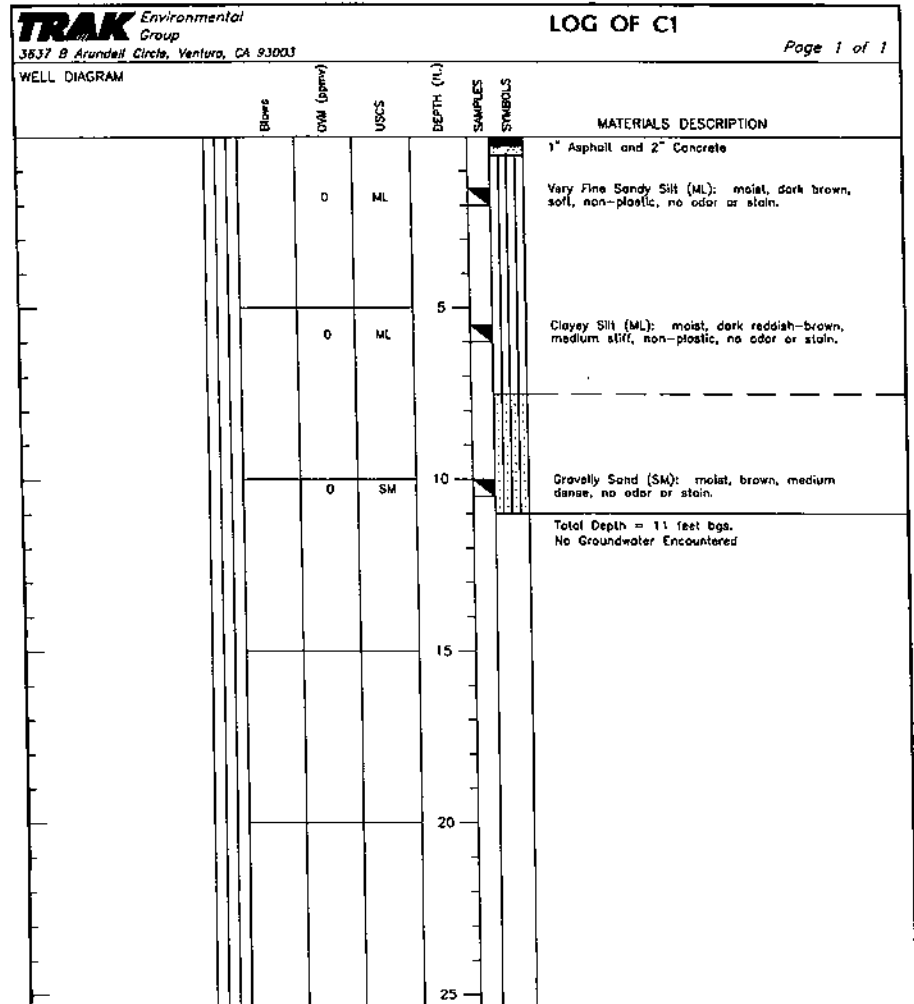
LOG OF B2

WELL DIAGRAM		Blows	OW (gpm)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
								2" Asphalt
			0	ML				Very Fine Sandy Silt (ML): moist, soft, non-plastic, no odor or stain.
			0	ML	5			Silt (ML): moist, dark brown, soft, non-plastic, no odor or stain.
			0	SM	10			Silty Sand (SM): trace gravel 1/4" diameter, moist, brown, medium dense, no odor or stain.
								Total Depth = 11 feet bgs. No Groundwater Encountered
					15			
					20			
					25			

PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

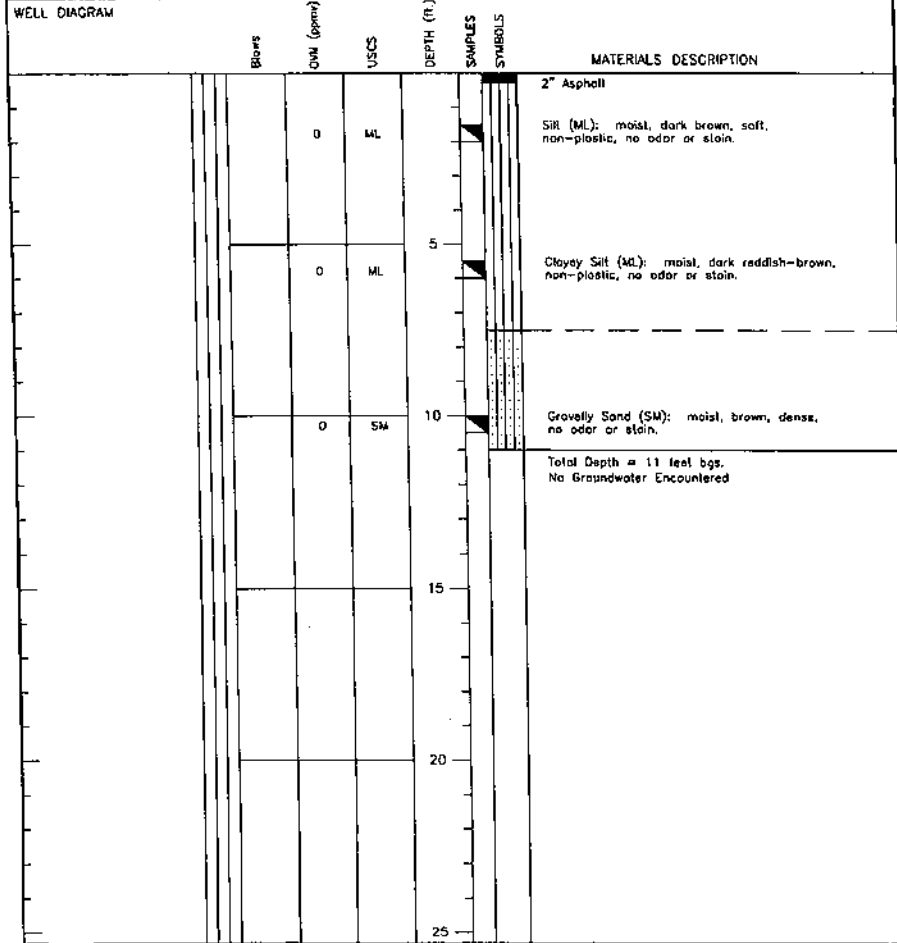


PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>



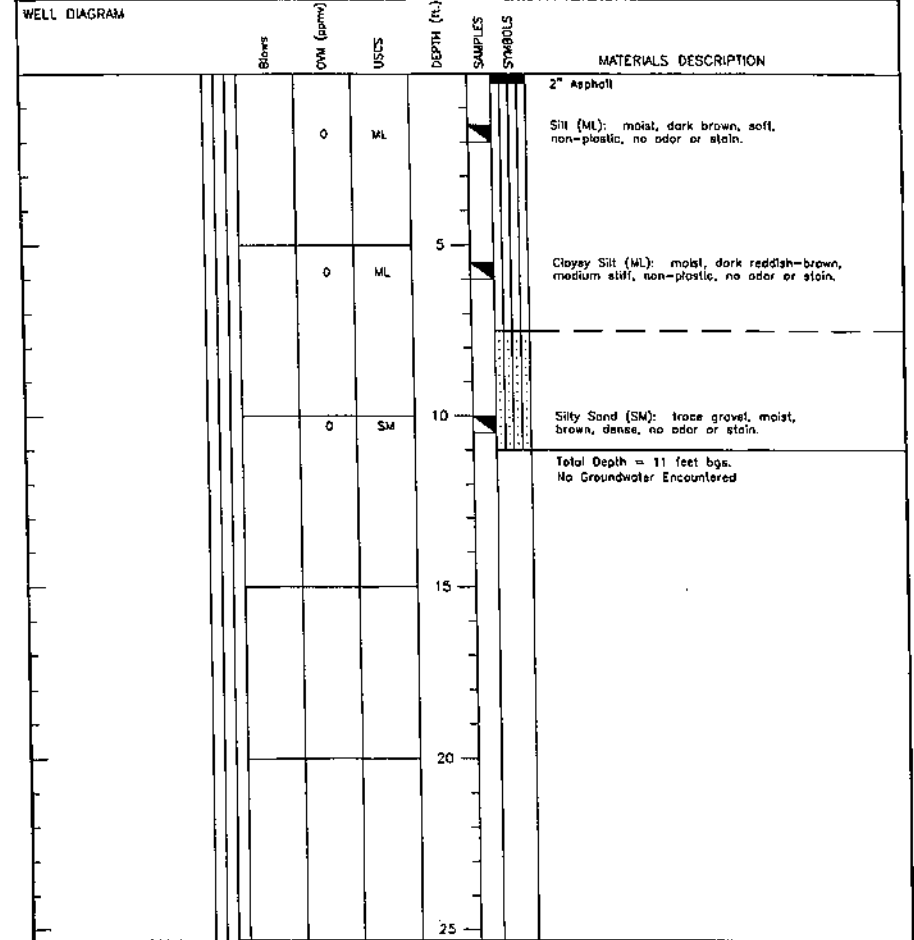
PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/25/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF C2



PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/25/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF C3



PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/25/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

WELL DIAGRAM		Blows	OW (spmv)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
			0	ML	0			2" Asphalt
			0	ML	5			Silt (ML): moist, dark brown, soft, non-plastic, no odor or stain.
			0	ML	5			Cloey Silt (ML): moist, dark reddish-brown, medium stiff, non-plastic, no odor or stain.
			0	SM	10			Silly Sand (SM): moist, brown, medium dense, no odor or stain.
								Total Depth = 11 feet bgs. No Groundwater Encountered
					15			
					20			
					25			

PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/25/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

WELL DIAGRAM		Blows	OW (spmv)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
			0	ML	0			2" Asphalt
			0	ML	4.25			Gravelly Sandy Silt (ML): moist, brown, soft, non-plastic, no odor or stain.
			0	SM	4.25			Silly Sand (SM): moist, brown, dense, no odor or stain.
								Total Depth = 4.25 feet bgs. No Groundwater Encountered
					10			
					15			
					20			
					25			

PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/25/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>4.25 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF C6

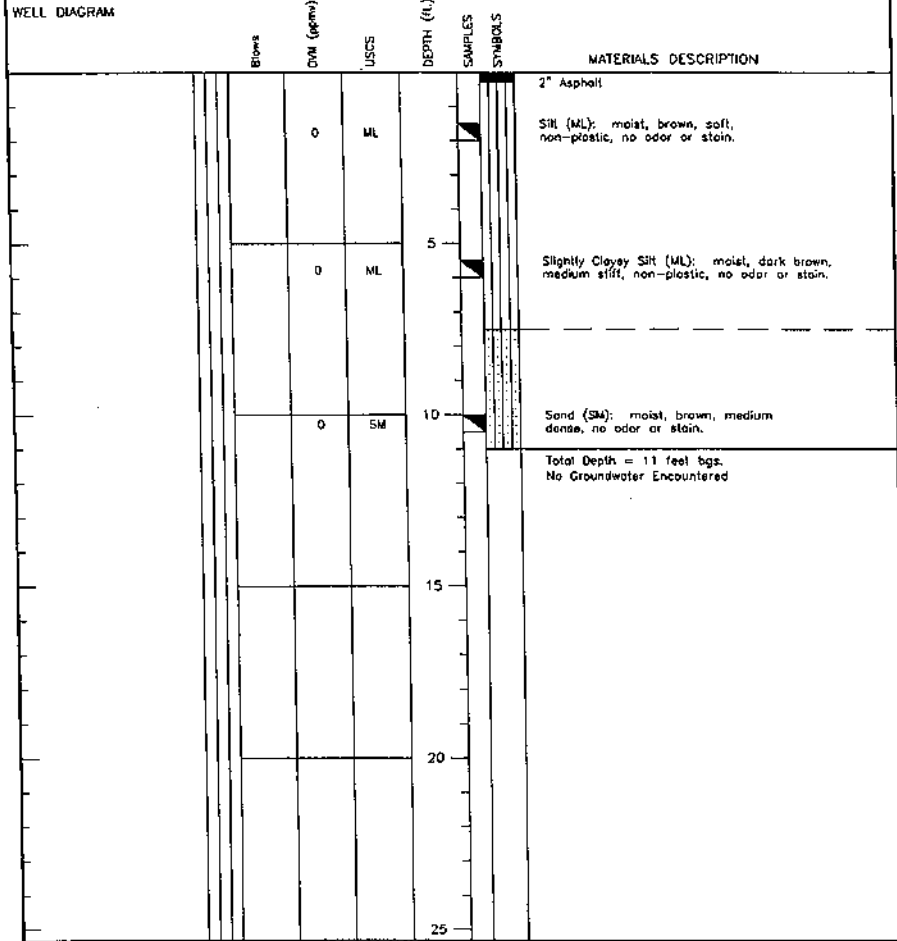
WELL DIAGRAM				DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
Blows	OW (ppmv)	USCS					
				0			2" Asphalt
	0	ML		5			Silt (ML): moist, dark brown, soft, non-plastic, no odor or stain.
	0	ML		5			Cloyey Silt (ML): moist, dark reddish-brown, medium stiff, no odor or stain.
	0	SM		10			Gravelly Sand (SM): moist, brown, dense, no odor or stain.
Total Depth = 11 feet bgs. No Groundwater Encountered							
				15			
				20			
				25			

PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/25/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsan</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

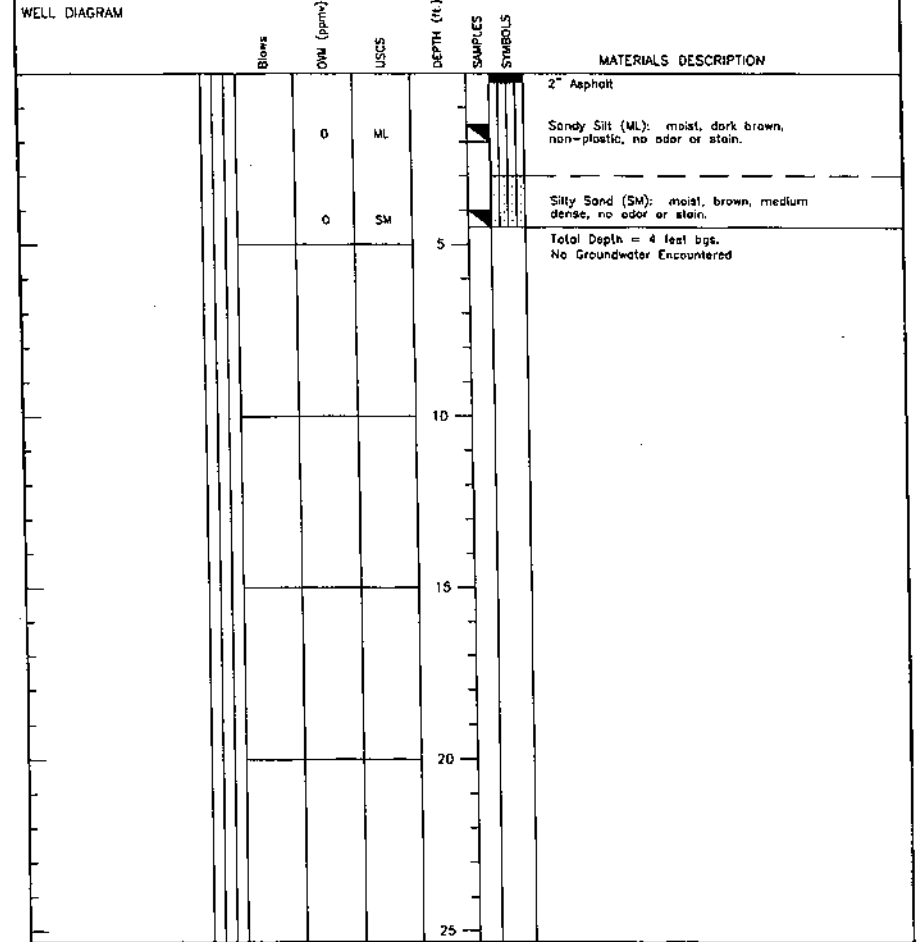
LOG OF C7

WELL DIAGRAM				DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
Blows	OW (ppmv)	USCS					
				0			2" Asphalt
	0	ML		5			Very Fine Sandy Silt (ML): moist, dark brown, soft, non-plastic, no odor or stain.
	0	ML		5			Cloyey Silt (ML): moist, dark reddish-brown, medium stiff, no odor or stain.
	0	SM		10			Gravelly Sand (SM): moist, brown, medium dense, no odor or stain.
Total Depth = 11 feet bgs. No Groundwater Encountered							
				15			
				20			
				25			

PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/25/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsan</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>



PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/25/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>



PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/25/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>4 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF C10

WELL DIAGRAM		Blows	DNV (gpm)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
								2" Asphalt
			0	ML				Silt (ML): moist, dark brown, soft, non-plastic, no odor or stain.
			0	ML	5			Silt (ML): As Above
			0	SM	10			Silly Sand (SM): moist, brown, medium dense, no odor or stain.
								Total Depth = 11 feet bgs. No Groundwater Encountered
					15			
					20			
					25			

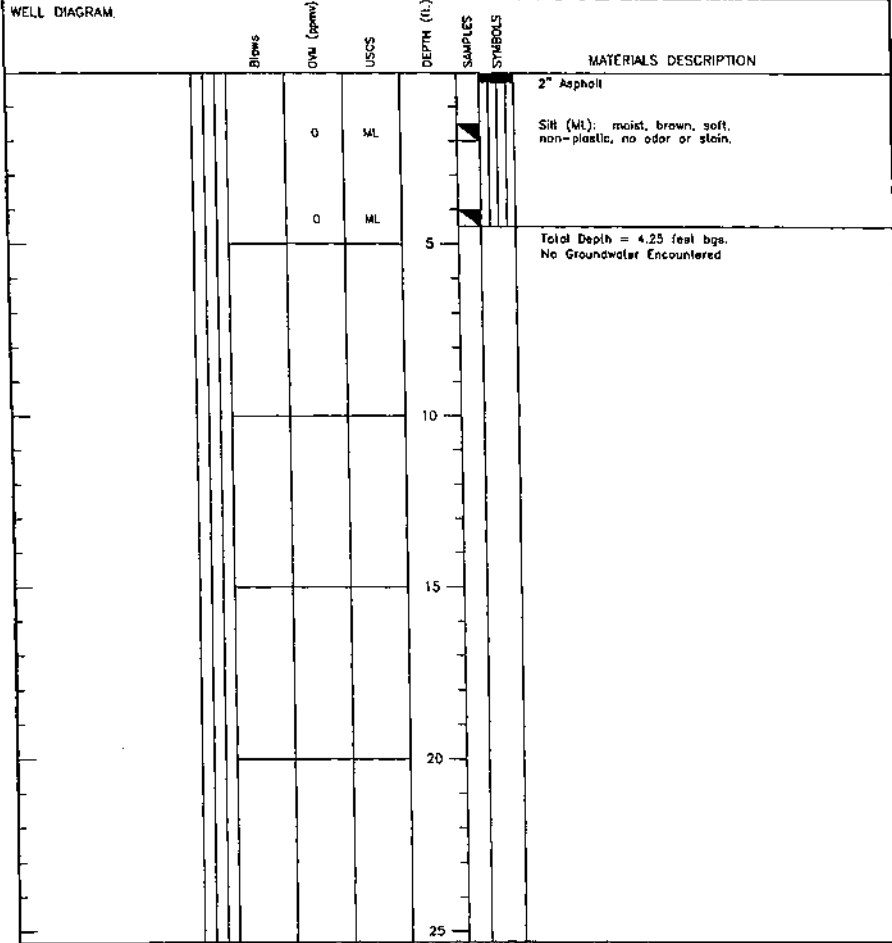
PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/25/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Solmosen</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF C11

WELL DIAGRAM		Blows	DNV (gpm)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
								2" Asphalt
			0	ML				Silt (ML): moist, brown, soft, non-plastic no odor or stain.
			0	ML	5			Silt (ML): As Above
			0	SM	10			Silly Sand (SM): moist, brown, medium dense, no odor or stain.
								Total Depth = 11 feet bgs. No Groundwater Encountered
					15			
					20			
					25			

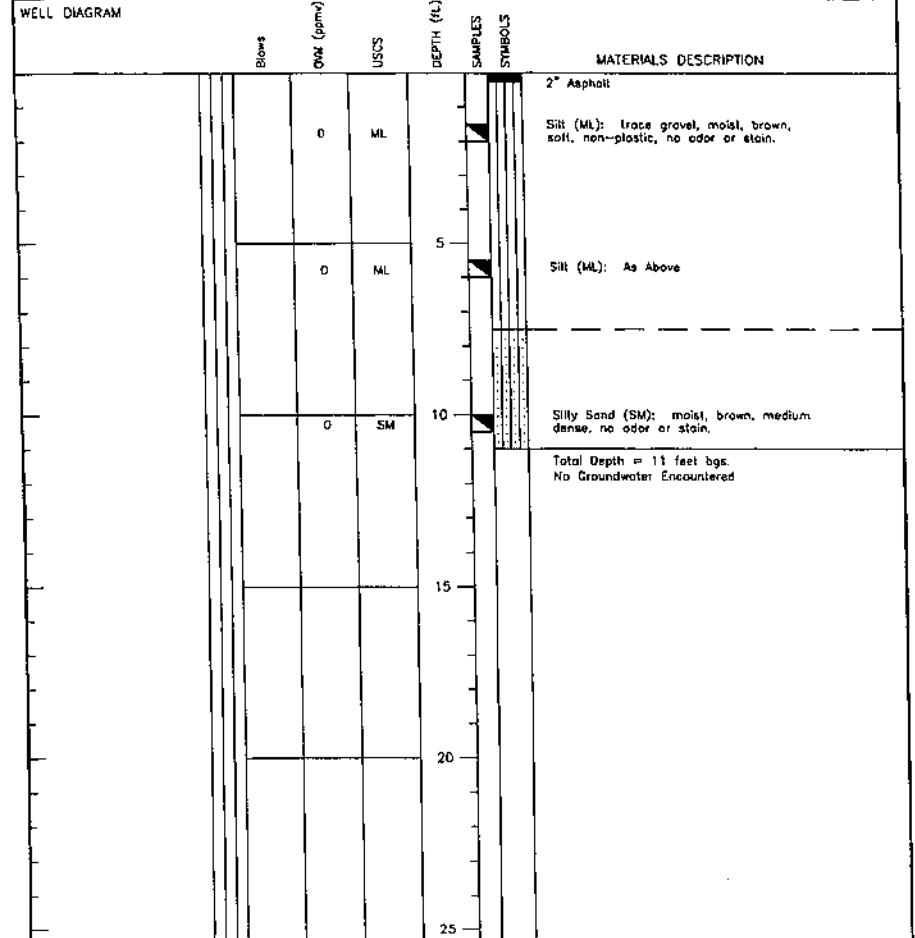
PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/25/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Solmosen</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF C12

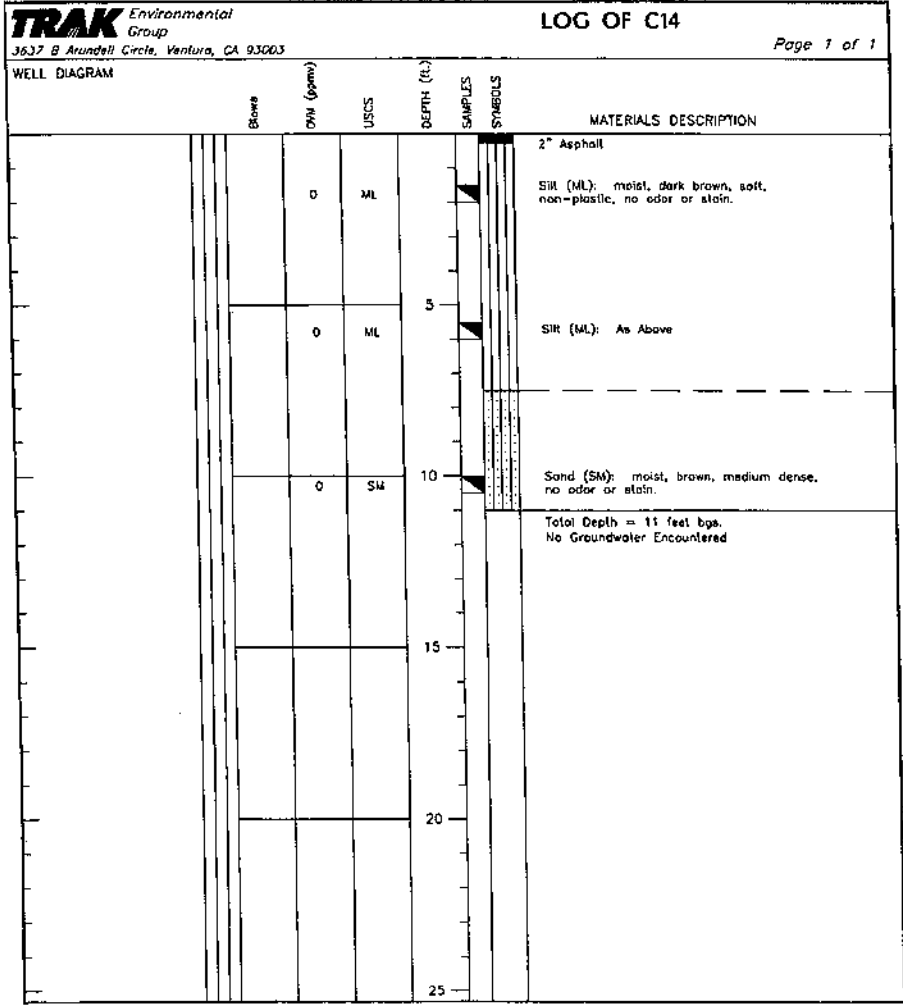


PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/25/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Selmonsén</u>	TOTAL DEPTH OF HOLE <u>4.25 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

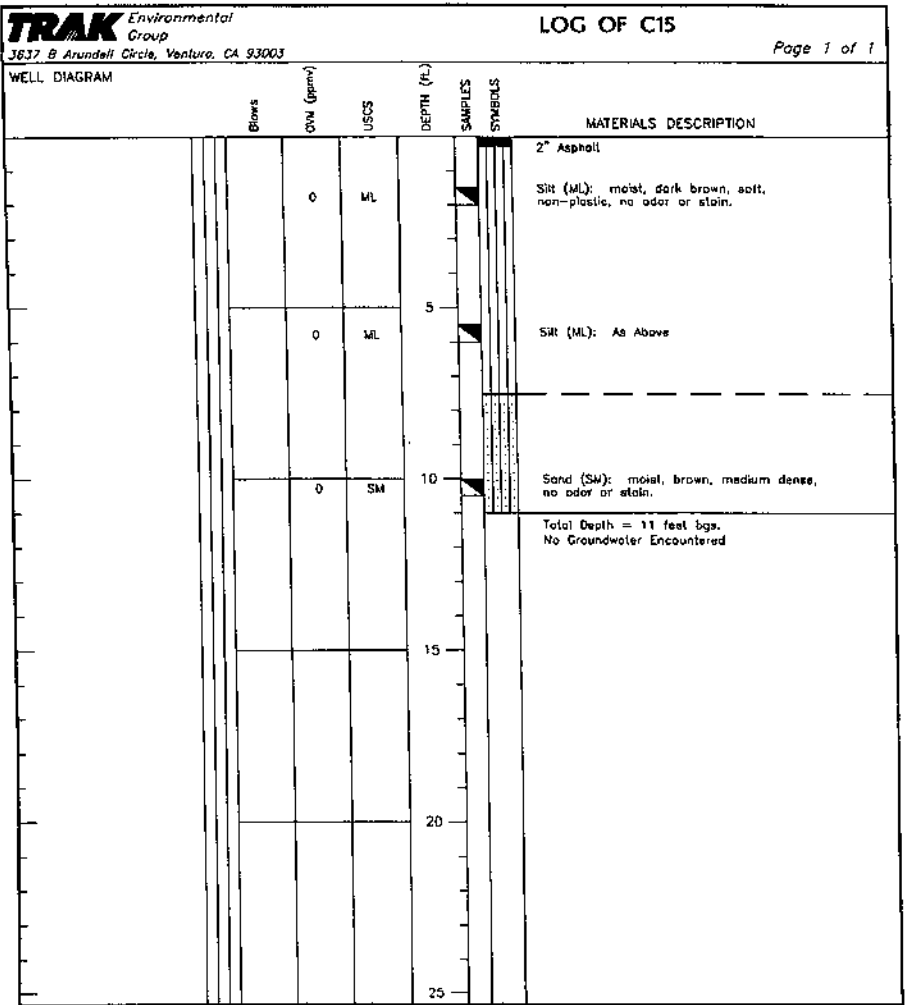
LOG OF C13



PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/25/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Selmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>



PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/25/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>



PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/25/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF C16

WELL DIAGRAM		Blows	DNV (ppmv)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
								2" Asphalt
			0	ML				Gravelly Silt (ML): moist, brown, soft, non-plastic, no odor or stain.
			0	ML	5			Clayey Silt (ML): moist, dark reddish-brown, medium stiff, non-plastic, no odor or stain.
			0	SM	10			Sand (SM): moist, brown, medium dense, no odor or stain.
								Total Depth = 11 feet bgs. No Groundwater Encountered
					15			
					20			
					25			

PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/25/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmansen</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF C17

WELL DIAGRAM		Blows	DNV (ppmv)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
								2" Asphalt
			0	ML				Silt (ML): moist, brown, soft, non-plastic, no odor or stain.
			0	ML	5			Clayey Silt (ML): moist, dark reddish-brown, medium stiff, non-plastic, no odor or stain.
			0	SM	10			Sand (SM): moist, brown, medium dense, no odor or stain.
								Total Depth = 11 feet bgs. No Groundwater Encountered
					15			
					20			
					25			

PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/25/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmansen</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF D1

WELL DIAGRAM			DEPTH (ft.)	SAMPLES	SAMPLES	MATERIALS DESCRIPTION
Blows	DNM (ppmv)	USCS				
			0	ML	▲	2" Asphalt
			0	ML		Silt (ML): moist, dark brown, soft, non-plastic, no odor or stain.
			5	ML	▲	Silt (ML): moist, dark reddish-brown, soft, non-plastic, no odor or stain.
			10	SP	▲	Sand (SP): trace gravel (1/4"), moist, brown, medium dense, no odor or stain.
						Total Depth = 11 feet bgs. No Groundwater Encountered
			15			
			20			
			25			

PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF D2

WELL DIAGRAM			DEPTH (ft.)	SAMPLES	SAMPLES	MATERIALS DESCRIPTION
Blows	DNM (ppmv)	USCS				
			0	ML	▲	2" Asphalt
			0	ML		Silt (ML): moist, dark brown, soft, non-plastic, no odor or stain.
			5	ML	▲	Silt (ML): moist, dark reddish-brown, soft, non-plastic, no odor or stain.
			10	SP	▲	Very Fine Grained Sand (SP): trace gravel (1") and coarse sand, moist, light brown, medium dense, no odor or stain.
						Total Depth = 11 feet bgs. No Groundwater Encountered
			15			
			20			
			25			

PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF D3

WELL DIAGRAM		Blows	OW (ppmv)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
			0	ML	0			2" Asphalt
			0	ML	5			Silt (ML): moist, dark brown, soft, non-plastic, no odor or stain.
			0	ML	10			Silt (ML): moist, dark reddish-brown, soft, non-plastic, no odor or stain.
			0	SM	10			Silty Sand (SM): trace angular gravel (1/4"), moist, brown, medium dense, no odor or stain.
								Total Depth = 11 feet bgs. No Groundwater Encountered
					15			
					20			
					25			

PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF D4

WELL DIAGRAM		Blows	OW (ppmv)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
			0	ML	0			2" Asphalt
			0	ML	5			Sandy Silt (ML): moist, dark brown, soft, non-plastic, no odor or stain.
			0	ML	10			Sandy Silt (ML): As Above
			0	SP	10			Sand (SP): trace gravel (1"), moist, light brown, medium dense, no odor or stain.
								Total Depth = 11 feet bgs. No Groundwater Encountered
					15			
					20			
					25			

PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF D5

WELL DIAGRAM						
Blows	QTM (ppmv)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
	0	ML	0-2	▲	▬	2" Asphalt
	0	ML	2-5	▲	▬	Silt (ML): moist, dark brown, soft, non-plastic, no odor or stain.
	0	ML	5-10	▲	▬	Silt (ML): As Above
	0	SP	10-11	▲	▬	Sand (SP): moist, light brown, medium dense, no odor or stain.
Total Depth = 11 feet bgs. No Groundwater Encountered						
			15			
			20			
			25			

PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF D6

WELL DIAGRAM						
Blows	QTM (ppmv)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
			0-2	▲	▬	2" Asphalt
	0	ML	2-5	▲	▬	Sandy Silt (ML): moist, dark brown, soft, non-plastic, no odor or stain.
	0	ML	5-10	▲	▬	Silt (ML): moist, dark reddish-brown, soft, non-plastic, no odor or stain.
	0	SM	10-11	▲	▬	Silty Sand (SM): moist, light brown, medium dense, no odor or stain.
Total Depth = 11 feet bgs. No Groundwater Encountered						
			15			
			20			
			25			

PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF D7

WELL DIAGRAM		Blows	OML (ppmv)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
			0	ML	0			2" Asphalt
			0	ML	2.5			Sandy Silt (ML): moist, dark brown, soft, non-plastic, no odor or stain.
			0	ML	5			Silt (ML): moist, dark reddish-brown, soft, non-plastic, no odor or stain.
			0	SM	10			Silty Sand (SM): moist, light brown, medium dense, no odor or stain.
					11			Total Depth = 11 feet bgs. No Groundwater Encountered
					15			
					20			
					25			

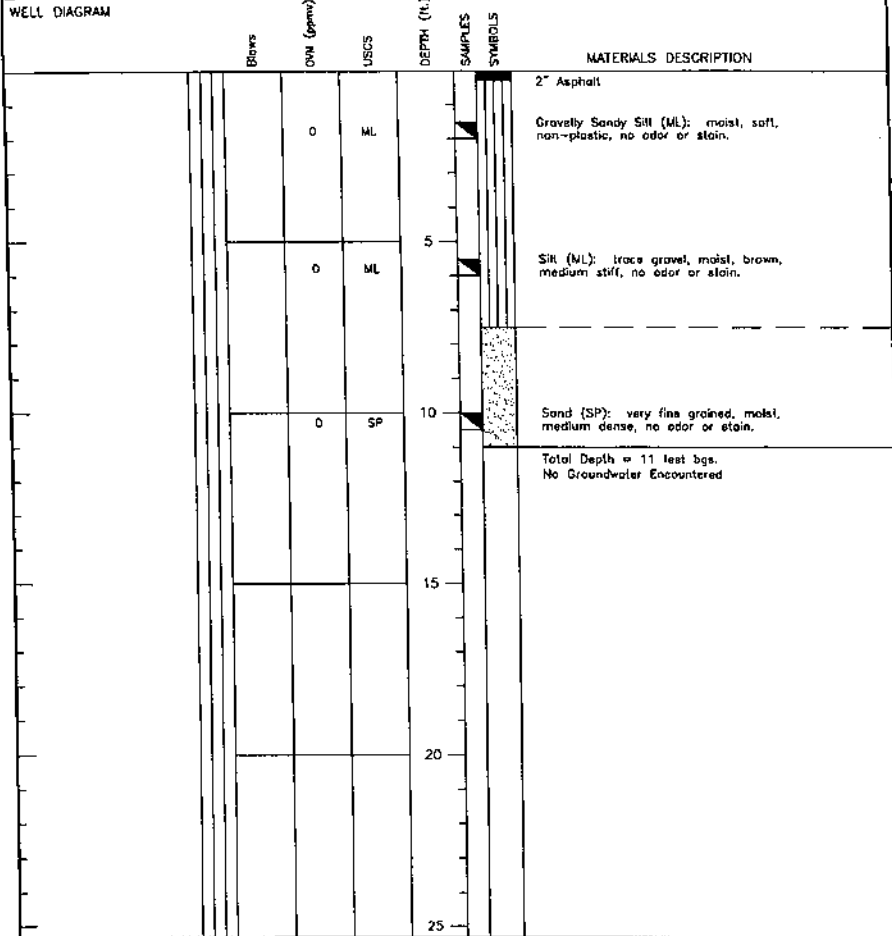
PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF D8

WELL DIAGRAM		Blows	OML (ppmv)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
			0	ML	0			2" Asphalt
			0	ML	2.5			Sandy Silt (ML): moist, dark brown, soft, non-plastic, no odor or stain.
			0	ML	5			Silt (ML): moist, dark reddish-brown, soft, non-plastic, no odor or stain.
			0	SM	10			Silty Sand (SM): moist, light brown, medium dense, no odor or stain.
					11			Total Depth = 11 feet bgs. No Groundwater Encountered
					15			
					20			
					25			

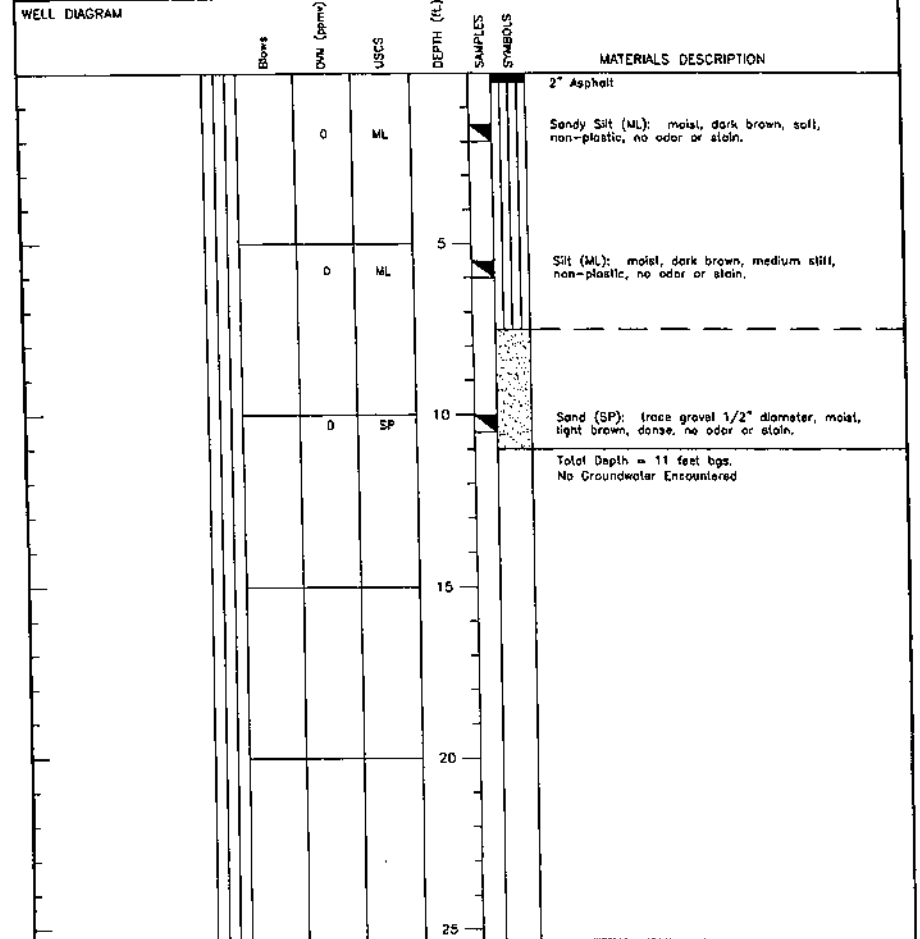
PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF F1

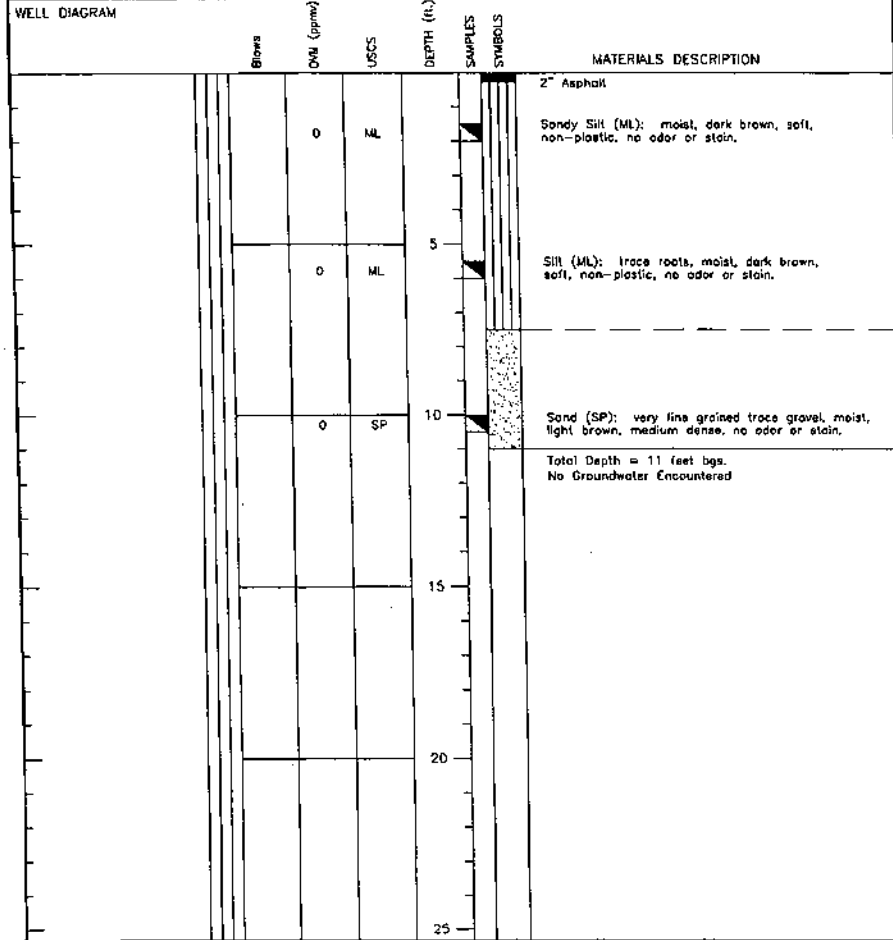


PROJECT	DRILLING COMPANY <u>Vironex</u>
LOCATION	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

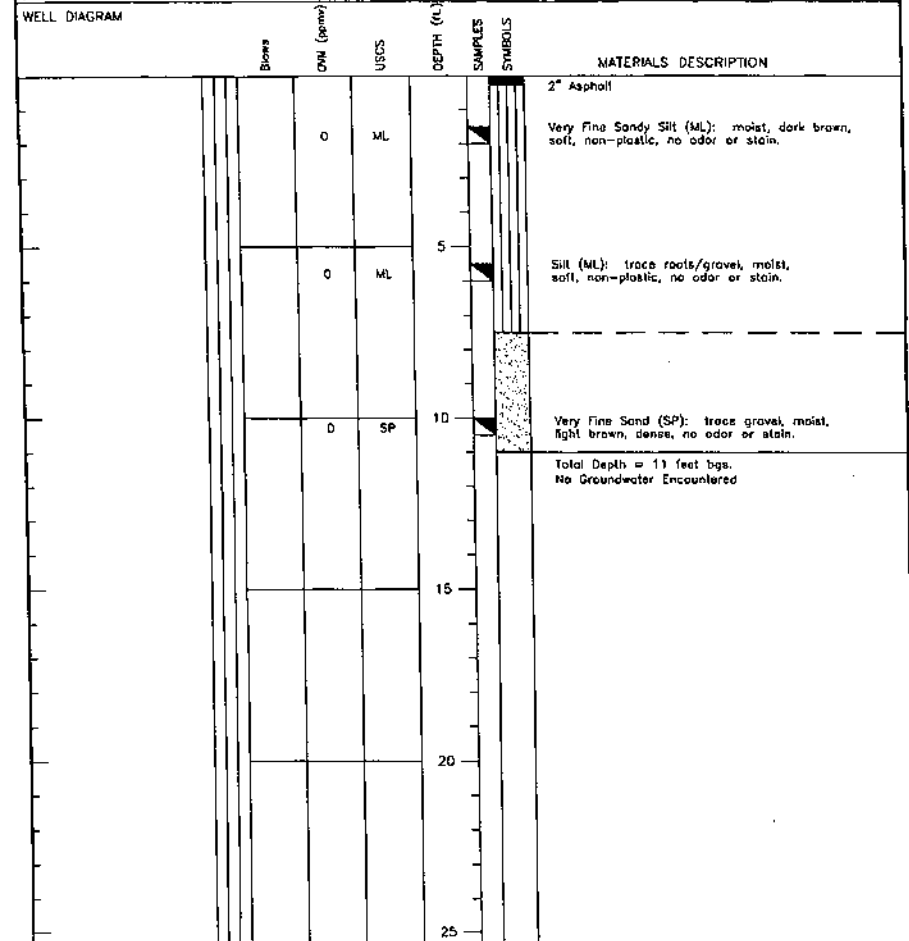
LOG OF F2



PROJECT	DRILLING COMPANY <u>Vironex</u>
LOCATION	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>



PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>



PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF F5

WELL DIAGRAM		Blows	OWI (ppmv)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
					0			4" Concrete
			0	ML	0-5			Sandy Silt (ML): moist, dark brown, soft, non-plastic, no odor or stain.
			0	ML	5-10			Sandy Silt (ML): As Above
			0	SP	10-11			Sand (SP): very fine grained, moist, light brown, medium dense, no odor or stain.
Total Depth = 11 feet bgs. No Groundwater Encountered								
					15			
					20			
					25			

PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF F6

WELL DIAGRAM		Blows	OWI (ppmv)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
					0			4" Concrete
			0	ML	0-5			Gravelly Sandy Silt (ML): moist, dark brown, soft, non-plastic, no odor or stain.
			0	ML	5-10			Silt (ML): moist, dark brown, medium stiff, non-plastic, no odor or stain.
			0	SP	10-11			Very Fine Grained Sand (SP): moist, light brown, medium dense, no odor or stain.
Total Depth = 11 feet bgs. No Groundwater Encountered								
					15			
					20			
					25			

PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

LOG OF F7

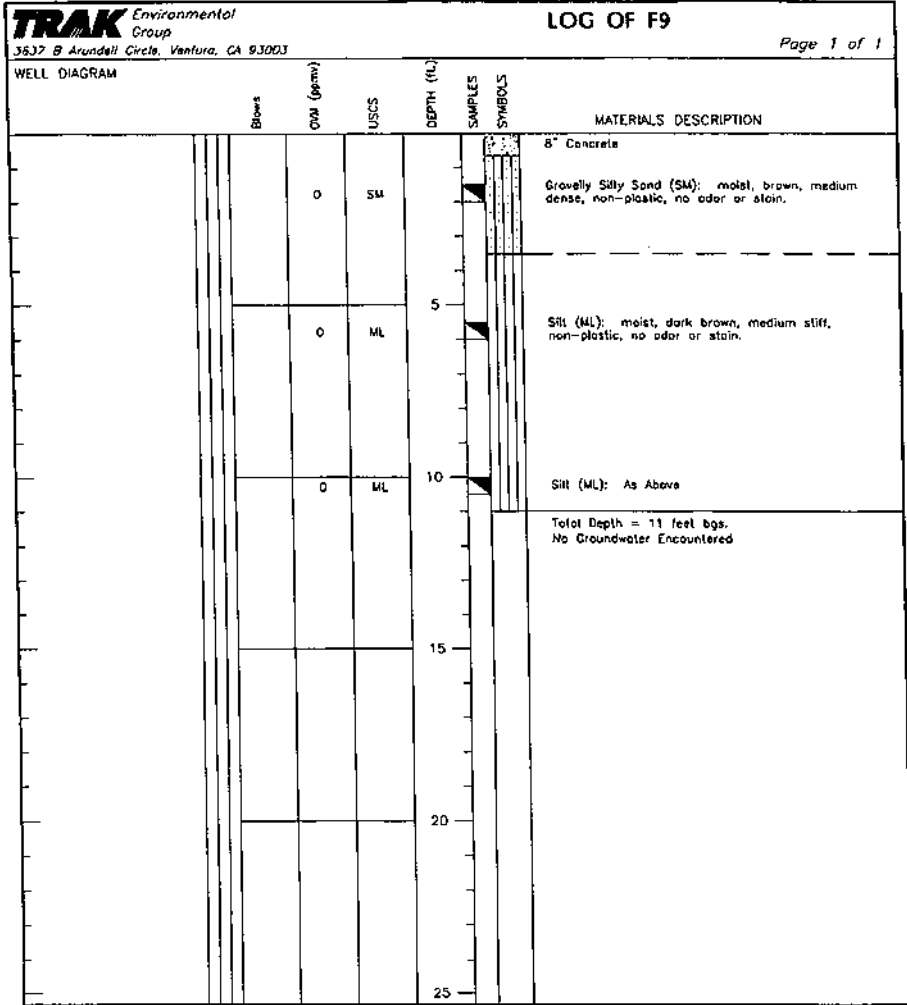
WELL DIAGRAM		Blows	OW (gpm)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
			0	ML	0			4" Concrete
			0	ML	5			Gravelly Silt (ML): moist, dark brown, soft, non-plastic, no odor or stain.
			0	ML	10			Silt (ML): trace gravel 1/4" diameter, moist, dark brown, soft, non-plastic, no odor or stain.
			0	SP	10			Very Fine Grained Sand (SP): moist, light brown, medium dense, trace gravel 1" diameter, no odor or stain.
								Total Depth = 11 feet bgs. No Groundwater Encountered
					15			
					20			
					25			

PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmansen</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

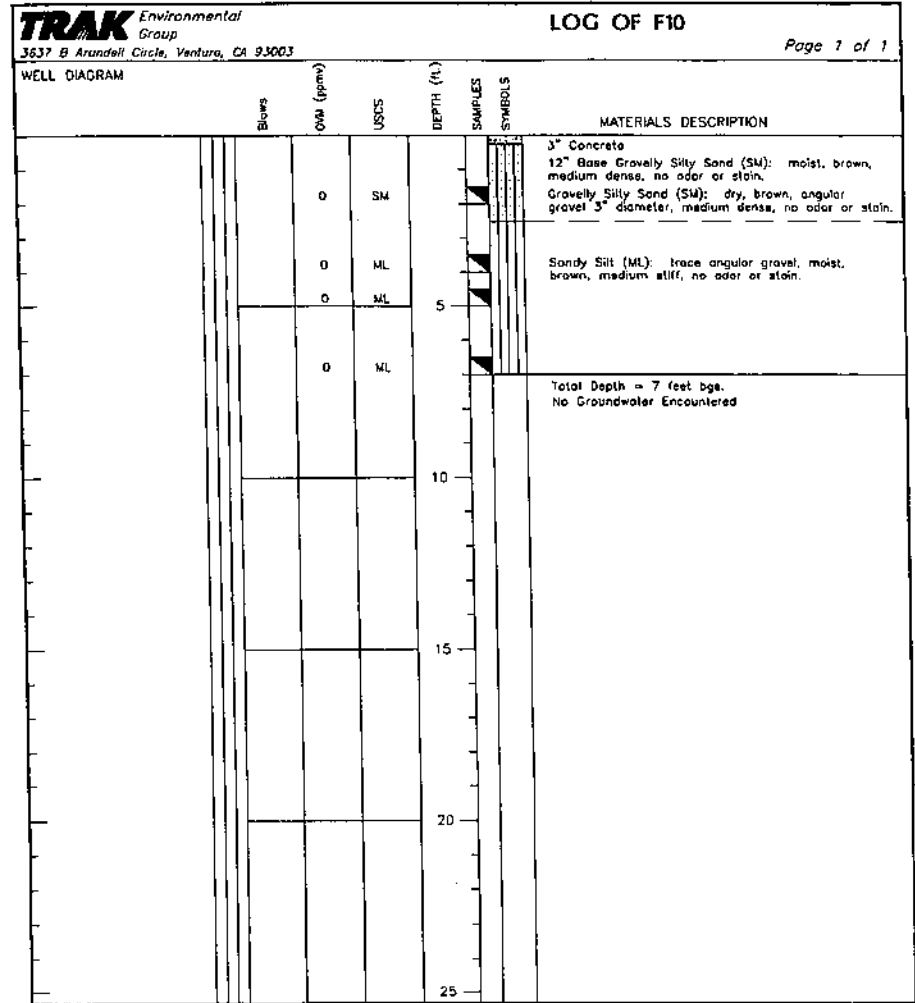
LOG OF F8

WELL DIAGRAM		Blows	OW (gpm)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
			0	ML	0			4" Concrete
			0	ML	5			Silt (ML): moist, dark brown, soft, non-plastic, no odor or stain.
			0	ML	10			Silt (ML): trace gravel 1/4", moist, dark brown, soft, non-plastic, no odor or stain.
			0	SP	10			Sand (SP): trace gravel 1", moist, light brown, medium dense, no odor or stain.
								Total Depth = 11 feet bgs. No Groundwater Encountered
					15			
					20			
					25			

PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmansen</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>



PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>11 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>



PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsén</u>	TOTAL DEPTH OF HOLE <u>7 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>

WELL DIAGRAM		Blows	Oil (ppm)	USCS	DEPTH (ft.)	SAMPLES	SYMBOLS	MATERIALS DESCRIPTION
			0	SM	0			3" Concrete
					5			Gravelly Sandy Silt (ML): moist, dark brown, medium stiff, no odor or stain.
					10			Total Depth = 1 feet bgs. No Groundwater Encountered
					15			
					20			
					25			

PROJECT _____	DRILLING COMPANY <u>Vironex</u>
LOCATION _____	DATE DRILLED <u>10/22/2004</u>
JOB NUMBER <u>N/A</u>	SURFACE ELEVATION <u>N/A</u>
GEOLOGIST <u>Paul Salmonsan</u>	TOTAL DEPTH OF HOLE <u>1 ft. bgs.</u>
DRILL RIG <u>N/A</u>	WATER LEVEL <u>N/A</u>



ENVIRONMENTAL
 ENGINEERING-GEOLOGY
 GEOTECHNICAL ENGINEERING

PRELIMINARY SOILS ENGINEERING
 INVESTIGATION FOR PROPOSED
 FOUR TO SIX-STORY MIXED-USE
 COMMERCIAL/RESIDENTIAL BUILDING
 WITH THREE-LEVEL SUBTERRANEAN GARAGE
 435 LOS FELIZ ROAD
 GLENDALE, CALIFORNIA

DECEMBER 17, 2004 GS04-1026

FOR
 URBAN HOUSING ALLIANCE, LLC
 2044 OVERLAND AVENUE
 LOS ANGELES, CA 90025
 ATTN: MR. GUY DEVORRIS



**PRELIMINARY SOILS ENGINEERING
INVESTIGATION FOR PROPOSED
FOUR TO SIX-STORY MIXED-USE
COMMERCIAL/RESIDENTIAL BUILDING
WITH 3-LEVEL SUBTERRANEAN GARAGE
435 LOS FELIZ ROAD
GLENDALE, CALIFORNIA**

INTRODUCTION

This report presents the results of our preliminary soils engineering investigation performed at the site located at 435 Los Feliz Road in the city of Glendale, California. The report includes a description and an evaluation of the subsurface materials, discusses the soil conditions, and provides soils engineering recommendations for the proposed four to six-story mixed-use commercial/residential building with 3-level subterranean garage at the subject site.

This report is intended for submittal to the appropriate governmental authorities that control the issuance of necessary permits and provides recommendations for the proposed development at the subject site.



Objective

The primary objective of this investigation was to provide our best estimate of the geotechnical factors that pertain to the gross stability of the site and to evaluate alternatives for a foundation system.

Location

The property is located at 435 Los Feliz Road, at the north-west corner of Los Feliz Road and Gardena Avenue, in the City of Glendale, California (Thomas guide page 564, grid D7).

SCOPE

The scope of our investigation involved the completion of the following:

1. Review of literatures and general geologic data including:
 - a) Los Angeles County Department of Public Works (2001). Manual for Preparation of Geotechnical Reports.
 - b) California Division of Mines and Geology (1997). Guidelines for Evaluating and Mitigating Seismic Hazards in California, Special Publication 117, 74 p.
 - c) Southern California Earthquake Center (1999). Recommended Procedures For Implementation of DMG Special Publication 117 - Guidelines for Analyzing and Mitigating Liquefaction In California, 63 p.
 - d) California Division of Mines and Geology (1998). Seismic Hazard Evaluation of the Hollywood Quadrangle, Los Angeles county, Open File Report.
 - e) Dibblee, Jr., T.W. (1992). Geologic Map of the Hollywood-Burbank (S½) Quadrangle, Dibblee Geological Foundation Map #DF-30.
 - f) California Division of Mines and Geology (1998). Seismic Hazard Zones Map, Hollywood Quadrangle.



2. Review of preliminary topographic maps and site development plans.
3. Geologic mapping of on site and near by earth materials.
4. Excavation and detailed logging of five (5) exploratory hollow stem borings in the general area of the proposed building to a maximum depth of 55 feet below existing grade.
5. Sampling of representative earth materials.
6. Laboratory testing.
7. Geotechnical analysis of field and laboratory data.
8. Preparation of Plot Plan, Regional Geological Map, Seismic Hazard Map and various graphs.
9. Presentation of our procedures, findings and recommendations.

PROPOSED DEVELOPMENT

The findings and recommendations contained in this report are based on preliminary plans provided by the client's representative and our subsurface exploration in the general area of the proposed development.

The proposed development consists of four- to six-story mixed-use commercial/ residential buildings with three-level subterranean garage at the subject site. The existing structures at the site will be removed. The proposed subterranean garage is approximate 34 feet below the existing grade. The proposed building layout is depicted in the attached Plot Plat (Plates 1 and CS-1).



SITE CONDITIONS

The subject site is a rectangular lot which measures approximately 365 feet along Los Feliz Road and 250 feet along Gradena Avenue. The site is essentially level and is currently occupied by one-story commercial buildings with surface parking lot, which will be removed.

The site is bordered by W. Los Feliz Road to the south, Gardena Avenue to the east, Fernando Court to the north, and rail road to the west. Drainage is by uncontrolled sheet flow to the adjacent street.

FIELD INVESTIGATION

The site was explored on November 3, 2004 by drilling five (5) truck-mounted hollow stem borings to a maximum depth of 55 feet below the existing grade to evaluate the subsurface conditions. The approximate boring locations are shown on Plate 1.

The "Standard Penetration Test" was conducted by driving a 2 inch O.D. split spoon into the soil using blows from a 140-pound hammer dropped 30 inches. The number of blows required to advance the split spoon the final 12 inches of a 18 inch drive is defined as the "Standard Penetration Resistance," N-value, and is shown on the attached Boring Logs. The N-value can generally be correlated with some significant physical properties of the soil encountered especially for coarse-grained material.

Soil samples were obtained for laboratory testing. The earth materials were logged in detail and are presented in the Log of Borings (Plates B-1 through B-5). No groundwater was encountered during our exploratory borings.



EARTH MATERIALS

The earth material encountered at the site consists of artificial fill and alluvium.

Artificial Fill (Af)

The artificial fill encountered at the site consists of 2 feet thick brown sandy silt (ML).

Fill depths may vary across the site. The artificial fill is not suitable for slab and foundation support.

Alluvium (Qa)

The alluvium encountered at the site consists of brown sandy silt (ML), brown silty sand (SM), and fine to medium sand with gravels (SP). The alluvium is dry to damp, and moderately dense to dense. The alluvium can be used for foundation support, and/or as a base to receive new compacted fill.

FAULTING AND SEISMICITY

No known faults with potential for surface rupture underlie the site. Nor is the site located within any Alquist Priolo Special Studies Zone. Based on the referenced map by Dibbie (1992), the inferred trace of the Hollywood fault is located approximately 300 feet south of the subject site.

Groundshaking

It is our opinion that future structures should be designed in accordance with the current seismic building code as determined by the structural engineer. The subject site is located within



Seismic Zone 4 and Soil Profile Type S_4 as outlined in the 1997 Uniform Building Code. The parameters presented on the following table, generated by the computer program UBCSEIS (Thomas F. Blake, 1997) for the "Type B" fault may be utilized for the seismic design:

Fault Type	Fault Name	Near Source Factor (Na)	Near Source Factor (Nv)	Seismic Coefficient (Ca)	Seismic Coefficient (Cv)
A	Cucamonga	1.0	1.0	0.44	0.64
B	Hollywood	1.3	1.6	0.57	1.02

Ground shaking resulting from a moderate to major earthquake (Magnitude 6.0 or greater) can be expected during the life span of the proposed structure. Property owners and the general public should be aware that any structure or slope in the southern California region could be subject to significant damage as a result of a moderate or major earthquake. The potential exists throughout southern California for strong ground motion similar to that which struck the Los Angeles region during the January 17, 1994, Northridge Earthquake. Several such destructive earthquakes have struck southern California during the span of recorded history.

Present building codes and construction practices, and the recommendations presented in this report are intended to minimize structural damage to buildings and loss of life as a result of a moderate or a major earthquake. They are not intended to totally prevent damage to structures, graded slopes and natural hillsides due to moderate or major earthquakes. While it may be possible to design structures and graded slopes to withstand strong ground motion, the construction costs associated with such designs are usually prohibitive, and the design restrictions may be



severely limiting. Earthquake insurance is often the only economically feasible form of protection for your property against major earthquake damage. Damage to sidewalks, steps, decks, patios and similar exterior improvements can be expected as these are not normally controlled by the building code.

At your request, this firm could conduct a site specific strong motion study to provide ground response data for use by a structural engineer to design structures to withstand a major earthquake. Such a study is not required by present building codes, and is beyond the scope of this investigation.

Major foundation problems are not anticipated as a result of earthquake induced liquefaction, fault ground rupture or displacement, and differential settlement of natural earth materials, provided the foundation system is constructed as herein recommended, within the limitations presented above.

Structural and cosmetic problems to sidewalks, steps, curbs, decks, and other such appurtenances, may be anticipated as these structures are not normally controlled by the building code.

Liquefaction Potential

The evaluation of liquefaction potential of the soils at the subject site is based on the following factors: material type, water level, relative density, gradation and intensity and duration of ground shaking.

Soil liquefaction is the sudden decrease of the shearing resistance of a loose state, saturated cohesionless soil under seismic condition. Typically sands and silts are potentially subject to liquefaction under these conditions. According to Seismic Hazard Zones Map (Plate 3), the site is not located in an area subject to liquefaction.



The alluvium which underlies the proposed development consists of sandy silt and silty medium to coarse sand with gravels, which are moderately dense to dense. These materials are not considered to be prone to liquefaction. Based on our consolidation testing, field standard penetration tests, and lack of shallow groundwater level, it is our opinion that the liquefaction potential at the subject site is very low.

LABORATORY TESTING

Laboratory tests were conducted on representative samples to determine engineering parameters and certain physical properties of the earth materials, consolidation, and shear strength characteristics were determined from these tests.

Consolidation

Consolidation tests were performed on in-situ moisture and saturated specimens of the native soil. The consolidometer, like the direct shear machine, is designed to receive the specimens in the field condition. Porous stones placed at the top and bottom of the specimens permits free flow of water into and from the specimens during the test. Successive load increments are applied to the top of the specimens and progressive and final settlements under each load increment are recorded to an accuracy of 0.001 inch. The consolidation curves of the results are shown in the Appendix (Plates C-1 through C-8).



Direct Shear

Direct shear tests were conducted on representative samples to determine their shear strength characteristics. The samples were saturated under normal load before testing. Shear loads were applied at a rate of 0.05 inch per minute in accordance with the undrained shear test procedure. Ultimate shear strength values for the samples tested are shown on Plates DS-1 through DS-4 and on following Table I:

TABLE I

Sample Location	Depth (ft)	Soil Type	Dry Unit Weight (pcf)	Cohesion (psf)	Friction Angle (degrees)
B-1	10	Qa	114.0	200	37
B-2	15	Qa	117.7	200	40
B-2	40	Qa	109.8	275	33
B-2	50	Qa	106.4	325	40
B-3	10	Qa	117.0	125	39
B-4	20	Qa	107.1	200	32
B-5	5	Qa	122.6	125	39
B-5	30	Qa	116.6	300	30

Maximum Laboratory Compaction

The maximum laboratory compaction and optimum moisture content of a typical soils was determined in accordance with ASTM Method D1557-00. The compaction test was made on the sample portion passing a #4 sieve. The soil is placed in a 4 inch diameter mold having a



1/30 cubic foot volume and compacted with 25 blows of a 10 pound hammer falling 18 inches on each of five layers. The maximum compaction curve of the soil was shown in Plate MD-1 in which the maximum dry density was 135.0 pcf at an optimum moisture content of 7.5 percent.

Corrosive Soils

Chemical tests for pH, chloride content, sulfate content and minimum resistivity were performed per California Test Method (CTM), on a sample of the surficial materials in the area of the proposed development. Minimum resistivity testing was conducted on a saturated sample of the soil. The laboratory test results based on CTM are presented below:

Sample Location	Depth (ft)	Soil Type	pH CTM 532	Chloride Content CTM 422 (ppm)	Sulfate Content CTM 417 (ppm)	Minimum Resistivity CTM 532 (ohm-cm)
B-3	7	Qa	7.5	80	2.4	39184
B-5	3	Qa	7.5	140	3.6	57512

The following determinations of soil corrosivity are based on Los Angeles County Manual for Preparation of Geotechnical Reports (LA County, 2001.) An engineer specializing in corrosion protection and concrete design should be consulted if additional protection is desirable.

- 1) Soils are considered corrosive when pH gets down around 4.0.
- 2) Large concentrations of chlorides will adversely affect ferrous materials, such as, iron and steel. When chloride concentrations exceeds 10,000 parts per million (ppm), mitigation measures must be taken to protect any steel reinforcing within concrete and any steel pipe or cast iron that serve the development.



- 3) When soluble sulfate concentrations are greater than 2,000 ppm in soil and 1,000 ppm in groundwater, mitigation measures must be taken to protect any concrete structures in contact with soils.
- 4) The relationship between soil resistivity and corrosivity is shown in the following table (LA County, 2001). As the soil resistivity decreases, the corrosivity increases. Mitigation must be recommended when test results indicate the soil to be moderately corrosive or worse.

Corrosivity Category	Severely Corrosive	Corrosive	Moderately Corrosive	Mildly Corrosive
Soil Resistivity (Ohm-cm)	0 - 1,000	1,000 - 2,000	2,000 - 10,000	over 10,000

In accordance with Los Angeles County Manual for Preparation of Geotechnical Reports, the resistivity level of the soils tested are considered to be "mildly corrosive" to ferrous metals. Underground steel utilities should be given a high quality protective coating such as 40 mil extruded polyethylene, 20 mil plastic tape over primer per AWWA Standard C209, or hot applied coal tar enamel or tape per AWWA Standard C203. All under-ground steel should be electrically insulated from above ground steel, dissimilar metals, and cement-mortar or concrete coated steel. Underground steel pipe should be bonded for electrical continuity if rubber gasketed, mechanical, grooved end, or other nonconductive type joints are used. In addition, cathode protection is recommended for underground steel utilities. No special precautions are required for copper, asbestos-cement or plastic utilities placed underground from a corrosion viewpoint. However, any iron valves or fittings should be protected as mentioned above.



In accordance with Los Angeles County Manual for Preparation of Geotechnical Reports, the sulfate content of the soil at the site is considered to be low, standard construction practices and concrete mixes may be used for concrete in contact with the on-site soils using Types I, II or III cement.

RECOMMENDATIONS

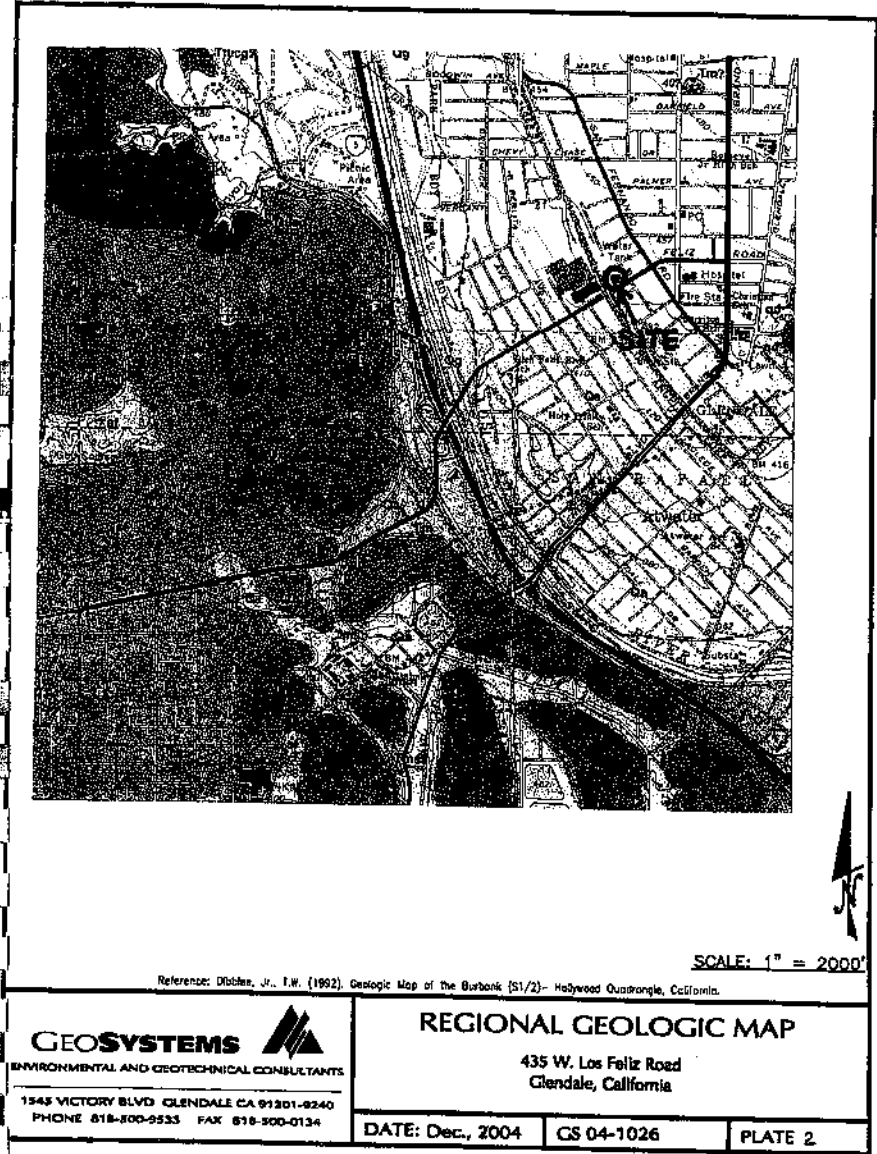
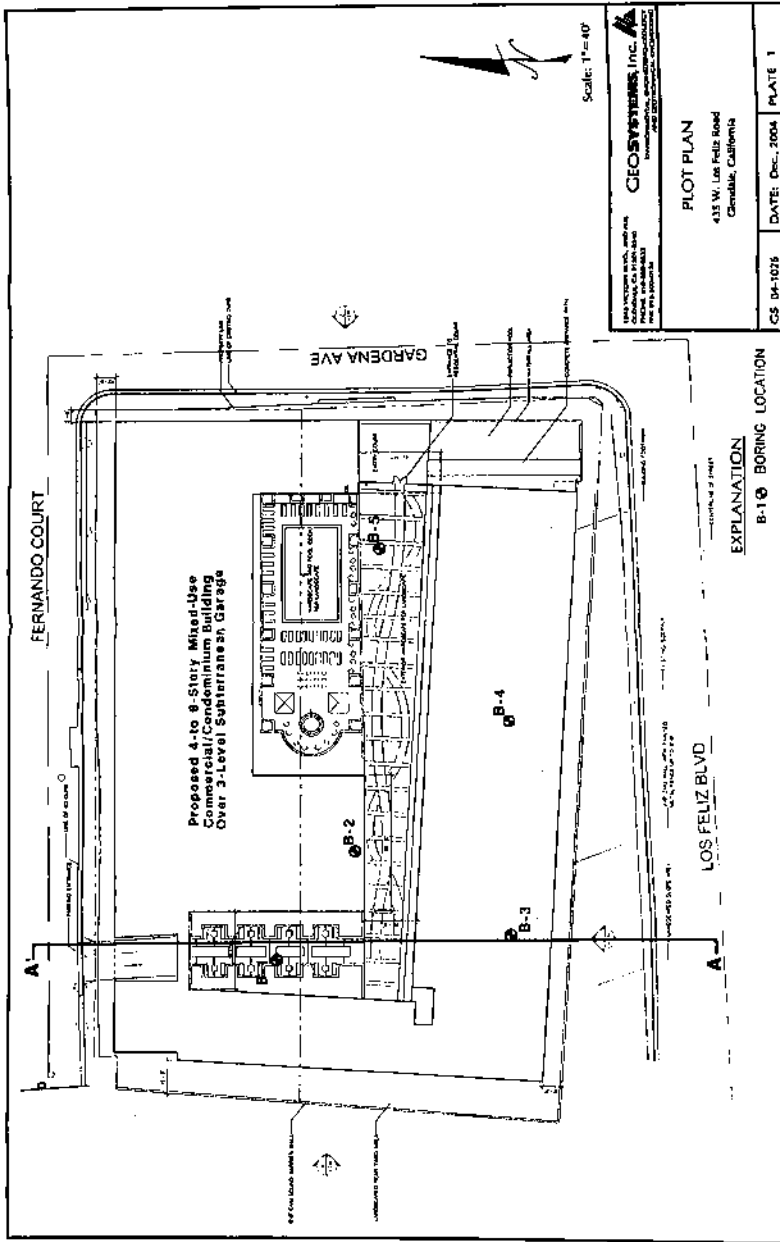
Based on the findings of our investigation, the site is considered to be suitable from a soils engineering standpoint for the proposed a four to six-story mixed-use commercial/residential building over subterranean garage provided the recommendations included herein are followed and integrated into the foundation and shoring plan.

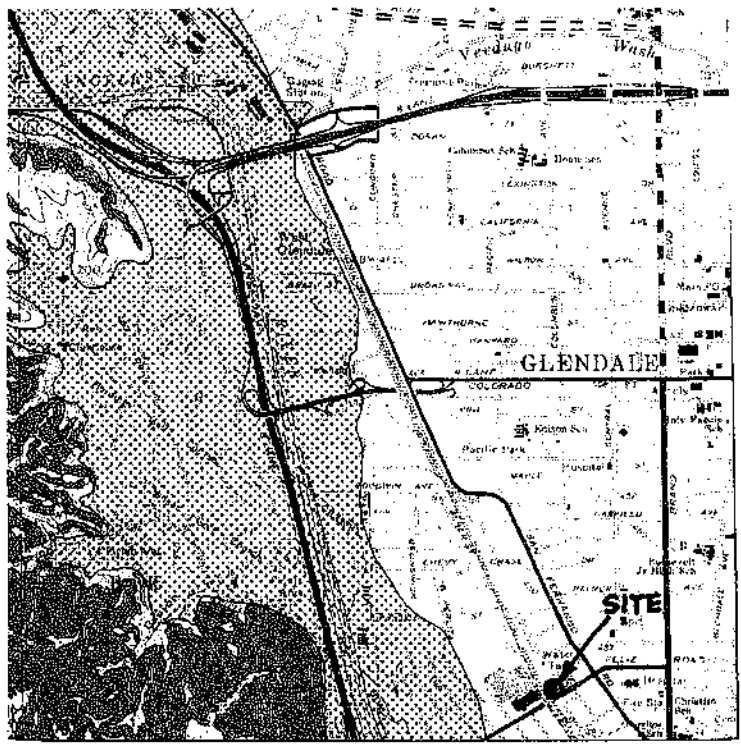
Site Clearance

Demolition debris and other unsuitable materials should be stripped and removed from the site. Water lines or other old utility lines or installations to be abandoned should be removed or crushed in place. Old septic tanks and cesspools, if any should be backfilled in accordance with regulations of the controlling agencies. Holes resulting from removal of buried obstructions which extend below finished site grades should be backfilled with compacted soils.



Expansive Soils

Based on our soil classification at the site, the soils in the area of the proposed development are considered to be low in expansion potential. Special treatment for expansive soils are not considered to be necessary.





EXPLANATION

-  Liquefaction zone
-  Earthquake-induced landslides zone

SCALE: 1" = 2000'

Reference: California Division of Mines and Geology (1998). Seismic Hazard Zones Map, Burbank Quadrangle, California.

GEO SYSTEMS
 ENVIRONMENTAL AND GEOTECHNICAL CONSULTANTS
 1845 VICTORY BLVD., 2ND FLR., GLENDALE CA 91201-0240
 PHONE 818-500-9533 FAX 818-500-0134

SEISMIC HAZARD ZONES MAP
 435 W. Los Feliz Road
 Glendale, California
 DATE: Dec., 2004 GS 04-1026 PLATE 3

SPI = Standard Pen Sampler R = Ring Sampler (2.41" I.D.)						■ = Sample location		BORING LOG B-1	
Dry Density (pcf)	Moisture (%)	Blowcount	Sample Type	Depth (ft)	U.S.C.S. Class.	Lithologic Description			
121.9	12.0	11	R	5	ML	0-2' Artificial Fill (Af) Sandy silt, brown, damp Surface: 3" asphalt with base materials 2'-30' Alluvium (Qa)			
				5	ML/SM	@5' Sandy silt, brown, damp, moderately dense			
114.0	5.4	66	R	10	SM	@10' Silty medium sand, brown, dry to damp, dense			
125.0	8.2	44	R	15	SM	@15' Fine to medium sand, brown, dry, dense			
87.8	3.4	31	R	20	SP	@20' Medium sand, slightly silty, brown, dry, dense			
107.5	5.5	62	R	25	SP	@25' Fine to medium sand with gravels, brown, dry, dense			
114.2	5.3	38	R	30	SP	@30' Medium sand with gravels, brown, damp, dense			
				35		No Groundwater Encountered No Caving Total Depth: 30.0 ft			
				40					
				45					
				50					
				55					
				60					

GEO SYSTEMS
 ENVIRONMENTAL ENGINEERING-GEOTECHNICAL AND GEOTECHNICAL ENGINEERING
 1845 VICTORY BLVD., 2ND FLR., GLENDALE CA 91201-0240
 PHONE 818-500-9533 FAX 818-500-0134

Project: 435 W. Los Feliz Road
 Glendale, California
 Date Drilled: 11/3/04 Elevation: N/A
 Rig Type: 8 in. o.d. Hollow Stem
 Logged By: SCI
 GS # 04-1026

This log of subsurface conditions applies only at the specific location and the data indicated. Subsurface conditions may differ at other locations and times.

SPT = Standard Pen Sampler
 R = Ring Sampler (2.41" i.d.)

BORING LOG B-2

Dry Density (pcf)	Moisture (%)	Blowcount	Sample type	Depth (ft)	U.S.C.S. Class.	Lithologic Description
				0	ML	0-2' Artificial Fill (AF) Clayey silty silt, brown, damp Surface: 4" asphalt with base materials
				2	ML / SM	2'-55' Alluvium (Oa)
				5	ML / SM	⑤' Silty silt, brown, damp, moderately dense
		75	R	10	SM	⑩' No recovery, some silty sand with gravels remained
117.7	16.2	25	R	15	SM	⑮' Silty medium to coarse sand, brown, damp, moderately dense
109.8	6.6	28	R	20	SP / SM	⑳' Fine to Medium sand, slightly silty, brown, dry, dense
105.2	5.3	42	R	25	SP	㉕' Fine sand with gravels, brown, dry, dense
105.2	5.3	37	R	30	SP	⑳' Silty fine sand, brown, dry, dense
115.5	17.5	43	R	35	SM	㉓' Silty fine sand, brown, dry to damp, moderately dense
109.8	13.3	58	R	40	SP	④' Fine to medium sand with gravels, brown, damp, dense
108.1	4.5	47	R	45	SP	⑤' Medium sand, gravelly, brown, dry, dense
106.4	5.5	69	R	50	SP / SM	⑤' silty medium sand with numerous gravels, brown, dry, dense
			R	55		⑤' No recovery, encountered very dense gravelly layer
No Groundwater Encountered No Caving Total Depth: 55.0 ft.						

GEO SYSTEMS
 ENVIRONMENTAL, ENGINEERING-GEOTECHNICAL
 AND GEOTECHNICAL ENGINEERING
 1345 VICTORY BLVD, 2ND FLR., GLENDALE CA 91201-9240
 PHONE 818-500-9533 FAX 818-500-0134

Project: 435 W. Los Feliz Road
 Glendale, California
 Date Drilled: 11/3/04 Elevation: N/A
 Rig Type: 8 in. o.d. Hollow Stem
 Logged By: SCI
 GS # 04-1106

SPT = Standard Pen Sampler
 R = Ring Sampler (2.41" i.d.)

BORING LOG B-3

Dry Density (pcf)	Moisture (%)	Blowcount	Sample type	Depth (ft)	U.S.C.S. Class.	Lithologic Description
				0	ML	0-2' Artificial Fill (AF) Sandy silt, brown, damp Surface: 3" asphalt with base materials
				2	ML / SM	2'-30' Alluvium (Oa)
				5	ML / SM	⑤' Silty silt to silty sand, brown, damp, moderately dense
121.3	12.0	13	R	5	ML / SM	
117.0	8.4	20	R	10	SM	⑩' Silty medium sand, brown, dry to damp, moderately dense
97.5	7.2	27	R	15	SM	⑮' Fine to medium sand, brown, dry, moderately dense
108.0	3.8	40	R	20	SP	⑳' Medium sand, slightly silty, brown, dry, dense
107.9	3.3	70	R	25	SP	㉕' Fine to medium sand with gravels, brown, dry, dense
113.0	16.8	24	R	30	SP	③' Medium sand, gravelly, brown, damp, moderately dense
No Groundwater Encountered No Caving Total Depth: 30.0 ft.						

GEO SYSTEMS
 ENVIRONMENTAL, ENGINEERING-GEOTECHNICAL
 AND GEOTECHNICAL ENGINEERING
 1345 VICTORY BLVD, 2ND FLR., GLENDALE CA 91201-9240
 PHONE 818-500-9533 FAX 818-500-0134

Project: 435 W. Los Feliz Road
 Glendale, California
 Date Drilled: 11/3/04 Elevation: N/A
 Rig Type: 8 in. o.d. Hollow Stem
 Logged By: SCI
 GS # 04-1026

This log of subsurface conditions applies only at the specific location and the date indicated. Subsurface conditions may differ at other locations and times.

SPT = Standard Pen Sampler
R = Ring Sampler (2.41" I.D.)

BORING LOG B-4

■ = Sample location

Dry Density (pcf)	Moisture (%)	Blowcount	Sample Type	Depth (ft)	U.S.C.S. Class.	Lithologic Description
121.3	11.2	6	R	5	ML	0-2' Artificial Fill (Af) Sandy silt, brown, damp Surface: 3" asphalt with base materials
				2		2'-30' Alluvium (Oa)
				5	ML	@5' Sandy silt to silty sand, brown, damp, moderately dense
108.3	4.8	13	R	10	SM	@10' Silty medium sand, brown, dry to damp, moderately dense
103.3	12.1	29	R	15	SM	@15' Fine to medium sand, brown, dry, moderately dense
107.2	8.9	20	R	20	SP	@20' Silty fine sand, brown, dry, moderately dense
115.0	4.5	41	R	25	SP	@25' Fine to medium sand with gravels, brown, dry, dense
104.1	7.9	47	R	30	SP	@30' Medium sand, gravelly, brown, damp, moderately dense
No Groundwater Encountered No Caving Total Depth: 30.0 ft.						

GEO SYSTEMS
ENVIRONMENTAL, ENGINEERING, GEOLOGY
AND GEOTECHNICAL ENGINEERING
1845 VICTORY BLVD, 2ND FLR., GLENDALE CA 91201-2240
PHONE 618-800-8533 FAX 618-800-0134

Project: 435 W. Los Feliz Road
Glendale, California
Date Drilled: 11/3/04 Elevation: N/A
Rig Type: 8 in. o.d. Hollow Stem
Logged By: SCL
GS # 04-1026

PLATE B-4

SPT = Standard Pen Sampler
R = Ring Sampler (2.41" I.D.)

BORING LOG B-5

■ = Sample location

Dry Density (pcf)	Moisture (%)	Blowcount	Sample Type	Depth (ft)	U.S.C.S. Class.	Lithologic Description
122.6	11.5	9	R	5	ML	0-2' Artificial Fill (Af) Sandy silt, brown, damp Surface: 3" asphalt with base materials
				2		2'-30' Alluvium (Oa)
				5	ML	@5' Sandy silt to silty sand, brown, damp, moderately dense
118.4	5.2	30	R	10	SM	@10' Silty medium sand, brown, dry to damp, moderately dense
103.3	15.9	14	R	15	SM	@15' Fine to medium sand, brown, dry, moderately dense
111.1	7.1	19	R	20	SP	@20' Silty fine sand, brown, dry, moderately dense
104.3	5.7	21	R	25	SP	@25' Fine to medium sand, silty, brown, dry, dense
116.6	16.0	19	R	30	SP	@30' Fine to medium sand, brown, damp, moderately dense
No Groundwater Encountered No Caving Total Depth: 30.0 ft.						

GEO SYSTEMS
ENVIRONMENTAL, ENGINEERING, GEOLOGY
AND GEOTECHNICAL ENGINEERING
1845 VICTORY BLVD, 2ND FLR., GLENDALE CA 91201-2240
PHONE 618-800-8533 FAX 618-800-0134

Project: 435 W. Los Feliz Road
Glendale, California
Date Drilled: 11/3/04 Elevation: N/A
Rig Type: 8 in. o.d. Hollow Stem
Logged By: SCL
GS # 04-1026

PLATE B-5

This log of subsurface conditions applies only at the specific location and the date indicated. Subsurface conditions may differ at other locations and times.

This log of subsurface conditions applies only at the specific location and the date indicated. Subsurface conditions may differ at other locations and times.



April 19, 2005

Project Number 13350201

Mr. Guy Devorris
Affordable Housing Alliance
2044 Overland Avenue
Los Angeles, California 90025

**Addendum Phase I Environmental Site Assessment Report
465 West Los Feliz Road and 434-450 Fernando Court
Glendale, California**

Dear Mr. Devorris:

On July 14, 2004, EP Associates completed a Phase I Environmental Site Assessment report (EP Associates, 2004¹) for a multiple use commercial property located at 465 West Los Feliz Road and 434-450 Fernando Court, Glendale, California (subject property). Based on the findings of the Phase I Environmental Site Assessment, the report revealed that underground storage tanks (USTs) were potentially present at three locations on the subject property: at the southeast corner of Parcel 2 (435 West Los Feliz Road), the southwest corner of Parcel 2 (447-449 West Los Feliz Road), and the northwest corner of Parcel 3 (450 Fernando Court). These findings were based on information provided to EP Associates by the Glendale Fire Department - Emergency Management Center (EMC) following a records review request from the EMC on April 7, 2004. The review was to include chemical inventory, industrial waste permit, business emergency plan, and UST records. These records were requested for sixteen addresses historically designated for the subject property (see Appendix A, Public Records Request Forms).

At that time, the EMC informed EP Associates that no records existed for 465 West Los Feliz Road. However, during a subsequent project meeting at the EMC on April 1, 2005, the EMC staff provided EP Associates with records pertaining to this address which revealed that three USTs and at least one industrial wastewater clarifier has been utilized at this location (see Appendix B, Permit Records for 465 West Los Feliz Boulevard). A summary of the USTs and clarifiers is presented below.

Underground Storage Tanks

- Records indicate that a 550-gallon gasoline UST was installed at 465 West Los Feliz Road prior to March of 1954 for Glen-Webb & Co., a frozen food business. This UST was removed on November 8, 1955.
- Records indicate that a 1,000-gallon gasoline UST replaced the above-mentioned 550-gallon UST on November 8, 1955 for Glen-Webb & Co. The 1,000-gallon UST was abandoned in-place on December 6, 1963. There are no records to indicate that this UST was removed

from the subject property.

- Records also indicate that a 10,000-gallon gasoline UST was installed at 465 West Los Feliz Road on November 20, 1963 for Glen-Webb & Co. There are no records to indicate that this UST was removed from the subject property.

Clarifiers

- One clarifier (sized 2 feet by 2 feet by 3 feet deep), associated with Glen-Webb & Co., was referenced in a June 21, 1955 Glendale Fire Department waste discharge form.
- A second clarifier (sized 6 feet by 2 feet by 3 feet deep), also associated with Glen-Webb & Co. was referenced in an April 11, 1960 Glendale Fire Department waste discharge form.
- Furthermore, an application for industrial waste discharge dated February 25, 1985 issued to Chef's Select, a former tenant on the subject property (465 West Los Feliz Road, Unit H), references an "existing clarifier".
- On April 19, 2005, EP Associates conducted a walk-through reconnaissance of various units of Building 1 which included the units occupied by Jamai Spicehouse, Inc., Art Construction Studio, Holsum Baking, Inc., and Los Angeles Daily News (see Figure, Site Plan).
 - EP Associates visually confirmed the presence of a three-stage industrial wastewater clarifier (approximately 3 feet by 9 feet by 7 feet deep) inside of the unit occupied by Holsum Baking, Inc. At the time of EP Associates' Phase I Environmental Site Assessment, the clarifier was concealed with plywood and several product storage trays, and its presence could not have been identified. No additional clarifier was identified by EP Associates during the walk-through reconnaissance on April 19, 2005.
 - EP Associates also visually identified a concrete patch inside of the unit occupied by Jamai Spicehouse, Inc., indicating the possible presence of an additional former clarifier(s) or a floor drain system. At the time of EP Associates' Phase I Environmental Site Assessment, the concrete patch was concealed with 55-gallon drums of spices and a storage/work table, and its presence could not have been identified at that time.

¹ See Addendum Phase I Environmental Site Assessment Report, EP Associates, Inc., dated March 19, 2005, at 197-198, 199-200, 201-202, 203-204, 205-206, 207-208, 209-210, 211-212, 213-214, 215-216, 217-218, 219-220, 221-222, 223-224, 225-226, 227-228, 229-230, 231-232, 233-234, 235-236, 237-238, 239-240, 241-242, 243-244, 245-246, 247-248, 249-250, 251-252, 253-254, 255-256, 257-258, 259-260, 261-262, 263-264, 265-266, 267-268, 269-270, 271-272, 273-274, 275-276, 277-278, 279-280, 281-282, 283-284, 285-286, 287-288, 289-290, 291-292, 293-294, 295-296, 297-298, 299-300, 301-302, 303-304, 305-306, 307-308, 309-310, 311-312, 313-314, 315-316, 317-318, 319-320, 321-322, 323-324, 325-326, 327-328, 329-330, 331-332, 333-334, 335-336, 337-338, 339-340, 341-342, 343-344, 345-346, 347-348, 349-350, 351-352, 353-354, 355-356, 357-358, 359-360, 361-362, 363-364, 365-366, 367-368, 369-370, 371-372, 373-374, 375-376, 377-378, 379-380, 381-382, 383-384, 385-386, 387-388, 389-390, 391-392, 393-394, 395-396, 397-398, 399-400, 401-402, 403-404, 405-406, 407-408, 409-410, 411-412, 413-414, 415-416, 417-418, 419-420, 421-422, 423-424, 425-426, 427-428, 429-430, 431-432, 433-434, 435-436, 437-438, 439-440, 441-442, 443-444, 445-446, 447-448, 449-450, 451-452, 453-454, 455-456, 457-458, 459-460, 461-462, 463-464, 465-466, 467-468, 469-470, 471-472, 473-474, 475-476, 477-478, 479-480, 481-482, 483-484, 485-486, 487-488, 489-490, 491-492, 493-494, 495-496, 497-498, 499-500, 501-502, 503-504, 505-506, 507-508, 509-510, 511-512, 513-514, 515-516, 517-518, 519-520, 521-522, 523-524, 525-526, 527-528, 529-530, 531-532, 533-534, 535-536, 537-538, 539-540, 541-542, 543-544, 545-546, 547-548, 549-550, 551-552, 553-554, 555-556, 557-558, 559-560, 561-562, 563-564, 565-566, 567-568, 569-570, 571-572, 573-574, 575-576, 577-578, 579-580, 581-582, 583-584, 585-586, 587-588, 589-590, 591-592, 593-594, 595-596, 597-598, 599-600, 601-602, 603-604, 605-606, 607-608, 609-610, 611-612, 613-614, 615-616, 617-618, 619-620, 621-622, 623-624, 625-626, 627-628, 629-630, 631-632, 633-634, 635-636, 637-638, 639-640, 641-642, 643-644, 645-646, 647-648, 649-650, 651-652, 653-654, 655-656, 657-658, 659-660, 661-662, 663-664, 665-666, 667-668, 669-670, 671-672, 673-674, 675-676, 677-678, 679-680, 681-682, 683-684, 685-686, 687-688, 689-690, 691-692, 693-694, 695-696, 697-698, 699-700, 701-702, 703-704, 705-706, 707-708, 709-710, 711-712, 713-714, 715-716, 717-718, 719-720, 721-722, 723-724, 725-726, 727-728, 729-730, 731-732, 733-734, 735-736, 737-738, 739-740, 741-742, 743-744, 745-746, 747-748, 749-750, 751-752, 753-754, 755-756, 757-758, 759-760, 761-762, 763-764, 765-766, 767-768, 769-770, 771-772, 773-774, 775-776, 777-778, 779-780, 781-782, 783-784, 785-786, 787-788, 789-790, 791-792, 793-794, 795-796, 797-798, 799-800, 801-802, 803-804, 805-806, 807-808, 809-810, 811-812, 813-814, 815-816, 817-818, 819-820, 821-822, 823-824, 825-826, 827-828, 829-830, 831-832, 833-834, 835-836, 837-838, 839-840, 841-842, 843-844, 845-846, 847-848, 849-850, 851-852, 853-854, 855-856, 857-858, 859-860, 861-862, 863-864, 865-866, 867-868, 869-870, 871-872, 873-874, 875-876, 877-878, 879-880, 881-882, 883-884, 885-886, 887-888, 889-890, 891-892, 893-894, 895-896, 897-898, 899-900, 901-902, 903-904, 905-906, 907-908, 909-910, 911-912, 913-914, 915-916, 917-918, 919-920, 921-922, 923-924, 925-926, 927-928, 929-930, 931-932, 933-934, 935-936, 937-938, 939-940, 941-942, 943-944, 945-946, 947-948, 949-950, 951-952, 953-954, 955-956, 957-958, 959-960, 961-962, 963-964, 965-966, 967-968, 969-970, 971-972, 973-974, 975-976, 977-978, 979-980, 981-982, 983-984, 985-986, 987-988, 989-990, 991-992, 993-994, 995-996, 997-998, 999-1000.

Based on the disclosure of this information and EP Associates' walk-through of Building 1, it appears that two USTs may be present on Parcel 1, east of Building 1 (see Figure, Site Plan). In addition, the presence of one industrial wastewater has been substantiated inside the building, and possible additional clarifiers may be present or have been abandoned in or adjacent to Building 1.

In response to the findings of EP Associates' Phase I Environmental Site Assessment, TRAK Environmental Group (TRAK) conducted an environmental investigation at the subject property on October 22 and October 25, 2004 (TRAK, 2004). The TRAK investigation included a geophysical survey and subsurface soil sampling in areas of potential environmental concern previously identified by EP Associates. The geophysical survey verified the presence of a large subsurface anomaly (Anomaly A-1) indicative of a buried UST, located on Parcel 2 adjacent to the southeast corner of Building 6 (see Figure, Site Plan). The anomaly was identified with areal dimensions of approximately 12 feet by 25 feet, indicating that it is likely to be the 10,000-gallon UST associated with a former tenant on the subject property (Pratt Company) in the 1950s. A second anomaly (Anomaly A-3) was identified adjacent to the intersection of Gardena Avenue and Los Feliz Road. TRAK concluded that Anomaly A-3 may be a small UST, a buried utility vault, or a grouping of abandoned piping. The subsurface soil sampling also addressed areas of concern previously identified by EP Associates. Soil sample results for these areas generally verified there to be no significant evidence of soil impact. The highest concentration of total petroleum hydrocarbons (TPH) detected in soils (788 milligrams per kilogram, mg/kg) was at Sample Location C-15, generally located between Anomaly A-1 and Anomaly A-3. Other localized areas of shallow soil indicated detectable concentrations of TPH and slightly elevated metal concentrations.

The TRAK geophysical survey did not address the potential USTs or clarifiers located on Parcel 1.

CONCLUSIONS AND RECOMMENDATIONS

Two additional USTs are likely present on Parcel 1 on the east side of Building 1 (see Figure, Site Plan). The presence of one industrial wastewater clarifier has been substantiated in the unit occupied by Holsum Baking, Inc. The presence of additional wastewater clarifier(s) are possible inside or adjacent to the building.

EP Associates recommends assessing the possible presence of USTs by geophysical survey, and conducting subsurface soil sampling to assess the possible presence of contaminants associated with the former USTs.

The presence of additional wastewater clarifier(s) should be investigated when various units of Building 1 are vacated and the building floor is visible. It is our understanding that the clarifier(s) were used in connection with food processing. Even though the likelihood of subsurface

environmental impact with a food processing clarifier is low, subsurface testing may be warranted to confirm the absence of environmental contaminants under and adjacent to the clarifier(s).

Thank you once again for the opportunity to work with you on this project. Please call us at (818)246-4499 if you have any questions.

Very truly yours,

EP ASSOCIATES



Steve Fellingner
Environmental Specialist

Vahan Hovnanian, Principal
Registered Environmental Assessor #02544

VH:sfedm

Enclosures

- Figure, Site Plan
- Appendix A, Public Records Request Forms
- Appendix B, Permit Records for 465 West Los Feliz Road

References

1. *Phase I Environmental Site Assessment, 465 West Los Feliz Road and 434-450 Fernando Court, Glendale, California*. EP Associates Project Number 13350201, July 14, 2004.
2. *Report of Environmental Investigation, 465 West Los Feliz Road and 434-450 Fernando Court, Glendale, California*. November 20, 2004.

EP Associates

GLENDALE FIRE DIVISION ENVIRONMENTAL MANAGEMENT CENTER
180 Flower Street, Glendale, CA 91201
818-545-4030 Phone 818-545-9777 Fax

PUBLIC RECORDS REQUEST FORM

To expedite your request for records for facilities within the City of Glendale's jurisdiction, please fill out this form before any other steps in the process. You are requesting the following law:

NOTE: There is a limit of one site address per request form.

A. Requestor

Name & Title STEVE FELLINGER
Address 111 NORTH BRAND BLVD, STE 403
Employer EP ASSOCIATES
Employer Address
Telephone Number (818) 244-4499

B. Requested Facility

Facility Name GLENDALE ROTARY OFFSET PRINTING, ETC.
Facility Address 403 W. LOS FELIZ RD
Reason for Request SITE ASSESSMENT

C. Type of Records Requested:

- Chemical Inventory (for currently permitted sites)
- Industrial Waste Permit
- Business Emergency Plan (for currently permitted sites)
- Underground Storage Tank Records

Handwritten notes:
10/24/97
C...
4/17/04

PLEASE: If you request information that has been designated as a Trade Secret you must follow the appropriate procedures for obtaining that information.

Specific requests for records related to the business operations of a facility are subject to the Freedom of Information Act (FOIA) and may be subject to FOIA exemptions.

Information will not be permitted to release if it is exempt from release under FOIA. And public records requested pursuant to the Public Access Law, as amended, shall be released unless it falls within the Emergency Plan will be otherwise.

Date 4/7/04
Requestor's Signature [Signature]

APPENDIX A
Public Records Request Forms

GLENDALE FIRE DIVISION ENVIRONMENTAL MANAGEMENT CENTER
389 Flower Street, Glendale, CA 91201
318-548-4033 Phone 318-549-4777 Fax

PUBLIC RECORDS REQUEST FORM

This form gives you access to records for facilities within the City of Glendale jurisdiction. It is to be used completely and in full, or not at all. Records are provided from the last business day of 2003. There is a limit of one thousand records per request.

A. Requester

Name & Title: STEVE FELLINGER

Address: 111 NORTH BRAND BLVD STE 405

Employer: EP ASSOCIATES

Employer Address: _____

Telephone Number: (818) 240-4499

B. Requested Facility

Facility Name: GLENDALE ROTARY OFFSET PRINTING FZ

Facility Address: 465 W. LOS FELIZ RD

Reason for Request: SRP ASSESSMENT

C. Type of Records Requested:

Chemical Inventories (for currently permitted sites)

Industrial Waste Permit

Business Emergency Plan (for currently permitted sites)

Underground Storage Tank Records

61

3

10/29/03

10/29/03

POLICY: Two critical information that has been designated as a critical document is a document that contains information that is necessary for emergency response information.

Open to the public if records are not in the public domain, as defined in the California Information Practices Act (California Public Information Act).

The records will not be provided to anyone who is not a member of the public, unless the records are in the public domain, as defined in the California Information Practices Act.

Date: 1/27/04

Requester's Signature: [Signature]

APPENDIX B

Permit Records for 465 West Los Feliz Road

GLENDALE FIRE DEPARTMENT No 522
Bureau of Fire Prevention
210 South Orange Street
Citrus 1-3134
Date March 1, 1954

PERMIT

OR KEEPING, STORAGE, USE, MANUFACTURE, HANDLING, TRANSPORTATION, OR OTHER DISPOSITION OF HIGHLY INFLAMMABLE, COMBUSTIBLE, OR EXPLOSIVE MATERIALS, as stated below:

TO WHOM IT MAY CONCERN:
By virtue of the provisions of the Fire Prevention Code of the City of Glendale,

issued to MAN-TURNER CO.
Name of concern or individual

located at 174 East Los Feliz

conducting a WIRE AND CABLE BUSINESS
(Business)

having made application in due form, and as the conditions, surroundings, and arrangements are, in my opinion, such that the intent of the Regulations can be

observed, authority is hereby given and this PERMIT IS GRANTED for the use of a gasoline in underground tank to remain in place for 30 days. Tests to be made to determine if any leakage is occurring due to the tank.
Tests to be made of contents of tank to determine if any leakage is occurring due to the tank.
Tests to be made of contents of tank to determine if any leakage is occurring due to the tank.

This PERMIT is issued and accepted on condition that all provisions of the Fire Prevention Code of the City of Glendale as now adopted, or that may hereafter be adopted, shall be complied with. Any violations of these Provisions may be cause for the revocation of this permit.

By [Signature] Chief of the Bureau of Fire Prevention
By [Signature] Clerk.

This permit does not take the place of any license required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.
THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES MENTIONED ABOVE.

GLENDALE FIRE DEPARTMENT No 807
Bureau of Fire Prevention
210 South Orange Street
Citrus 1-3134
Date March 23, 1954

PERMIT

OR KEEPING, STORAGE, USE, MANUFACTURE, HANDLING, TRANSPORTATION, OR OTHER DISPOSITION OF HIGHLY INFLAMMABLE, COMBUSTIBLE, OR EXPLOSIVE MATERIALS, as stated below:

TO WHOM IT MAY CONCERN:
By virtue of the provisions of the Fire Prevention Code of the City of Glendale,

issued to MAN-TURNER CO.
Name of concern or individual

located at 174 East Los Feliz

conducting a WIRE AND CABLE BUSINESS
(Business)

having made application in due form, and as the conditions, surroundings, and arrangements are, in my opinion, such that the intent of the Regulations can be

observed, authority is hereby given and this PERMIT IS GRANTED for the use of a gasoline in underground tank for use in company trucks for 30 days. Tests to be made to determine if any leakage is occurring due to the tank.
Tests to be made of contents of tank to determine if any leakage is occurring due to the tank.
Tests to be made of contents of tank to determine if any leakage is occurring due to the tank.

This PERMIT is issued and accepted on condition that all provisions of the Fire Prevention Code of the City of Glendale as now adopted, or that may hereafter be adopted, shall be complied with. Any violations of these Provisions may be cause for the revocation of this permit.

By [Signature] Chief of the Bureau of Fire Prevention
By [Signature] Clerk.

This permit does not take the place of any license required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.
THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES MENTIONED ABOVE.

Form No. 106

GLENDALE FIRE DEPARTMENT No 825
Bureau of Fire Prevention
210 South Orange Street
Citrus 1-3134

Date Mar 13, 1955

PERMIT

OR KEEPING, STORAGE, USE, MANUFACTURE, HANDLING, TRANSPORTATION,
OR OTHER DISPOSITION OF HIGHLY INFLAMMABLE, COMBUSTIBLE, OR EX-
LOSIVE MATERIALS, as stated below:

TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Code of the City of Glendale,

Name of concern or individual

located at

conducting a Proved Pool business
(Business)

having made application in due form, and as the conditions, surroundings, and
arrangements are, in my opinion, such that the intent of the Regulations can be

observed, authority is hereby given and this PERMIT IS GRANTED for

USE OF 160 gallons of gasoline in underground
tank for use in company trucks for 30 days. Weekly tests
to be made of condition of tank to determine if any leakage
is occurring and to be reported to Bureau of Fire Prevention.

This PERMIT is issued and accepted on condition that all provisions of the Fire
Prevention Code of the City of Glendale as now adopted, or that may hereafter
be adopted, shall be complied with. Any violations of these Provisions may be
ground for the revocation of this permit.

A. J. ...
Chief of the Bureau of Fire Prevention

By [Signature]

This permit does not take the place of any license required by law
and is not transferable. Any change in the use or occupancy of premises
shall require a new permit.
THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES
MENTIONED ABOVE.

Form No. 106

GLENDALE FIRE DEPARTMENT No 871
Bureau of Fire Prevention
210 South Orange Street
Citrus 1-3134

Date April 22, 1955

PERMIT

OR KEEPING, STORAGE, USE, MANUFACTURE, HANDLING, TRANSPORTATION,
OR OTHER DISPOSITION OF HIGHLY INFLAMMABLE, COMBUSTIBLE, OR EX-
LOSIVE MATERIALS, as stated below:

TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Code of the City of Glendale,

Name of concern or individual

located at

conducting a Proved Pool business
(Business)

having made application in due form, and as the conditions, surroundings, and
arrangements are, in my opinion, such that the intent of the Regulations can be

observed, authority is hereby given and this PERMIT IS GRANTED for

USE OF 160 gallons of gasoline in underground
tank for use in company trucks for 30 days. Weekly tests
to be made of condition of tank to determine if any leakage
is occurring and to be reported to Bureau of Fire Prevention.

This PERMIT is issued and accepted on condition that all provisions of the Fire
Prevention Code of the City of Glendale as now adopted, or that may hereafter
be adopted, shall be complied with. Any violations of these Provisions may be
ground for the revocation of this permit.

A. J. ...
Chief of the Bureau of Fire Prevention

By [Signature]

This permit does not take the place of any license required by law
and is not transferable. Any change in the use or occupancy of premises
shall require a new permit.
THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES
MENTIONED ABOVE.

Form No. 535

GLENDALE FIRE DEPARTMENT No 881
Bureau of Fire Prevention
210 South Orange Street
Citrus 1-3134

Date August 2, 1955

PERMIT

OR KEEPING, STORAGE, USE, MANUFACTURE, HANDLING, TRANSPORTATION, OR OTHER DISPOSITION OF HIGHLY INFLAMMABLE, COMBUSTIBLE, OR EXPLOSIVE MATERIALS, as stated below:

TO WHOM IT MAY CONCERN:
By virtue of the provisions of the Fire Prevention Code of the City of Glendale,

Name of concern or individual

located at 165 East Los Feliz

conducting a Foreign Food Business (Business)

having made application in due form, and as the conditions, surroundings, and arrangements are, in my opinion, such that the intent of the Regulations can be

observed, authority is hereby given and this PERMIT IS GRANTED for STORAGE AND USE OF ONE (1) 550 GALLON UNDERGROUND TANK, AND

to be used in company trucks for 60 days. Weekly tests

to be made of contents of tank to determine if any leakage

is occurring due to the tank. (RENEWAL OF PERMIT 325)

This PERMIT is issued and accepted on condition that all provisions of the Fire Prevention Code of the City of Glendale as now adopted, or that may hereafter be adopted, shall be complied with. Any violations of these Provisions may be cause for the revocation of this permit.

A. V. HUNT, Fire Marshal
Chief of the Bureau of Fire Prevention

By *[Signature]*

This permit does not take the place of any License required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES MENTIONED ABOVE.

Form No. 535

GLENDALE FIRE DEPARTMENT No 900
Bureau of Fire Prevention
210 South Orange Street
Citrus 1-3134

Date Nov. 8, 1955

PERMIT

OR KEEPING, STORAGE, USE, MANUFACTURE, HANDLING, TRANSPORTATION, OR OTHER DISPOSITION OF HIGHLY INFLAMMABLE, COMBUSTIBLE, OR EXPLOSIVE MATERIALS, as stated below:

TO WHOM IT MAY CONCERN:
By virtue of the provisions of the Fire Prevention Code of the City of Glendale,

Name of concern or individual

located at 443 N. English Street, Burbank

conducting a Contingency (Business)

having made application in due form, and as the conditions, surroundings, and arrangements are, in my opinion, such that the intent of the Regulations can be

observed, authority is hereby given and this PERMIT IS GRANTED for REMOVAL OF ONE (1) 550 GALLON UNDERGROUND TANK, AND

INSTALLATION OF ONE (1) 1,000 GALLON UNDERGROUND TANK +

IN LOCATION GIVEN TO MR. KENT MOORE BY THE FIRE MARSHAL,

1 1/2 Inch Walls.

This PERMIT is issued and accepted on condition that all provisions of the Fire Prevention Code of the City of Glendale as now adopted, or that may hereafter be adopted, shall be complied with. Any violations of these Provisions may be cause for the revocation of this permit.

A. V. HUNT, Fire Marshal
Chief of the Bureau of Fire Prevention

By *[Signature]*

This permit does not take the place of any License required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES MENTIONED ABOVE.

Form No. 1-16

GLENDALE FIRE DEPARTMENT No 727
Bureau of Fire Prevention
210 South Orange Street
Citrus 1-3134

Date Jan. 14, 1959

PERMIT

FOR KEEPING, STORAGE, USE, MANUFACTURE, HANDLING, TRANSPORTATION, OR OTHER DISPOSITION OF HIGHLY INFLAMMABLE, COMBUSTIBLE, OR EXPLOSIVE MATERIALS, as stated below:

TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Code of the City of Glendale,

by GLEN-4288 CO. Name of concern or individual

located at 465 N. Los Feliz

conducting a (Business)

having made application in due form, and as the conditions, surroundings, and arrangements are, in my opinion, such that the intent of the Regulations can be

observed, authority is hereby given and this PERMIT IS GRANTED for

PROVISIONAL USE of 1000 gallons of gasoline in underground tank, subject to the following conditions:

1. Install one 10 lb. CO-2 or equivalent dry powder type extinguisher in a conspicuous and accessible location.
2. No smoking or open flame allowed within 25 ft. of operation
3. Install "No Smoking" signs.

This PERMIT is issued and accepted on condition that all provisions of the Fire Prevention Code of the City of Glendale as now adopted, or that may hereafter be adopted, shall be complied with. Any violations of these Provisions may be ground for the revocation of this permit.

A. W. SURT Chief of the Bureau of Fire Prevention

By [Signature]

This permit does not take the place of any license required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES MENTIONED ABOVE.

Form No. 1-16

GLENDALE FIRE DEPARTMENT No 1717
Bureau of Fire Prevention
210 South Orange Street
Citrus 1-3134

Date Mar. 23, 1962

PERMIT

FOR KEEPING, STORAGE, USE, MANUFACTURE, HANDLING, TRANSPORTATION, OR OTHER DISPOSITION OF HIGHLY INFLAMMABLE, COMBUSTIBLE, OR EXPLOSIVE MATERIALS, as stated below:

TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Code of the City of Glendale,

by JAY BATES Name of concern or individual

located at 2316 W. Victory Blvd., Burbank

conducting a contracting business at: 465 N. Los Feliz (Business)

having made application in due form, and as the conditions, surroundings, and arrangements are, in my opinion, such that the intent of the Regulations can be

observed, authority is hereby given and this PERMIT IS GRANTED for

PROVISIONAL suction and vent lines (on the above premises)

to existing underground installation in an approved

manner, per submitted sketch.

This PERMIT is issued and accepted on condition that all provisions of the Fire Prevention Code of the City of Glendale as now adopted, or that may hereafter be adopted, shall be complied with. Any violations of these Provisions may be ground for the revocation of this permit.

R. H. AUMAN, FIRE CHIEF Chief of the Bureau of Fire Prevention

By [Signature]

This permit does not take the place of any license required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES MENTIONED ABOVE.

FM No. F-20

GLENDALE FIRE DEPARTMENT — BUREAU OF FIRE PREVENTION
210 South Orange St. - Glendale 4, Calif.
Citrus 1-3134

PERMIT N^o 2151

WHOM IT MAY CONCERN:

virtue of the provisions of the Fire Prevention Code of the City of Glendale, authority is hereby given to:

me Richard J. McLaughlin

address 2511 Hollywood Ave., Burbank Phone TR 8-8689

or on the premises known as Blondie's & Co.

165 E. Los Angeles St., Glendale

located at 165 E. Los Angeles St., Glendale, California.

Permission is granted for REPAIRS TO THE EXISTING

ROOFING AND PLUMBING WORK

AS SHOWN ON THE ATTACHED PERMIT DRAWINGS.

THIS PERMIT IS VALID FOR THIRTY DAYS.

This permit is issued and accepted on condition that all provisions of the Fire Prevention Code of the City of Glendale as now adopted, or that may hereafter be adopted, shall be complied with. Any violation of these Provisions may be ground for revocation of this permit.

Richard J. McLaughlin
Fire Chief

Permitted ON 10/2/63 By Richard J. McLaughlin

THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES DESCRIBED ABOVE.
This permit does not take the place of any license required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

FM No. F-20

GLENDALE FIRE DEPARTMENT — BUREAU OF FIRE PREVENTION
210 South Orange St. - Glendale 4, Calif.
Citrus 1-3134

PERMIT N^o 2162

WHOM IT MAY CONCERN:

virtue of the provisions of the Fire Prevention Code of the City of Glendale, authority is hereby given to:

me Richard J. McLaughlin

address 2511 Hollywood Ave., Burbank Phone TR 8-8689

or on the premises known as Blondie's & Co.

165 E. Los Angeles St., Glendale

located at 165 E. Los Angeles St., Glendale, California.

Permission is granted for REPAIRS TO THE EXISTING

ROOFING AND PLUMBING WORK

AS SHOWN ON THE ATTACHED PERMIT DRAWINGS.

THIS PERMIT IS VALID FOR THIRTY DAYS.

This permit is issued and accepted on condition that all provisions of the Fire Prevention Code of the City of Glendale as now adopted, or that may hereafter be adopted, shall be complied with. Any violation of these Provisions may be ground for revocation of this permit.

Richard J. McLaughlin
Fire Chief

Permitted ON 10/2/63 By Richard J. McLaughlin

THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES DESCRIBED ABOVE.
This permit does not take the place of any license required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

Permit # W-2220

25 Feb 85

CITY OF GLENDALE
Public Works Division - Building Section
533 East Broadway, Room 101, Glendale, California 91205 Phone 956-4830

PH 10 F 56

GLENDALE FIRE DEPARTMENT — BUREAU OF FIRE PREVENTION
210 South Orange St. - Glendale 4, Calif.
Cbus 1-3134

PERMIT

No 2170

WHOM IT MAY CONCERN:

virtue of the provisions of the Fire Prevention Code of the City of Glendale, authority is hereby given to:

me JEFF ABOTZ COMPANY

Business 145 N. Los Feliz Road Phone 956-4830

located on the premises known as Glendale Wash Co.

located at 145 N. Los Feliz Road Glendale, California.

Permission is granted for INSTALLATION OF UP TO 10,000 GALLONS
of WATER in the following manner:
1. INSTALLATION OF THE FOLLOWING EQUIPMENT:
Maintain one 1/2" or equivalent dry standpipe extinguisher in a conspicuous and accessible location.
2. No smoking or open flames allowed within 50' of operations.
Install "no smoking" signs accordingly.
This permit is issued and accepted on condition that all provisions of the Fire Prevention Code of the City of Glendale as now adopted, or that may hereafter be adopted, shall be complied with. Any violation of these provisions may be ground for revocation of this permit.

Issued 25 Feb 85 By [Signature]

Fire Chief

THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES DISCLOSED ABOVE.
This permit does not take the place of any license required by law and is not transferable. Any change in the use or company of premises shall require a new permit.

APPLICATION AND PERMIT FOR INDUSTRIAL WASTE DISCHARGE

Business Name: JEFF'S SELECT

Business Owner: John Lewis, Pres Phone: 956-4830

Address of Installation: 145 N. Los Feliz Road

Mailing Address: P.O. Box 147 Same SAN FERNANDO, CA 91340

Type of Industry: Pastry Baking

Character of operation producing waste: _____

Floor and equipment washing

Types of chemicals, solvents, cleaning compounds, oils and other substances contained in liquid waste discharge: _____

Water, dirt, soap and food residue

Approximate gallonage of waste liquids (500) per (5) hour day.

Additional Information: Change of ownership. Previous permit #12345

Existing identifier: /

✓ FEE: \$25.00 (Checks made payable to the CITY OF GLENDALE.)

For further information, if necessary, call 956-4830.

JEFF'S SELECT
(Firm Name)

by [Signature]
(Applicant's Signature & Title)

Receipt No. 21

COMPANY *Glenn Webb, Co.* DATE *June 23, 1937*

LOCATION *455 N. Co. Rd. Citrus*

SUPT. *Glenn C. Robert* Citrus 71171

PLANT FOREMAN

NO. OF EMPLOYEES

BUSINESS

MAX. G.P.D.

AVG. G.P.D. *2 to Gallons & Hems*

Clarifier 3 - 2' x 7' x 3' deep

Glenn C. Robert
June 23, 1937
(60)

COMPANY *Melody Baby Laundry* DATE *June 24, 37*

LOCATION *455 N. Co. Rd. Citrus*

SUPT.

PLANT FOREMAN

NO. OF EMPLOYEES

BUSINESS

MAX. G.P.D.

AVG. G.P.D.

Clarifier ?

Melody Baby Laundry
June 24, 1937

448 West Los Feliz Road
Jen-Went & Company

W - 202 April 11, 1960
800 gal/8-hr day from:
"A" - Garbage Grinders;
"B" - Floor; Liquid Washing
(over process area)

Glenn C. Roberts, President
Kenneth Tibbatts, Supt.
Ch 8-3811

J. A. :

K
L

M
Mc

I

V

L

S

R

450 Fernando Court
Quality Sol-Pak, Inc.

W - 228 March 6, 1960
2,880 gal/24-hr day from:
3 C/T's serving 58-tons of
refrigeration & 5-tons of
air conditioning.
(Defrost water from 4 coils)

SD in right-of-way, 72".

Bert Lane, Sec.
Ch 8-3701

4677e Demo.

E
F

G

H

I

J

461 West Los Feliz Road
Glen-Walt & Company

W - 51 April 11, 1962
800 gal/8-hr day from:
"A" - 321 steam clean pack;
"B" - C/T serving 8-tons of
air conditioning.
(discontinued)

3-0 9'x 9'x 3' EI Clarifier

Glen D. Roberts, President
Kenneth Little, Supt.
Ch 8-5011

10/1/62

M-1244, January 23 1975
LUSIE FACTS
3000 GAL / 8-HR DAY FROM:
A - GARAGE WINDER
B - BENCH BENCH, FLOOR
AND EQUIP. WASHING

M. A. GARNON, MGR. 246-6545

450 Fernando Court
Quality Col-Pak, Inc.

W - 175 December 7, 1959
8,000 gal/8-hr day from:
"A" - Apple processing;
"B" - Floor & equip. washing;
"C" - C/T serving 8-tons of
air conditioning.

"A" & "B" 3-0 9'x 9'x 3' EI Clarifier
"C" Air cond. served by refrig.
C/T's w/bleed-off to SD.

Bert Lane, Sec.
Ch 8-3761

11 May 62 - fan continuation
started - now 17-1/2
tons of cooling.

5/11/62 Done.

February 3, 1959

E. W. Holland, City Engineer

E. R. Webster, Industrial Waste Inspector

February 13, 1959

Storm Drain, Quality Col-Pak

Quality Col-Pak, Inc.
450 Fernando Court
Glendale, California

Attn: Mr. Bert Lane, Secretary

Dear Sir:

This is in reference to the area drain under your loading dock that is connected to the sanitary sewer.

It will be satisfactory to the Engineering Section if this drain is sealed rather than connected to the storm drain as was first proposed, subject to the following conditions:

1. The drain must be permanently sealed in a manner satisfactory to the Engineering Section and the Street Section. This should be done with cement.
2. That a representative of the Street Section be present while the work is being done.

It is requested that you notify this Office at least two days in advance of the time the drain is to be sealed so that arrangements can be made to have a Street Section representative present.

Sincerely,

E. W. Holland
City Engineer

EWB/LL

cc: William Sec.
Street Sec.

On January 23, 1959, it was determined by dye test done by a sewer crew and the Industrial Waste Inspector that an area drain at Quality Col-Pak, 450 Fernando Court is connected to the sanitary sewer and allows storm water from the truck loading area to enter the sanitary sewer.

A letter from this office dated January 26, 1959 to Mr. Bert Lane, Secretary of the firm, requested that this situation be corrected, by connecting the area drain to the existing storm drain.

On January 29, 1959, the Inspector met with Mr. Lane at the latter's request for further discussion of the matter. Mr. Lane is very courteous and amiable, but also very adamant. He stated flatly it would be necessary for the City of Glendale to sue him before he would put Quality Col-Pak to the expense necessary to connect the area drain to the storm drain. Mr. Lane offered to seal the area drain in question, thus preventing storm run off from entering the sewer. If this is done, rain water from the loading area will, according to Mr. Lane, reach another drain which empties into Fernando Court via a drain pipe which passes under the sidewalk into the street.

The City of Glendale has no ordinance that prohibits non-contaminated water from flowing from private property into the street. "Storm water channel" mentioned in Section 24-27 (b) of the Industrial Waste Ordinance could probably be interpreted to mean a street gutter.

Of course no commitment was made to Mr. Lane by the Inspector as to how his compromise proposal would be received by the Engineering Section.

The matter was discussed with Mr. Robinson of the Street Section. He is of the opinion that while Mr. Lane's proposed solution of the problem is not the ideal one, it would be reasonably satisfactory to the Street Section. Mr. Robinson stated that if the drain is sealed it should be done permanently, in a manner satisfactory to the Street Section, so that in the event of unusually heavy precipitation it would not be reopened by Quality Col-Pak personnel in order to expedite unloading of the loading area and thus overload the sanitary sewer.

Your views and suggestions on this matter will be appreciated.

E. R. Webster
Industrial Waste Inspector

EWB/LL

DIVISION OF PUBLIC WORKS, ENGINEERING SECTION
 CITY OF GLENDALE, CALIFORNIA
 INDUSTRIAL WASTE CONTROL
 INDUSTRIAL PLANT WASTE SURVEY

January 20, 1959

Quality Col-Pak, Inc.
 450 Fernando Court
 Glendale, California

Attention: Mr. Bert Lane, Secretary

Dear Sir:

On January 20, 1959, an investigation by representatives of the Engineering Section and Street Section, showed that a drain located under your loading dock is connected to the sanitary sewer, allowing storm water from adjacent areas to enter the sanitary sewer.

This is in violation of Chapter 21, Article IV, Section 26-27 (b) of the Glendale Municipal Code which states in part: "No person shall discharge storm waters ... into any sanitary sewer."

It is requested that this area drain be connected to the existing storm drain rather than the sanitary sewer.

This office will be happy to discuss this matter with you should you desire further information.

Sincerely,

W. V. Holland
 City Engineer

WVH/ep

cc: Building Div.
 Street Div.

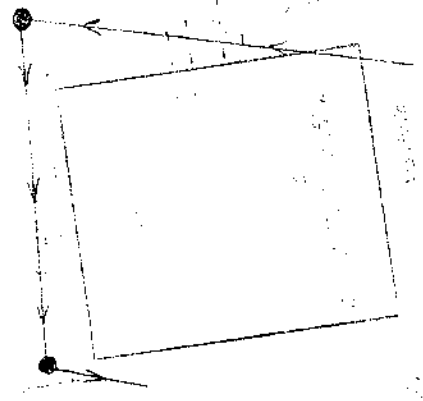
COMPANY Quality Col-Pak, Inc DATE Jan 19-1959
 ADDRESS OF INSTALLATION 450 Fernando Ct
 MAILING ADDRESS Same PH. CH 53701
 TYPE BUSINESS Food distributing & apple packing CLASS NO. EMPLOYEES 60
 OWNER (Pers) Herbert Lervenson
 ADDRESS Same PH. Same
 SUPERINTENDENT Bert Lane PROFESSION PROFESSIONAL ENGINEER PH. "
 OPERATIONS PRODUCING WASTES Packing & shipping of apples
 SUBSTANCES IN WASTES apple tissue
 WASTE DISCHARGED INTO Sewer AT ADDRESS "

ESTIMATED AVERAGE DAILY DISCHARGE												
AM	1	2	3	4	5	6	7	8	9	10	11	12
GPH												
PH	1	2	3	4	5	6	7	8	9	10	11	12
GPH												

AVG GPH _____ MAX GPH _____ MIN GPH _____ AVG TPD _____
 SAMPLE TAKEN NR. _____
 AT 345 x 100 on 11/1/59 DATE _____
 GRAVITY TIME TAKEN _____ COMPOSITE () NO. SAMPLES _____
 PIMS TAKEN _____

1-23-59 - E.K.P.M. & Co.

Flow of dye in secondary
sewer
1-23-59 - E.K.P.M. & Co.



1-23-59 - E.K.P.M. & Co.

SOUTHERN PACIFIC RAILROAD



1-23-59 - E.K.P.M. & Co.
1-23-59 - E.K.P.M. & Co.
1-23-59 - E.K.P.M. & Co.

PROJECT REPORT

**SUBSURFACE GEOPHYSICAL AND
SOIL INVESTIGATION**

465 West Los Feliz Road
Glendale, California

Prepared for:

Affordable Housing Alliance
2044 Overland Avenue
Los Angeles, California 90025

Prepared by:

EP Associates
1111 North Brand Boulevard, Suite 405
Glendale, California 91202-3023

Project Number 13350202

June 24, 2005

**SUBSURFACE GEOPHYSICAL AND
SOIL INVESTIGATION**

465 West Los Feliz Road
Glendale, California

Prepared for:

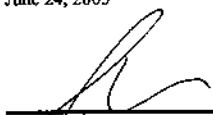
Affordable Housing Alliance
2044 Overland Avenue
Los Angeles, California 90025

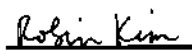
Prepared by:

EP Associates
1111 North Brand Boulevard, Suite 405
Glendale, California 91202-3023

Project Number 13350202

June 24, 2005


Steve Mellinger
Environmental Specialist


Robin Kim, Project Geologist
Registered Geologist #6040

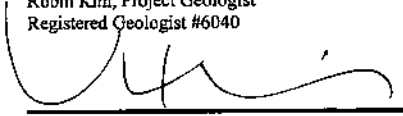

Vahan Hovnanian, Principal
Registered Environmental Assessor #02544



TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 SITE DESCRIPTION AND BACKGROUND 1

3.0 PURPOSE AND SCOPE OF INVESTIGATION 3

4.0 REGIONAL GEOLOGY AND HYDROGEOLOGY 4

5.0 SITE ASSESSMENT METHODOLOGY 5

5.1 Geophysical Survey 5

5.2 Subsurface Soil Sampling 5

6.0 LABORATORY ANALYSES 7

7.0 FINDINGS 7

7.1 Geophysical Survey 7

7.2 Subsurface Soil Conditions 7

7.3 Field Observations for Contaminants 8

7.4 Laboratory Test Results 8

8.0 CONCLUSIONS AND RECOMMENDATIONS 8

9.0 LIMITATIONS 9

REFERENCES

FIGURES

- 1 - Vicinity Map
- 2 - Site Plan

TABLES

- 1 - Laboratory Test Results for Total Petroleum Hydrocarbons and BTEX Compounds
- 2 - Laboratory Test Results for Volatile Organic Compounds
- 3 - Laboratory Test Results for Title 22 CAM Metals

APPENDICES

- A - Geophysical Survey Report by GEOVision
- B - Certified Laboratory Reports and Chain-of-Custody Records

1.0 INTRODUCTION

On April 26 and 27, 2005, EP Associates conducted a subsurface geophysical and soil investigation at a commercial property located at 465 West Los Feliz Road, Glendale, California (Site) (Figure 1, Vicinity Map). The investigation was performed at the request of Affordable Housing Alliance to assess the possible presence of underground storage tanks (USTs) at the Site, as well as potential impacts to subsurface soils by petroleum hydrocarbons, volatile organic compounds (VOCs), and metals, associated with the former or existing USTs, as well as an existing three-stage industrial wastewater clarifier, and another possible clarifier or floor drain system identified at the Site. The assessment consisted of conducting a geophysical survey and performing subsurface soil sampling at potential areas of concern. This investigation was performed based on the findings of an Addendum Phase I Environmental Site Assessment (Phase I ESA) conducted by EP Associates in April 2005 (EP Associates, 2005) in which additional records were provided by the Glendale Fire Department - Emergency Management Center (EMC) that had not previously been available. The additional records revealed that three USTs and at least one wastewater clarifier had been utilized at the Site. This report presents the findings of our subsurface soil investigation.

2.0 SITE DESCRIPTION AND BACKGROUND

The Site is one of four parcels of land that comprise a larger, multiple use commercial property located at 465 West Los Feliz Road and 434-450 Fernando Court, Glendale, California (Figure 2, Site Plan). The Site is a generally rectangular parcel comprising approximately 26,000 square feet of land located within a mixed commercial and residential area of Glendale. The Site is located along West Los Feliz Road, at the northeast corner of the intersection with the Southern Pacific Railroad tracks.

The Site is improved with one two-story brick building (Building 1) that is located on the western half of the Site, and one single-story concrete, plaster, and stucco building (Building 2) that is located on the northern portion of the Site. The existing Site buildings were constructed circa 1950s. The two-story building is divided into four units, which are occupied by: *Jamai Spicehouse, Inc.*, a spice distribution warehouse; *Art Construction Studio*, a construction and design studio; *Holsom Baking, Inc.*, a bread distribution warehouse; and the *Los Angeles Daily News*, a packaging and distribution facility for a newspaper publishing company. Building 2 is used as offices for *Byron's Auto*, an automobile repair shop, as offices for *M & D Supply*, a plumbing company, and as a storage and restroom area. The southeast portion of the site is an open, concrete and asphalt paved lot that is bounded on the west and the north by elevated loading docks associated with Building 1 and Building 2. Vehicular access to the paved lot is via a driveway which enters the Site from the southeast.

In July 2004, EP Associates completed a Phase I ESA for the 4-parcel property (EP Associates, 2004), which included the subject Site (Parcel 1). At that time, based on the records provided by the EMC, the historical presence of USTs were identified only at Parcels 2 and 3 - not at the Site. Subsequently, in late October 2004, TRAK Environmental Group (TRAK) performed a subsurface environmental investigation to assess the possible presence of USTs and associated potential impacts to subsurface soils at Parcels 2 and 3 (TRAK, 2004). The TRAK investigation included a geophysical survey and subsurface soil sampling at areas of potential environmental concern, primarily on Parcels 2, 3, and 4, that were identified in the EP Associates Phase I ESA. The TRAK geophysical survey and soil sampling did not address potential USTs or clarifiers located at the Site.

At the time EP Associates performed the Phase I ESA on Parcels 1 through 4, the EMC found no records pertaining to USTs at 465 West Los Feliz Road (the Site, Parcel 1). However, during a subsequent project meeting at the EMC on April 1, 2005, the EMC staff provided EP Associates with records pertaining to 465 West Los Feliz Road, which revealed that three USTs and at least one industrial wastewater clarifier had been utilized at the Site. The records indicated the following:

- A 550-gallon gasoline UST was installed at 465 West Los Feliz Road prior to March of 1954 for *Glen-Webb & Co.*, a frozen food business. This UST was removed on November 8, 1955.
- A 1,000-gallon gasoline UST replaced the above-mentioned 550-gallon UST on November 8, 1955 for *Glen-Webb & Co.* The 1,000-gallon UST was abandoned in-place on December 6, 1963. There were no records indicating this UST was removed from the Site.
- A 10,000-gallon gasoline UST was installed at 465 West Los Feliz Road on November 20, 1963 for *Glen-Webb & Co.* There were no records indicating this UST was removed from the Site.
- A clarifier (2 feet by 2 feet by 3 feet deep), associated with *Glen-Webb & Co.*, was referenced in a June 21, 1955 Glendale Fire Department waste discharge form.
- A clarifier (6 feet by 2 feet by 3 feet deep), also associated with *Glen-Webb & Co.* was referenced in an April 11, 1960 Glendale Fire Department waste discharge form.
- An application for industrial waste discharge dated February 25, 1985 issued to *Chef's Select*, a former tenant on the subject property (465 West Los Feliz Road, Unit H), references an "existing clarifier".

Based on these new records, EP Associates conducted a walk-through reconnaissance of the various units of Building 1 and visually confirmed the presence of a three-stage industrial wastewater clarifier (approximately 9 feet by 3 feet by 7 feet deep) inside the unit occupied by *Holsum Baking, Inc.* During EP Associates' previous site visit, this clarifier was concealed with plywood and several product storage trays. EP Associates also visually identified a concrete patch inside the unit occupied by *Jamai Spicehouse, Inc.*, indicating the possible presence of an additional former clarifier or floor drain system. During EP Associates' previous site visit, this concrete patch was concealed with 55-gallon drums of spices and a storage/work table.

Based on these findings, on April 19, 2005, EP Associates submitted the Addendum Phase I Environmental Site Assessment (EP Associates, 2005), that recommended conducting a geophysical survey to assess the possible presence of USTs at the Site, and performing subsurface soil sampling to assess the presence of contaminants associated with the former or existing USTs, the existing wastewater clarifier, and the additional possible clarifier or floor drain system identified at the Site.

3.0 PURPOSE AND SCOPE OF INVESTIGATION

The purpose of this investigation was to assess the possible presence of USTs at the Site and to assess potential impacts to subsurface soils by petroleum hydrocarbons, VOCs, and metals, associated with the former or existing USTs, the existing three-stage industrial wastewater clarifier, and another possible clarifier or floor drain system identified at the Site. EP Associates proposed a combination of a geophysical survey and subsurface soil sampling. The scope of work for this project included the following:

- Conduct a geophysical survey to assess the possible presence of USTs in the open paved lot at the southeast portion of the Site (east of Building 1, and south of Building 2) using a combination of ground penetrating radar (GPR), magnetic, and electromagnetic (EM) methods and equipment.
- Conduct subsurface soil sampling using a combination of limited-access and truck-mounted Geoprobe equipment. Collect soil samples from 21 locations near possible UST locations and other suspect areas. Collect soil samples at generally 5-foot depth intervals to a maximum depth of 30 feet below ground surface (bgs), or to probe refusal. Advance 4 additional shallow soil borings inside Building 1, and collect soil samples at depths of approximately 10 feet and 15 feet bgs adjacent to the existing 3-stage clarifier, and at depths of 3 feet and 8 feet bgs near the possible clarifier/floor drainage system.
- Analyze selected soil samples for petroleum hydrocarbons, VOCs, and metals.
- Interpret the analytical laboratory results and prepare a report.

4.0 GEOLOGY AND HYDROGEOLOGY

The Site is relatively flat but the general vicinity slopes gently to the southwest at a rate of approximately one foot per 120 feet. According to the United States Geological Survey (USGS) 7.5 Minute Topographic Quadrangle Map Series, the Site lies at approximately 442 feet above mean sea level (Figure 1, Vicinity Map).

The unimproved portion of the Site is paved with asphalt and concrete and slopes gently to the southwest. Surface runoff occurs as sheet flow into a trough and floor drains along the south side of the Site, and then onto Los Feliz Road. Surface runoff in the general vicinity ultimately drains into the Los Angeles River, located approximately 3,100 feet west of the Site. The Site is also located approximately 2½ miles south of the Verdugo Wash, a flood control channel.

The Site is located in the southeastern region of the San Fernando Valley Ground Water Basin (SFVB) (ULARA Watermaster, 2003). The SFVB is one of four basins within the Upper Los Angeles River Area. The basin in the area of the Site is bounded on the north and east by the Verdugo Mountains, and on the south by the Santa Monica Mountains.

Groundwater beneath the Site occurs in alluvial deposits of the southeastern portion of the SFVB (DWP, 1983). The alluvial deposits consist primarily of sands and gravels with localized and interbedded lenses of silt and clays. The alluvium overlies sandstones and conglomerates of the Topanga Formation (DWP, 1983). The general groundwater flow direction for the shallow aquifer in this area is to the south-southwest (ULARA, 2003).

Records of groundwater conditions in the general vicinity were reviewed at the Los Angeles County Department of Public Works, Hydrogeologic Records Division, to obtain groundwater depth near the Site. The nearest water well to the Site is Observation Well 3937G. The well is located near the intersection of Boyce Avenue and Dover Street, approximately 1,300 feet southwest of the Site. Groundwater in this well was at a depth of approximately 28 feet bgs, as last measured on December 11, 2003.

A review of an annual groundwater monitoring report at the former Franciscan Ceramics site indicates that groundwater west of the Site was measured at a depth of approximately 40 feet bgs in 2000 (SECOR, 2000). Groundwater was not encountered to a depth of 25 feet bgs, the maximum depth explored during this subsurface investigation.

Following the passage of Assembly Bill 1803 in 1983, the California Department of Health Service (DHS) directed a groundwater testing program in the SFVB that led to the discovery of chlorinated hydrocarbons (solvents) such as a trichloroethylene (TCE) and perchloroethylene (PCE) at elevated levels in a number of the basin's wells. As a result, the Crystal Springs Well Field, within which the Site is located, was placed on the Federal National Priority List as a

Federal Superfund site (City of Glendale-Water Section, 1993). EP Associates understands that the construction of a groundwater extraction and treatment facility was completed in October 1999. According to a representative of the City of Glendale Water Department, one operating unit became active in January 2002 with an additional unit under design for cleanup of the site.

Additionally, the Pollock Well Field, within which the Site is located, was also placed on the Federal National Priority List as a Federal Superfund site. The U.S. Environmental Protection Agency (U.S. EPA) and the Los Angeles Department of Water and Power (LADWP) have evaluated the extent of ground-water contamination. In March 1999, LADWP activated a ground-water remediation project at two of its wells located approximately 1¼ mile south-southeast of the Site at the off-ramp of Glendale Freeway and Fletcher Drive (U.S. EPA, 1999). The treatment involves the removal of contaminants using liquid-phase carbon adsorption process.

5.0 SITE ASSESSMENT METHODOLOGY

5.1 Geophysical Survey

On April 26, 2005, a geophysical investigation was conducted at the Site by GEOVision Geophysical Services (GEOVision). The purpose of the geophysical survey was to screen the paved area of the Site for a 1,000 gallon UST and a 10,000 gallon UST. Historical documents indicated these USTs were permitted for the Site, but no records were found to indicate the tanks had been abandoned or removed. The geophysical survey utilized GPR, magnetic, and EM methods and equipment, including a Schonstedt Magnetometer, a Model 902 metal detector with a subscanner, a Model TR-5A metal detector, and a Model 5600 ST pipe and cable locator. The survey was performed using a 2-foot by 2-foot survey grid. A survey map showing the survey area, the coordinate system, and the surficial features was prepared. The survey was designed to detect metallic objects within a depth of approximately 8 feet. The exceptions were areas affected by subsurface utilities or surface structures, such as an aboveground utilities, fences, and reinforced concrete mesh in the southern portion of the survey area. A complete copy of the GEOVision report is included in Appendix A.

5.2 Subsurface Soil Sampling

EP Associates utilized truck-mounted Geoprobe equipment and collected soil samples from 25 soil borings (Borings GP1 through GP25). EP Associates notified Underground Service Alert of Southern California (DigAlert) to mark and clear subsurface utilities prior to installing the borings. The boring locations are shown in Figure 2, Site Plan. Four borings were located inside Building 1; two borings (GP12 and GP13) were advanced to maximum depths of 15 feet and 10 feet bgs, respectively, adjacent to the wastewater clarifier inside the *Holsum Baking, Inc.* facility, and two borings (GP21 and GP22) were advanced to maximum depths of 8 feet and 3

feet bgs, respectively, adjacent to the possible clarifier or floor drain system inside the *Jamai Spicehouse, Inc.* facility. The remaining 21 soil borings (GP1 through GP11, GP14 through GP20, and GP23 through GP25) were advanced on a grid of approximately 15 to 20-foot centers across the open paved lot adjacent to the east and south sides of Buildings 1 and 2, respectively. The exception was that no borings were placed within the concrete loading ramp extending from the east side of Building 1 (see Figure 2) since it is highly unlikely that USTs would have been positioned under the ramp. EP Associates initially proposed to drill the borings in the open lot to a maximum depth of 30 feet bgs; however, drilling refusal was generally encountered at about 20 to 25 feet bgs, and less than that in some cases. The drilling depths and sample intervals for each boring are tabulated on Table 1 - Summary of Laboratory Results for Total Petroleum Hydrocarbons and BTEX Compounds.

The Geoprobe is a hydraulically-powered soil-probing machine. The machine uses static force and a percussion hammer to advance small-diameter sampling tools into the subsurface to collect soil cores, groundwater, or soil-gas samples. The soil samples were collected using a Large Bore Soil Sampler. The sampler was either lined with four clean and previously unused 6-inch brass sampling liners or a clean and previously unused 18-inch acetate sampling liner.

Upon retrieval of the sampler, the sample liner selected for laboratory analysis was immediately sealed at both ends with Teflon® film and plastic end caps, labeled, and stored in an iced cooler pending same-day transport to the analytical laboratory accompanied by a chain-of-custody record.

EP Associates utilized a Mini-Rae 2000 photoionization detector (PID) to screen the collected soil samples for the presence of VOCs. Approximately 100 grams of soil from each sampling depth were stored in an unused and sealed plastic Ziploc® bag. After approximately 10 minutes, the sampling probe of the PID was inserted into the headspace of the plastic bag and the concentrations of the VOCs were measured and recorded. The PID was calibrated with isobutylene gas.

As a decontamination procedure, the Large Bore Soil Sampler, the Geoprobe push rods, and the sampling shoe were washed prior to collecting each sample in a solution of Alconox and rinsed with deionized water.

At the completion of sampling, the borings were backfilled to a few inches bgs with bentonite chips, and finished to grade with asphalt or concrete to match the existing surface.

6.0 LABORATORY ANALYSES

EP Associates collected a total of 87 soil samples from 25 soil borings. The samples were submitted to Cal Tech Environmental Laboratories (Cal Tech) in Paramount, California. Cal

Tech is certified by the California Department of Health Services as a qualified analytical laboratory (ELAP Number 2424).

EP Associates selected 52 of the 87 samples from Borings GP1 through GP25 for analysis of total petroleum hydrocarbons (TPH) (carbon range C5 through C40) using U.S. EPA Method M8015, and for benzene, toluene, ethylbenzene, and xylenes (BTEX) using U.S. EPA Method 8021B. Additionally, EP Associates selected 3 samples, GP12 at 10 feet, GP12 at 15 feet, and GP13 at 10 feet, adjacent to the wastewater clarifier (*Holsum Baking, Inc.*) and three samples, GP21 at 3 feet, GP21 at 8 feet, and GP22 at 3 feet, adjacent to the possible clarifier or floor drain system (*Jamai Spicehouse*), for the analysis of VOCs using U.S. EPA Method 8260B, and for CAM Metals using U.S. EPA Method 6010B/7000CAM. The analytical test methods were selected based on the chemicals suspected to be present at the sample location.

The laboratory test results are summarized in Tables 1, 2, and 3. The certified laboratory reports and the chain-of-custody records are included in Appendix B.

7.0 FINDINGS

7.1 Geophysical Survey. The results of the geophysical survey revealed the presence of several linear anomalies. These were interpreted to be active or abandoned utility lines. No geophysical evidence of USTs were identified in the survey area.

7.2 Subsurface Soil Conditions. The subsurface soils encountered at the Site during drilling consisted primarily of a dark brown to red-brown Silty Sand (SM) at a depth of approximately 5 feet bgs, underlain by a dense, poorly sorted Sand (SW). The Sand (SW) generally consisted of gray-brown, fine to coarse-grained sand with fine, and in some cases, coarse gravel, from approximately 9 feet bgs to drilling refusal, usually about 20 to 25 feet bgs. Occasional silty sand lenses were interbedded with the coarse sands and gravels.

The refusal encountered at most locations was attributed to rocky, dense soil conditions (GP2 at 13 feet, GP19 at 15 feet, GP23 at 12 feet, and GP24 at 8 feet), or probable concrete footings or sub-slabs (GP22 at 3 feet and GP13 at 10 feet). However, at the originally proposed drilling location of Boring GP11, refusal was encountered at a depth of 4 feet bgs. EP Associates relocated to about 2 feet to the south, and the probe tip was deflected off a dense subsurface object at a depth of approximately 2 feet bgs. Subsequently, EP Associates relocated to approximately 5 feet further to the north, east, and west from the original Boring GP11 location, and continued to encounter refusal at approximately 5 feet bgs. According to the Geoprobe operator, the refusal did not appear to be similar to the dense, rocky conditions encountered at other drilling locations. At the eastern step-out location, the tip of the probe appeared to contain some red brick fragments, indicating the possible presence of a buried brick structure or debris; however, it is not known as to what caused the shallow refusal in the area just north of the final

drilling location of Boring GP11, as depicted on Figure 2. The geophysical survey identified an underground pipe or utility in this general area, but did not identify the presence of a UST. Ultimately, the drilling location was moved about 9 feet south of the originally proposed location of GP11, and were able to drill and collect soil samples to a depth of 20 feet bgs.

7.3 Field Observations for Contaminants. The PID registered very low VOC concentrations in most soil samples that were considered to be background readings. No visible hydrocarbon discoloration or odors were observed during logging in any of the soil samples collected from the borings.

7.4 Laboratory Test Results

Total Petroleum Hydrocarbons - As shown in Table 1, TPH, including gasoline (carbon range of C5-C12), diesel (C13-C24), and heavy-end hydrocarbons (C25-C40), were nondetectable in all of the soil samples analyzed.

Volatile Organic Compounds - As shown in Table 2, VOC concentrations were nondetectable in all of the samples analyzed.

Metals - As shown in Table 3, some metals were detected in the samples analyzed. Although observed concentrations of several of the metals are above the detection limits, these concentrations most likely represent background levels. Title 22 of the California Code of Regulations lists two sets of threshold concentrations for metals, known as the total threshold limit concentration (TTLC) and the soluble threshold limit concentration (STLC) values (see Table 3), as guidelines for identifying hazardous waste. If concentrations of toxic substances fall below the TTLC and 10 times the STLC values, then samples are generally considered non-hazardous. However, if the detected TTLC concentration of a metal exceeds 10 times the STLC value, then the sample may potentially contain a metal concentration that exceeds the STLC value. Such a sample is then analyzed by the Waste Extraction Test (WET) method for assessment of the STLC concentration. All of the samples analyzed met the non-hazardous criteria.

8.0 CONCLUSIONS AND RECOMMENDATIONS

The geophysical survey performed for this investigation did not reveal the presence of USTs at the site; it did, however, reveal the possible presence of some buried pipes or utilities.

The laboratory analyses did not detect TPH or VOCs above the method detection limits, or metals above what is considered background concentrations, in any of the 52 soil samples analyzed for this investigation. These findings indicate that the existence of USTs or adverse environmental impact on subsurface soils at the Site due to historical activities is unlikely.

Based on the results of this investigation, EP Associates recommends no further subsurface investigation for environmental characterization purposes be performed at the Site at this time. However, several areas of concern still remain at the Site:

- An anomalous area of refusal was encountered at a depth of approximately 5 feet bgs adjacent to and north of GP11.
- The lack of documentation regarding the disposition of a 1,000 gallon UST that was reportedly abandoned in place in 1963, and a 10,000 gallon UST that was reportedly installed at the site in 1963.

Although EP Associates has made every effort to identify existing subsurface structures at the Site such as clarifiers and USTs, based on the concerns noted above, EP Associates recommends that any previously unidentified structures discovered during future redevelopment activities at the Site be properly removed and disposed of in accordance with all applicable laws and regulations, and that subsurface soils associated with such structures be assessed for environmental contamination, as appropriate. As previously noted in the Addendum Phase I Environmental Site Assessment (EP Associates, 2005), the presence of additional wastewater clarifiers should be investigated when the various units of Building 1 are vacated and the building floor is visible.

9.0 LIMITATIONS

The purpose of an environmental assessment is to reasonably evaluate the potential for, or actual impact of, past practices on a given property. In performing an environmental assessment, it is understood that a reasonable balance between environmental issues must be achieved, as an exhaustive analysis of each conceivable issue of potential concern is not economically feasible. The environmental assessment contains professional opinions about environmental issues and additional actions which may be addressed at the property. Our services provided hereunder were performed within the limits described and in accordance with generally accepted environmental consulting principles and practices. No warranty is expressed or implied.

REFERENCES

City of Glendale-Water Section, 1993. *Briefing Book, Superfund Activities, Glendale Area*, City of Glendale Public Service Department Water Section, Updated 1993.

DWP, 1983. *Groundwater Quality Management Plan, San Fernando Valley Basin*, Prepared for Southern California Association of Governments, Department of Water and Power, July 1, 1983.

EP Associates, 2004. *Phase I Environmental Site Assessment Report, 465 West Los Feliz Road and 434-450 Fernando Court, Glendale, California*, July 14, 2004.

EP Associates, 2005. *Addendum Phase I Environmental Site Assessment, 465 West Los Feliz Road and 434-450 Fernando Court, Glendale, California*, April 19, 2005.

SECOR, 2000. *2000 Annual Groundwater Monitoring Report, Former Franciscan Ceramics Facility, 2901 Los Feliz Boulevard, Los Angeles, California*, SECOR International Incorporated, Project Nos. 014.07731.100 and 014.07732.100, November 1, 2000.

TRAK Environmental Group, 2004. *Report of Environmental Investigation, 465 West Los Feliz Road and 434-450 Fernando Court, Glendale, California*, November 20, 2004.

ULARA Watermaster, 2003. *Watermaster Service in the Upper Los Angeles River Area Los Angeles County, October 1, 2001-September 30, 2002 Upper Los Angeles River Area Watermaster*, May 2003.

U.S. EPA, 1999. *San Fernando Valley Superfund Sites Update*, U.S. Environmental Protection Agency, Region 9, November 1999.

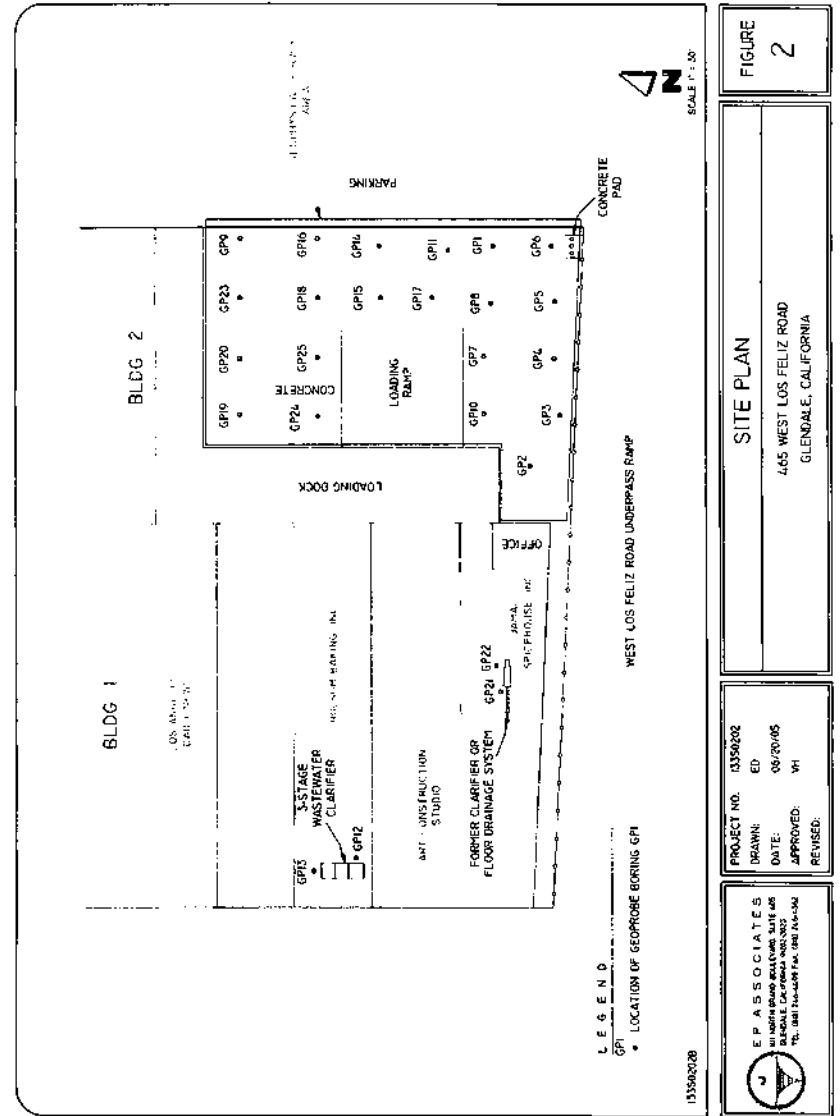


FIGURE
2

SITE PLAN
465 WEST LOS FELIZ ROAD
GLENDALE, CALIFORNIA

PROJECT NO. 0356002
DRAWN: ED
DATE: 06/29/05
APPROVED: WH
REVISED:

EP ASSOCIATES
1556002B
1556002B



1:10000
 1000 FEET 0 1000 METERS
 Revised from TOPON ©2000 Microsoft Corporation/HotNews (www.hotnews.com)



13350202A


 EP ASSOCIATES 62 NORTH BROAD STREET, SUITE 105 GLENDALE, CALIFORNIA 91201-3003 TEL: (818) 240-1889 FAX: (818) 240-1887	PROJECT NO. 13350202	VICINITY MAP	FIGURE 1
	DRAWN: ED	465 WEST LOS FELIZ ROAD GLENDALE, CALIFORNIA	
	DATE: 06/20/05		
	APPROVED: VH		
	REVISED:		

Table 1
Laboratory Test Results for Total Petroleum Hydrocarbons and BTEX Compounds
 465 West Los Feliz Road, Glendale, California
 (Concentrations in milligrams per kilogram)

Sample No.	C8-C12 Gasoline	C13-C24 Diesel	C25-C40 Heavy-end Hydrocarbons	BTEX
GP1-5'	ND	ND	ND	ND
GP1-10'	--	--	--	--
GP1-15'	ND	ND	ND	ND
GP1-20'	ND	ND	ND	ND
GP1-25'	--	--	--	--
GP2-5'	ND	ND	ND	ND
GP2-10'	ND	ND	ND	ND
GP3-5'	ND	ND	ND	ND
GP3-10'	--	--	--	--
GP3-15'	ND	ND	ND	ND
GP3-20'	ND	ND	ND	ND
GP3-25'	--	--	--	--
GP4-5'	--	--	--	--
GP4-10'	--	--	--	--
GP4-15'	ND	ND	ND	ND
GP4-20'	--	--	--	--
GP5-5'	ND	ND	ND	ND
GP5-10'	--	--	--	--
GP5-15'	ND	ND	ND	ND
GP5-20'	--	--	--	--
GP6-5'	ND	ND	ND	ND
GP6-10'	ND	ND	ND	ND
GP6-15'	ND	ND	ND	ND
GP6-20'	ND	ND	ND	ND
GP6-25'	--	--	--	--
GP7-5'	ND	ND	ND	ND
GP7-10'	--	--	--	--
GP7-15'	ND	ND	ND	ND
GP7-20'	ND	ND	ND	ND

-- = not analyzed; ND = not detected at or above the method detection limit

Table 1 (continued)
Laboratory Test Results for Total Petroleum Hydrocarbons and BTEX Compounds
 465 West Los Feliz Road, Glendale, California
 (Concentrations in milligrams per kilogram)

Sample No.	C5-C12 Gasoline	C13-C24 Diesel	C25-C40 Heavy-end Hydrocarbons	BTEX
GP8-5'	ND	ND	ND	ND
GP8-10'	--	--	--	--
GP8-15'	ND	ND	ND	ND
GP8-20'	ND	ND	ND	ND
GP9-5'	ND	ND	ND	ND
GP9-10'	--	--	--	--
GP9-15'	--	--	--	--
GP9-20'	ND	ND	ND	ND
GP10-5'	ND	ND	ND	ND
GP10-10'	--	--	--	--
GP10-15'	--	--	--	--
GP10-20'	ND	ND	ND	ND
GP10-25'	--	--	--	--
GP11-5'	ND	ND	ND	ND
GP11-10'	--	--	--	--
GP11-15'	--	--	--	--
GP11-20'	ND	ND	ND	ND
GP12-10'	ND	ND	ND	ND
GP12-15'	ND	ND	ND	ND
GP13-10'	ND	ND	ND	ND
GP14-5'	ND	ND	ND	ND
GP14-10'	--	--	--	--
GP14-15'	--	--	--	--
GP14-20'	ND	ND	ND	ND
GP14-25'	--	--	--	--
GP15-5'	ND	ND	ND	ND
GP15-10'	--	--	--	--
GP15-15'	--	--	--	--
GP15-20'	ND	ND	ND	ND

-- = not analyzed; ND = not detected at or above the method detection limit

Table 1 (continued)
Laboratory Test Results for Total Petroleum Hydrocarbons and BTEX Compounds
 465 West Los Feliz Road, Glendale, California
 (Concentrations in milligrams per kilogram)

Sample No.	C5-C12 Gasoline	C13-C24 Diesel	C25-C40 Heavy-end Hydrocarbons	BTEX
GP16-5'	ND	ND	ND	ND
GP16-10'	--	--	--	--
GP16-15'	--	--	--	--
GP16-20'	ND	ND	ND	ND
GP17-5'	ND	ND	ND	ND
GP17-10'	--	--	--	--
GP17-15'	--	--	--	--
GP17-20'	ND	ND	ND	ND
GP18-5'	ND	ND	ND	ND
GP18-10'	--	--	--	--
GP18-15'	--	--	--	--
GP18-20'	ND	ND	ND	ND
GP19-5'	ND	ND	ND	ND
GP19-10'	--	--	--	--
GP19-15'	ND	ND	ND	ND
GP20-5'	ND	ND	ND	ND
GP20-10'	--	--	--	--
GP20-15'	--	--	--	--
GP20-20'	ND	ND	ND	ND
GP21-3'	ND	ND	ND	ND
GP21-8'	ND	ND	ND	ND
GP22-3'	ND	ND	ND	ND
GP23-5'	ND	ND	ND	ND
GP23-10'	ND	ND	ND	ND
GP24-5'	ND	ND	ND	ND

-- = not analyzed; ND = not detected at or above the method detection limit

Table 1 (continued)
Laboratory Test Results for Total Petroleum Hydrocarbons and BTEX Compounds
 465 West Los Feliz Road, Glendale, California
 (Concentrations in milligrams per kilogram)

Sample No.	C5-C12 Gasoline	C13-C24 Diesel	C25-C40 Heavy-end Hydrocarbons	BTEX
GP25-5'	ND	ND	ND	ND
GP25-10'	--	--	--	--
GP25-15'	--	--	--	--
GP25-20'	ND	ND	ND	ND

-- = not analyzed; ND = not detected at or above the method detection limit

Table 2
Laboratory Test Results for Volatile Organic Compounds
 465 West Los Feliz Road, Glendale, California
 (Concentrations in micrograms per kilogram)

COMPOUND	GP12-10'	GP12-15'	GP13-18'	GP21-3'	GP21-8'	GP22-3'
Acetone	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoforn	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND	ND	ND
Carbon disulfide	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethane	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND
1,2-Dibromotoluene	ND	ND	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND
Methyl-tert-butyl ether	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
Tetrachloroethane	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND
Vinyl acetate	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND
m,p-Xylenes	ND	ND	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND	ND	ND

Note: ND = Not detected at or above the method detection limit identified in the laboratory report.

Table 3
Laboratory Test Results for Title 22 CAM Metals
 465 West Los Feliz Road, Glendale, California
 (Concentrations in milligrams per kilogram)

Compound	GP12-10'	GP12-15'	GP13-10'	GP21-3'	GP21-8'	GP22-3'	TTLIC	STLC
Antimony	ND	ND	ND	ND	ND	ND	500	15
Arsenic	ND	ND	ND	ND	ND	ND	500	5
Barium	100	110	130	110	120	130	10,000	100
Beryllium	ND	ND	ND	ND	ND	ND	75	0.75
Cadmium	ND	ND	ND	ND	ND	ND	100	1
Chromium	15	16	17	13	15	17	2,500	560
Cobalt	ND	ND	ND	ND	ND	ND	8,000	80
Copper	11	13	14	19	21	14	2,500	25
Lead	ND	ND	ND	ND	ND	ND	1,000	5
Mercury	ND	ND	ND	ND	ND	ND	20	0.2
Molybdenum	ND	ND	ND	ND	ND	ND	3,500	350
Nickel	8.3	8.0	15	14	16	8.2	2,000	20
Selenium	ND	ND	ND	ND	ND	ND	100	1
Silver	ND	ND	ND	ND	ND	ND	500	5
Thallium	ND	ND	ND	ND	ND	ND	700	7
Vanadium	24	25	22	28	21	27	2,400	24
Zinc	42	44	56	54	62	59	5,000	250

Note: ND = Not detected at or above the method detection limit



GEOPHYSICAL INVESTIGATION

**465 West Los Feliz Road
 Glendale, California**

GEOVision Project No. 5312

Prepared for:

EP Associates
 1111 N. Brand Blvd
 Suite 405
 Glendale, California 91202

Prepared by:

GEOVision Geophysical Services
 1151 Pomona Rd, Unit P
 Corona, CA 92882
 (951) 549-1234

May 11, 2005

TABLE OF CONTENTS

1	INTRODUCTION.....	1
2	GEOPHYSICAL TECHNIQUES	2
3	FIELD PROCEDURES.....	3
3.1	SITE PREPARATION	3
3.2	MAGNETIC SURVEY	3
3.3	GSSI SIR-3000 GPR SURVEY.....	3
3.4	FIELD VERIFICATION	4
4	DATA PROCESSING AND INTERPRETATION.....	6
4.1	DATA PROCESSING	5
4.2	INTERPRETATION	6
5	RESULTS.....	7
6	CERTIFICATION.....	8

LIST OF FIGURES

FIGURE 1	SITE MAP WITH GEOPHYSICAL INTERPRETATION
FIGURE 2	COLOR CONTOUR MAP OF VERTICAL MAGNETIC GRADIENT RESPONSE
FIGURE 3	CONTOUR MAP OF 3D GPR DEPTH SLICE FROM 3 – 5 FT

APPENDIX A GEOPHYSICAL TECHNIQUES FOR SHALLOW ENVIRONMENTAL INVESTIGATIONS

1 INTRODUCTION

A geophysical investigation was conducted on April 26, 2005 at a portion of a property located at 465 West Los Feliz Road in Glendale, California. The purpose of the investigation was to screen an approximately sized 60 by 60 ft portion of the site for underground storage tanks that may be present within the survey bounds. Historical documents indicated that a 1,000 gallon and a 10,000 UST had both been permitted for installation at this site; however, there is no record of these tanks being abandoned or removed.

The site consisted of an asphalt parking lot, with sections of reinforced concrete lot bound by loading docks to the north and west, a fence to the south, and survey bounds to the east. Surficial features at the site that affected the geophysical data included parked vehicles, fences, and the reinforced concrete loading docks.

Geophysical techniques used during this investigation included the magnetic, ground penetrating radar (GPR), and electromagnetic (EM) methods. These techniques complement one another as each responds to different physical properties and has different strengths and limitations.

Geophysical techniques used during the investigation are discussed in Section 2. Field procedures are described in Section 3. Data processing and interpretation are discussed in Section 4. The results of the geophysical survey are presented in Section 5, and our professional certification is presented in Section 6.

2 GEOPHYSICAL TECHNIQUES

This section presents background information on the magnetic, GPR and EM methods used during this investigation. A description of the geophysical methods used during this investigation, common applications of the methods, photographs of the instruments, and example applications are included in Appendix A.

The magnetometer used during this investigation consisted of a Geometrics G858 optically pumped cesium-vapor magnetometer (G858). This instrument measures the intensity of the earth's magnetic field in nanoteslas (nT) and, optionally, the vertical gradient of the earth's magnetic field in nanoteslas per meter (nT/m). The vertical magnetic gradient is calculated by measuring the total magnetic field with two sensors at different heights, subtracting the top sensor reading from the bottom sensor reading, and dividing by the sensor separation. Buried ferrous metallic objects give rise to anomalies in the earth's magnetic field. These anomalies are generally dipolar with a positive response south and a negative response north of the object. The dimensions and amplitude of a magnetic anomaly are a function of the size, mass, depth, and magnetic properties of the source. Magnetometers can typically locate a 550-gallon tank to depths of about 10 feet providing background noise levels are not too high and the tank is not extensively corroded. Larger metallic objects can be located to greater depths. The vertical magnetic gradient anomaly due to an object the size of a 550-gallon tank is expected to have dimensions of about 15- by 15-feet. Magnetometers are not able to detect nonferrous metals such as aluminum or brass.

GPR equipment used during this investigation consisted of a Geophysical Survey Systems Inc. (GSSI) SIR-3000 GPR system with 400 MHz antenna. A GPR antenna transmits high-frequency EM waves into the ground. A portion of the energy is reflected back to the surface at the interface of two materials with different electrical properties and it is received at the antenna. High-amplitude, hyperbolic reflections are generally observed on GPR records over buried metallic objects. GPR depth penetration is a function of the electrical conductivity of subsurface soils and the center frequency of the antenna. Depth penetration is very limited in fine-grained soils such as clay. Low frequency antennas achieve greater depth penetration than high frequency antennas at the expense of resolution. At typical sites in Southern California, depth penetration of a 400-MHz antenna is limited to about 3 to 5 feet.

The Fisher TW-6 deep-search metal detector is a frequency-domain electromagnetic instrument. An alternating current is applied to the transmitter coil, causing the coil to radiate a primary EM field. This primary field generates eddy currents in subsurface materials, which give rise to a secondary field EM field. It operates at a frequency of 82 kHz, with a horizontal transmitter-receiver separation of about 3 feet. The Fisher TW-6 is useful for locating pipes and buried metallic objects. An audible tone is generated when the instrument passes over a buried metallic object. The Fisher TW-6 can locate both ferrous and nonferrous metallic objects and can locate a 550-gallon tank to a maximum depth of about 8 feet. The TW-6 must pass directly over or immediately adjacent to a buried metallic object to detect it.

3 FIELD PROCEDURES

This section describes the field procedures used during the investigation, including site preparation, magnetic and GPR survey procedures, and verification of geophysical anomalies.

3.1 Site Preparation

Endpoints of a 2 by 2 ft survey grid were marked with surveyors' paint before the beginning of the geophysical survey. The geophysical survey grid was not tied to the State Plane Coordinate System and is estimated to have an accuracy of about 2 feet. Obvious surface cultural features that could potentially affect the geophysical data (i.e. fences, buildings, vehicles, and other surface metallic objects) were identified in the field and plotted onto a scaled, hand-drawn site map. A site map, transcribed from the field drawings, showing the location of the geophysical survey area, geophysical survey coordinate system, and surficial features is presented as Figure 1.

3.2 Magnetic Survey

Prior to data acquisition, the G858 was programmed with the appropriate line number, direction, sampling interval, and control point spacing. Changes in these parameters were made as necessary during the survey. Measurements of the earth's total magnetic field and vertical magnetic gradient were made at 0.1-second intervals as the operator walked along west to east (W-E) survey lines spaced 4 feet apart. The 2-foot grid points were used for spatial control. A marker key on the instrument was depressed every time a 10-foot control point was crossed and linear interpolation was used to assign station positions to the intermediate readings. The 0.1-second sampling interval resulted in an average station spacing of about 0.5 feet. The magnetic data were stored in the internal memory of the magnetometer, along with line and station number, and time of measurement. If a location error was made on a survey line (station mark skipped, etc.) the line was deleted from the magnetometer's internal memory and reacquired. Magnetic data were downloaded to a laptop computer at the end of the survey using the program MAGMAP 2000 by Geometrics Inc.

3.3 GSSI SIR-3000 GPR Survey

3D GPR data were collected with the SIR-3000 along W-E profiles spaced 2 feet apart. GPR data were acquired semi-continuously (12 scans per foot), as a 400-MHz antenna was hand-towed along the survey lines. A survey wheel was used for spatial control. GPR data were viewed in real time on the SIR-3000 color monitor and saved to the instrument's hard disk for later archiving and processing, if necessary. All field copies of GPR data are retained in the project files. Fine-grained soils restricted the propagation of energy from the radar antenna, limiting its depth of penetration to 5 feet or less in most of the survey area.

3.4 Field Verification

The Fisher TW-6 was assembled and battery levels were checked and found to be within acceptable levels. The instrument's gained response was then set to a background level in a portion of the site with no buried metallic objects. The TW-6 was walked along W-E and N-S lines spaced approximately 4 ft apart. An audible tone indicated the presence of buried metallic objects, and surveyors' paint was used to mark such. Additional GPR data were collected over magnetic and EM anomalies to further characterize their source and dimensions.

4 DATA PROCESSING AND INTERPRETATION

This section presents the data processing procedures and interpretation of the geophysical data.

4.1 Data Processing

Color-enhanced contour maps of magnetic and GPR data were generated using the Geosoft Oasis Montaj® geophysical mapping system. The maps were color-enhanced to aid in the interpretation of subtle anomalies. Prior to map generation, a number of preprocessing steps were completed and included:

- Backup of all original field data files to floppy disk.
- Correcting of all data acquisition errors (typically only deleting the first portion of a reacquired line, renaming lines incorrectly labeled, deleting additional readings outside the grid, etc.)
- Reformatting field data files to free format XYZ files containing line number, station, time (if applicable), and field measurements.
- Merging of multiple data files into a single file and sorting, if necessary.

The output of the data preprocessing was a data file containing line and station number and the reading. These data files were imported into the Oasis Montaj® mapping system and the following data processing steps applied:

- Reformatting of data files to Oasis Montaj® format.
- Generating final map scale.
- Gridding data using down- and cross-line splines or minimum curvature.
- Masking grid in areas where data not acquired (i.e. around site perimeter or building).
- Applying Hanning filter to smooth the data, as necessary.
- Generating color zone file describing color for different data ranges.
- Contouring the data.
- Generating map surrounds (title block, legend, scale, color bar, north arrow, etc.)
- Annotating anomalies.
- Merging various plot files and plotting final map.

GPR data were downloaded to a PC upon completion of the field investigation. 3-D data were processed using a combination of RADAN™ for Windows and GPR-SLICE software packages.

Data preparation and processing steps for the GPR data presented in the report included the following:

- Downloading field data from the SIR-3000 hard disk to an office computer (all data)
- Adjusting the data to a common "time-zero"
- Background removal, as necessary
- Horizontal stacking, as necessary
- Vertical and horizontal high- and low-pass filtering
- Kirchoff Migration
- Gain adjustment

All GPR files were then entered into the RADAN™ 3-D module and a 6-inch thick vertical depth slice was created for each 6-inch interval. The 3D plan view data were used to identify subsurface structures. See Figure 3 to for sample 3D GPR data. In this figure, depth estimates are only accurate to about 15%.

4.2 Interpretation

Color-enhanced contour maps of the vertical magnetic gradient and 3D GPR response at approximate depth slice from 3-5 ft. are presented as Figures 2 and 3, respectively. The coordinates shown on these figures reference the relative geophysical coordinate system in Figure 1. The color bar indicates the amplitude of the measured quantity with the magenta and cyan colors representing high and low amplitudes, respectively. The light orange, yellow and light green colors indicate average "background" values of the measured quantity. A combined interpretation of the geophysical data is presented in Figure 1.

Many anomalies in the magnetic data were field checked to determine if a source of metal at the surface caused the anomaly. Anomalies caused by surface metallic objects are labeled "SM" on the attached color contour maps.

There are several magnetic anomalies interpreted as being caused by buried active or abandoned pipes. These anomalies are labeled as "P" on the respective contour maps.

There is one magnetic anomaly interpreted as being caused by buried metallic debris at or near the ground surface. The size and nature of these anomalies are considered too small to be associated with USTs. This anomaly is labeled as "B" on the contour maps.

Immediately south of the building is a reinforced concrete pad with a very fine mesh. GPR depth of penetration was greatly reduced in this region, possibly to as little as 2 ft. Throughout the remainder of the site GPR depth of investigation was limited to about 5 ft.

5 RESULTS

A geophysical survey was conducted at 465 West Los Feliz Road in Glendale, California to determine the presence of underground storage tanks. The geophysical survey revealed the presence of several linear anomalies, which are interpreted as being active or abandoned utilities. There was no geophysical evidence of a UST in the survey area.

The geophysical survey was designed to locate all buried metallic utilities, and metallic objects the size of a 500-gallon tank, or larger. It is our opinion that the geophysical survey was appropriately designed to locate all such objects less than about 8 feet deep, except in portions of the survey area where data was affected by subsurface utilities or surface structures, such as above-ground utilities, fences, and the reinforced concrete mesh in the southern portion of the survey area.

6 CERTIFICATION

All geophysical data, analysis, interpretations, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by a *GEOVision* California Registered Geophysicist.

Prepared by

JB Shawver

5/11/05

JB Shawver
Project Geophysicist
GEOVision Geophysical Services

Date

Reviewed and approved by

Antony J. Martin



5/11/05

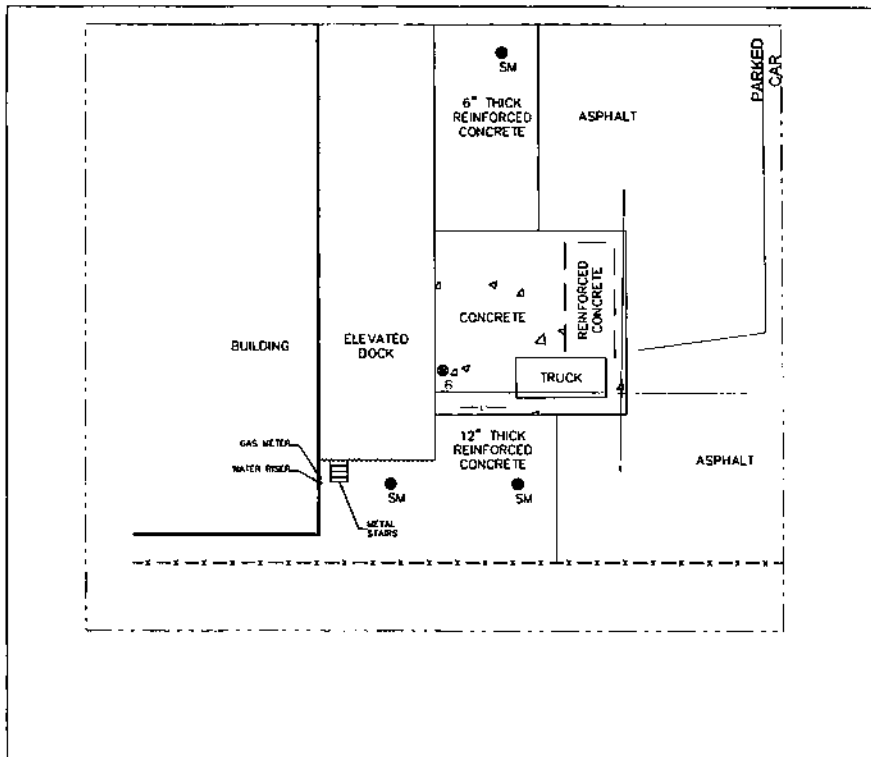
Antony J. Martin
California Registered Geophysicist GP989
GEOVision Geophysical Services

Date

FIGURES

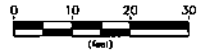
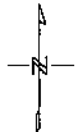
- This geophysical investigation was conducted under the supervision of a California Registered Geophysicist using industry standard methods and equipment. A high degree of professionalism was maintained during all aspects of the project from the field investigation and data acquisition, through data processing interpretation and reporting. All original field data files, field notes and observations, and other pertinent information are maintained in the project files and are available for the client to review for a period of at least one year.

A registered geophysicist's certification of interpreted geophysical conditions comprises a declaration of his/her professional judgment. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations or ordinances.



LEGEND

— — — — —	RELATIVE COORDINATE SYSTEM OF GEOPHYSICAL SURVEY AREA
- - - - -	BOUNDARY OF GEOPHYSICAL SURVEY AREA
- x - x - x -	FENCE
~~~~~	CORRUGATED METAL
- - - - -	UNDERGROUND PIPE (L=UNKNOWN)
● SM	SURFACE METALLIC OBJECT / DEBRIS
⊙ 3	SMALL BURIED METALLIC OBJECT / DEBRIS



**GEOVision**  
 geophysical services  
 a Division of Environmental Resources

Project #	5312
Date	May 12, 2005
Developed by	J SHAWVER
Drawn by	T RODRIGUEZ
Approved by	
File	233123312-1.dwg

**FIGURE - 1**  
**SITE MAP WITH GEOPHYSICAL INTERPRETATION**

PROPERTY LOCATED AT  
 465 WEST LOS FELIZ ROAD  
 GLENDALE CALIFORNIA

PREPARED FOR  
 EP ASSOCIATES

**Appendix D**  
**Regulatory Records Documentation**



**The EDR Radius Map  
with GeoCheck®**

465 Los Feliz  
465 Los Feliz Road and 434-450 Fernando Court  
Glendale, CA 91204

Inquiry Number: 2037078.2s

September 25, 2007



**EDR® Environmental  
Data Resources Inc**

**The Standard in  
Environmental Risk  
Information**

440 Wheelers Farms Road  
Milford, Connecticut 06461

**Nationwide Customer Service**

Telephone: 1-800-352-0050  
Fax: 1-800-231-6802  
Internet: www.edrnet.com

**TABLE OF CONTENTS**

<u>SECTION</u>	<u>PAGE</u>
Executive Summary.....	ES1
Overview Map.....	2
Detail Map.....	3
Map Findings Summary.....	4
Map Findings.....	6
Orphan Summary.....	507
Government Records Searched/Data Currency Tracking.....	GR-1
<b><u>GEOCHECK ADDENDUM</u></b>	
Physical Setting Source Addendum.....	A-1
Physical Setting Source Summary.....	A-2
Physical Setting Source Map.....	A-7
Physical Setting Source Map Findings.....	A-8
Physical Setting Source Records Searched.....	A-12

*Thank you for your business.  
Please contact EDR at 1-800-352-0050  
with any questions or comments.*

**Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analysis, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2007 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission. EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

## 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 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

465 LOS FELIZ ROAD AND 434-450 FERNANDO COURT  
GLENDALE, CA 91204

#### COORDINATES

Latitude (North): 34.127900 - 34° 7' 40.4"  
Longitude (West): 118.261400 - 118° 15' 41.0"  
Universal Transverse Mercator: Zone 11  
UTM X (Meters): 383681.2  
UTM Y (Meters): 3776881.0  
Elevation: 444 ft. above sea level

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 34118-B3 BURBANK, CA  
Most Recent Revision: 1994

East Map: 34118-B2 PASADENA, CA  
Most Recent Revision: 1994

Southeast Map: 34118-A2 LOS ANGELES, CA  
Most Recent Revision: 1994

South Map: 34118-A3 HOLLYWOOD, CA  
Most Recent Revision: 1994

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 5 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
CHEF'S SELECT 465 LOS FELIZ RD GLENDALE, CA 91204	WIP Facility Status: Historical	N/A
GLENDALE ROTARY OFFSET PRINTING 434 FERNANDO CT GLENDALE, CA 91204	HAZNET	N/A
MOUNTAIN VALLEY WATER CO. 465 LOS FELIZ RD GLENDALE, CA 91204	WIP Facility Status: Historical	N/A

## EXECUTIVE SUMMARY

### 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:

#### FEDERAL RECORDS

Proposed NPL ..... Proposed National Priority List Sites  
 Deltisted NPL ..... National Priority List Deletions  
 NPL LIENS ..... Federal Superfund Liens  
 CORRACTS ..... Corrective Action Report  
 RCRA-TSDF ..... Resource Conservation and Recovery Act Information  
 ERNS ..... Emergency Response Notification System  
 HMIRS ..... Hazardous Materials Information Reporting System  
 US INST CONTROL ..... Sites with Institutional Controls  
 DDD ..... Department of Defense Sites  
 FUDS ..... Formerly Used Defense Sites  
 US BROWNFIELDS ..... A Listing of Brownfields Sites  
 CONSENT ..... Superfund (CERCLA) Consent Decrees  
 UMTRA ..... Uranium Mill Tailings Sites  
 ODI ..... Open Dump Inventory  
 TSCA ..... Toxic Substances Control Act  
 FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
 SSTS ..... Section 7 Tracking Systems  
 HIST FTTS ..... FIFRA/TSCA Tracking System Administrative Case Listing  
 ICIS ..... Integrated Compliance Information System  
 LUCIS ..... Land Use Control Information System  
 RADINFO ..... Radiation Information Database  
 LIENS 2 ..... CERCLA Lien Information  
 DOT OPS ..... Incident and Accident Data  
 US CDI ..... Clandestine Drug Labs  
 PADS ..... PCB Activity Database System  
 MLTS ..... Material Licensing Tracking System  
 MINES ..... Mines Master Index File  
 RAATS ..... RCRA Administrative Action Tracking System

#### STATE AND LOCAL RECORDS

SCH ..... School Property Evaluation Program  
 Toxic Pits ..... Toxic Pits Cleanup Act Sites  
 ACONCERN ..... San Gabriel Valley Areas of Concern  
 LIENS ..... Environmental Liens Listing  
 LA Co. Site Mitigation ..... Site Mitigation List  
 VCP ..... Voluntary Cleanup Program Properties  
 CDL ..... Clandestine Drug Labs  
 HAULERS ..... Registered Waste Tire Haulers Listing

#### TRIBAL RECORDS

INDIAN RESERV. .... Indian Reservations

## EXECUTIVE SUMMARY

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land  
 INDIAN UST..... Underground Storage Tanks on Indian Land

### EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants

### 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.

### FEDERAL RECORDS

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 07/18/2007 has revealed that there are 2 NPL sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
<i>SAN FERNANDO VALLEY (AREA 4)</i>	<i>POLLOCK WELLFIELD</i>	<i>0 - 1/8 SSW</i>	<i>0</i>	<i>7</i>
<i>SAN FERNANDO VALLEY (AREA 2)</i>	<i>CRYSTAL SPRINGS WELLFIE</i>	<i>0 - 1/8</i>	<i>0</i>	<i>13</i>

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 04/23/2007 has revealed that there are 2 CERCLIS sites within approximately 0.75 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
<i>SAN FERNANDO VALLEY (AREA 4)</i>	<i>POLLOCK WELLFIELD</i>	<i>0 - 1/8 SSW</i>	<i>0</i>	<i>7</i>
<i>SAN FERNANDO VALLEY (AREA 2)</i>	<i>CRYSTAL SPRINGS WELLFIE</i>	<i>0 - 1/8</i>	<i>0</i>	<i>13</i>

## EXECUTIVE SUMMARY

CERCLIS-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

A review of the CERCLIS-NFRAP list, as provided by EDR, and dated 06/21/2007 has revealed that there is 1 CERCLIS-NFRAP site within approximately 0.75 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
MCBRIDE CHEM CO	4215 WILLIMET AVE	1/4 - 1/2NNW	BM404	341

RCRAInfo: 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. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. 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.

A review of the RCRA-LQG list, as provided by EDR, and dated 06/13/2006 has revealed that there are 3 RCRA-LQG sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
EXXONMOBIL OIL CORP.	1324 S CENTRAL AVE	1/8 - 1/4 ENE	AB1B3	172
METROMEDIA - GLENDALE	1225 LOS ANGELES ST	1/8 - 1/4 NNW	AK226	204
Lower Elevation	Address	Dist / Dir	Map ID	Page
ALSAL OIL CO. INC. NO. 30	3053 LOS FELIZ BLVD	1/4 - 1/2 WSW	AO267	244

RCRAInfo: 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. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. 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.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/13/2006 has revealed that there are 58 RCRA-SQG sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
GUARDIAN X RAY SERVICES	1422 GARDENA AVE	0 - 1/8 SE	D23	36

## EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
LIGHTING SPECIALTIES INC	4111 SAN FERNANDO RD	0 - 1/8 NE	J49	70
ADIN INC	425 CYPRESS	0 - 1/8 N	H54	73
S J AUTO SUPPLY	4101 SAN FERNANDO RD	0 - 1/8 ENE	J56	73
NEWS TYPE SVC INC	1506 GARDENA AVE	0 - 1/8 SE	K67	78
CHURCH PRESS	3915 SAN FERNANDO ROAD	1/8 - 1/4ESE	Q119	118
BEST AUTO CARE	433 MAGNOLIA ST	1/8 - 1/4NNW	U140	135
CENTRAL AUTO REPAIR	1429 S CENTRAL AVE	1/8 - 1/4ENE	Y158	150
MEMORIAL HOSPITAL OF GLENDALE	1420 S CENTRAL AVE	1/8 - 1/4ENE	Y162	151
DISCOUNT TIRE	1415 S CENTRAL AVE	1/8 - 1/4ENE	Y170	162
MODERN AUTO BODY GLENDALE	3829 SAN FERNANDO RD	1/8 - 1/4ESE	AD203	190
WESTLAND GRAPHICS	1225 LOS ANGELES STREET	1/8 - 1/4NNW	AK224	202
GLENDALE AUTO SERVICE	1256 SOUTH CENTRAL	1/8 - 1/4NE	AL242	210
QUALITY BODY WORKS	4411 SAN FERNANDO RD	1/4 - 1/2N	AN249	218
CUSTOM COLOR SVCS	1236 S CENTRAL AVE	1/4 - 1/2NE	AP254	224
KALPAK	4334 TO 4336 SAN FERNAN	1/4 - 1/2N	AN257	227
JOHN BAKER PERFORMANCE	4304 ALGIERS	1/4 - 1/2NNW	303	271
KBJIAN CO	4310 ALGER ST	1/4 - 1/2NNW	AU304	271
STAR CHRYSLER JEEP	1401 S BRAND BLVD	1/4 - 1/2ENE	BB317	281
WANGS IMPORTS	1601 S BRAND BLVD	1/4 - 1/2ESE	AX318	283
BRAND AUTO CENTER	1615 S BRAND BLVD	1/4 - 1/2ESE	AX320	284
GLENDALE AUTO SERVICE	1504 S BRAND AVE	1/4 - 1/2E	AY326	287
NISSAN TOYOTA SERVICE CENTER	1717 S BRAND BLVD UNIT	1/4 - 1/2ESE	BC330	291
ALLEN GWYNN CHEVROLET, INC	1400 S BRAND BLVD	1/4 - 1/2ENE	BB332	293
GLENDALE PORSCHE AUDI	1620 S BRAND BLVD	1/4 - 1/2ESE	AX353	306
GABIS AUTO ELECTRIC	4501 SAN FERNANDO RD	1/4 - 1/2NNW	BI370	315
GLENDALE AUTO BODY	511 W CHEVYCHASE	1/4 - 1/2NNW	BI384	324
ADAMS RITE PRODUCTS, INC	540 W CHEVY CHASE DR	1/4 - 1/2NNW	BL396	330
GLENDALE CITY OF PUBLIC WORKS	541 W CHEVY CHASE	1/4 - 1/2NNW	BL400	336
TOYOTA OF GLENDALE	1260 S BRAND BLVD	1/4 - 1/2ENE	BR415	353
GLENDALE MITSUBISHI	1235 S BRAND BLVD	1/4 - 1/2ENE	BT423	358
MIKELOFF BROS BODY SHOP	4514 SAN FERNANDO RD	1/4 - 1/2NNW	BU428	362
NEW CENTURY CADILLAC PONTIAC	1225 S BRAND BLVD	1/4 - 1/2ENE	BT435	370
1-DAY PAINT AND BODY CENTERS I	4515 SAN FERNANDO RD	1/4 - 1/2NNW	BU439	378
GLENDALE AMC JEEP-SUBARU	1220 S BRAND AVE	1/4 - 1/2ENE	BT442	380
B & W PRECISION INC	430 W ACACIA	1/4 - 1/2N	BZ450	396
PIONEER DIECASTERS INCORPORATE	4209 CHEVY CHASE DR.	1/4 - 1/2NNW	CB474	397
SYSTEMS & METHODS, INC	4200 CHEVY CHASE DR	1/4 - 1/2NNW	CB498	410
THE ELEPHANT SHIRT COMPANY	1212 S BRAND BLVD UNIT	1/4 - 1/2NE	CD500	412
GEORGES TEXACO	1327 S. GLENDALE AVE	1/4 - 1/2ENE	CG519	434
TEXACO SERVICE STATION	1327 S GLENDALE AVE U S	1/4 - 1/2ENE	CG520	437
STAR ACURA ISUZU	1124 S BRAND BLVD	1/4 - 1/2NE	CH524	440
H A PRO AUTO REPAIR	1305 S GLENDALE AVE	1/4 - 1/2ENE	CK538	449
GLENDALE DODGE	1101 S BRAND BLVD	1/4 - 1/2NE	CM548	459
GLENDALE DODGE	1101 S BRAND BLVD	1/4 - 1/2NE	CM551	461
Lower Elevation	Address	Dist / Dir	Map ID	Page
FRANCISCAN PROMENADE	2901 LOS FELIZ BLVD	0 - 1/8 SW	G36	42
KIMBALL CLEANERS	1630 S CENTRAL AVE	1/8 - 1/4SE	P112	114
PACIFIC MECHANICAL INDS INC	328 EL BONITO AVE	1/8 - 1/4SE	A200	189
SHELL SERVICE STATION	3053 LOS FELIZ	1/4 - 1/2WSW	A0265	242
STAR AUTO BODY	3737 SAN FERNANDO ROAD	1/4 - 1/2SE	A2328	288
W COAST MOTORCYCLES DBA HARLEY	3721 SAN FERNANDO RD	1/4 - 1/2SE	A2331	292
OTIS ELEVATOR	345 MIRALOMA AVE	1/4 - 1/2SE	BD334	299
MERRY X RAY CHEMICAL CORP	340 MIRA LOMA AVE	1/4 - 1/2SE	BD336	300
HARLEY DAVIDSON OF GLENDALE	3717 SAN FERNANDO RD	1/4 - 1/2SE	BE377	317

## EXECUTIVE SUMMARY

Lower Elevation	Address	Dist / Dir	Map ID	Page
BIG 4 AUTOPAINTING	1801 S BRAND BLVD	1/4 - 1/2 SE	BO430	364
HENNELLS-WEST INC	1755A GARDENA AVENUE	1/4 - 1/2 SSE	BX443	382
CALIFORNIA COLLISION CENTER	1821 S BRAND BLVD	1/4 - 1/2 SE	BV446	393
I A FORMAL WEAR	320S LOS FELIZ BLVD	1/4 - 1/2 WSW	CF516	426

ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 04/20/2007 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
SAN FERNANDO VALLEY (AREA 2)	CRYSTAL SPRINGS WELLFIE	0 - 1/8	0	13

RODS: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 06/08/2007 has revealed that there is 1 ROD site within approximately 1.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
SAN FERNANDO VALLEY (AREA 2)	CRYSTAL SPRINGS WELLFIE	0 - 1/8	0	13

TRIS: The Toxic Chemical Release Inventory System identifies facilities that release toxic chemicals to the air, water, and land in reportable quantities under SARA Title III, Section 313. The source of this database is the U.S. EPA.

A review of the TRIS list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 TRIS site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
METROMEDIA TECHNOLOGIES GLENDA	1225 LOS ANGELES ST	1/8 - 1/4NNW	AK228	205

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 07/19/2007 has revealed that there are 20 FINDS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
SAN FERNANDO VALLEY (AREA 4)	POLLOCK WELLFIELD	0 - 1/8 SSW	0	7
SAN FERNANDO VALLEY (AREA 2)	CRYSTAL SPRINGS WELLFIE	0 - 1/8	0	13
GUARDIAN X RAY SERVICES	1422 GARDENA AVE	0 - 1/8 SE	D23	36

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>LIGHTING SPECIALTIES INC</b>	<b>4111 SAN FERNANDO RD</b>	<b>0 - 1/8 NE</b>	<b>J49</b>	<b>70</b>
<b>ADIN INC</b>	<b>425 CYPRESS</b>	<b>0 - 1/8 N</b>	<b>H53</b>	<b>73</b>
<b>S J AUTO SUPPLY</b>	<b>4101 SAN FERNANDO RD</b>	<b>0 - 1/8 ENE</b>	<b>J56</b>	<b>73</b>
<b>NEWS TYPE SVC INC</b>	<b>1506 GARDENA AVE</b>	<b>0 - 1/8 SE</b>	<b>K67</b>	<b>78</b>
<b>IVY HILL LITHOGRAPH</b>	<b>1275 LOS ANGELES STREET</b>	<b>0 - 1/8 NNW</b>	<b>N109</b>	<b>114</b>
<b>CHURCH PRESS</b>	<b>3915 SAN FERNANDO ROAD</b>	<b>1/8 - 1/4 ESE</b>	<b>Q119</b>	<b>118</b>
<b>BEST AUTO CARE</b>	<b>433 MAGNOLIA ST</b>	<b>1/8 - 1/4 NNW</b>	<b>U140</b>	<b>135</b>
<b>CENTRAL AUTO REPAIR</b>	<b>1429 S CENTRAL AVE</b>	<b>1/8 - 1/4 ENE</b>	<b>Y158</b>	<b>150</b>
<b>GLENDALE MEMORIAL HOSPITAL &amp; H</b>	<b>1420 S CENTRAL AVE</b>	<b>1/8 - 1/4 ENE</b>	<b>Y167</b>	<b>155</b>
<b>DISCOUNT TIRE</b>	<b>1415 S CENTRAL AVE</b>	<b>1/8 - 1/4 ENE</b>	<b>Y170</b>	<b>162</b>
<b>EXXONMOBIL OIL CORP.</b>	<b>1324 S CENTRAL AVE</b>	<b>1/8 - 1/4 ENE</b>	<b>AB184</b>	<b>173</b>
<b>MODERN AUTO BODY GLENDALE</b>	<b>3829 SAN FERNANDO RD</b>	<b>1/8 - 1/4 ESE</b>	<b>AD203</b>	<b>190</b>
<b>METROMEDIA TECHNOLOGIES INC</b>	<b>1225 LOS ANGELES AVE</b>	<b>1/8 - 1/4 NNW</b>	<b>AK227</b>	<b>204</b>
<b>GLENDALE AUTO SERVICE</b>	<b>1256 SOUTH CENTRAL</b>	<b>1/8 - 1/4 NE</b>	<b>AL242</b>	<b>210</b>
<b>Lower Elevation</b>	<b>Address</b>	<b>Dist / Dir</b>	<b>Map ID</b>	<b>Page</b>
<b>FRANCISCAN PROMENADE</b>	<b>2901 LOS FELIZ BLVD</b>	<b>0 - 1/8 SW</b>	<b>G36</b>	<b>42</b>
<b>KIMBALL CLEANERS</b>	<b>1630 S CENTRAL AVE</b>	<b>1/8 - 1/4 SE</b>	<b>P112</b>	<b>114</b>
<b>PACIFIC MECHANICAL INDS INC</b>	<b>326 EL BONITO AVE</b>	<b>1/8 - 1/4 SE</b>	<b>AE200</b>	<b>189</b>

### STATE AND LOCAL RECORDS

**HIST CAL-SITES:** Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIRSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there are 4 HIST Cal-Sites sites within approximately 1.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>SAN FERNANDO VALLEY (AREA 4)</b>	<b>POLLOCK WELLFIELD</b>	<b>0 - 1/8 SSW</b>	<b>0</b>	<b>7</b>
<b>SAN FERNANDO VALLEY (AREA 2)</b>	<b>CRYSTAL SPRINGS WELLFIE</b>	<b>0 - 1/8</b>	<b>0</b>	<b>13</b>
<b>WILSHIRE PROPERTIES</b>	<b>4655 SAN FERNANDO ROAD</b>	<b>1/2 - 1 NNW</b>	<b>587</b>	<b>490</b>
<b>Lower Elevation</b>	<b>Address</b>	<b>Dist / Dir</b>	<b>Map ID</b>	<b>Page</b>
<b>FRANCISCAN CERAMICS, INC.</b>	<b>2901 LOS FELIZ BOULEVAR</b>	<b>0 - 1/8 SW</b>	<b>G40</b>	<b>59</b>

**BEP:** 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.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there are 2 CA BOND EXP. PLAN sites within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>FRANCISCAN CERAMICS, INC.</b>	<b>2901 LOS FELIZ BOULEVAR</b>	<b>0 - 1/8 SW</b>	<b>G40</b>	<b>59</b>
<b>SAN FERNANDO VALLEY GROUND WAT</b>	<b>POLLACK AREA</b>	<b>1/2 - 1 SSW</b>	<b>600</b>	<b>502</b>

## EXECUTIVE SUMMARY

**SWFLF:** The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWFLF list, as provided by EDR, and dated 06/11/2007 has revealed that there is 1 SWFLF site within approximately 0.75 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>CITY OF GLENDALE CORPORATION Y</b>	<b>541 CHEVY CHASE BLVD.</b>	<b>1/4 - 1/2 NNW</b>	<b>458</b>	<b>390</b>

**WDS:** California Water Resources Control Board - Waste Discharge System.

A review of the CA WDS list, as provided by EDR, and dated 05/19/2007 has revealed that there is 1 CA WDS site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>AMBRIT INDUSTRIES</b>	<b>1288 LOS ANGELES ST</b>	<b>0 - 1/8 NNW</b>	<b>180</b>	<b>88</b>

**WMUDS/SWAT:** The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there is 1 WMUDS/SWAT site within approximately 0.75 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>SAN FERNANDO &amp; BRAZIL-GLENDALE</b>	<b>800' W SAN FERNANDO 800</b>	<b>1/4 - 1/2 ESE</b>	<b>BS432</b>	<b>368</b>

**CORTESE:** This database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration. The source is the California Environmental Protection Agency/Office of Emergency Information.

A review of the Cortese list, as provided by EDR, and dated 04/01/2001 has revealed that there are 14 Cortese sites within approximately 0.75 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>SAN FERNANDO VALLEY (AREA 4)</b>	<b>POLLOCK WELLFIELD</b>	<b>0 - 1/8 SSW</b>	<b>0</b>	<b>7</b>
<b>ARCO #0051 (FORMER)</b>	<b>3941 SAN FERNANDO RD</b>	<b>0 - 1/8 E</b>	<b>O105</b>	<b>109</b>
<b>MOBIL #11-GD4</b>	<b>1324 CENTRAL AVE S</b>	<b>1/8 - 1/4 ENE</b>	<b>AB187</b>	<b>178</b>
<b>GLENDALE BUILDERS SUPPLY</b>	<b>4415 SAN FERNANDO RD</b>	<b>1/4 - 1/2 N</b>	<b>AN260</b>	<b>232</b>
<b>MCBRIDE CHEMICAL</b>	<b>4215 WILLIMET AVE</b>	<b>1/4 - 1/2 NNW</b>	<b>BM405</b>	<b>342</b>
<b>A &amp; J AUTO SERVICE</b>	<b>1305 GLENDALE AVE S</b>	<b>1/4 - 1/2 ENE</b>	<b>CK537</b>	<b>446</b>
<b>MOBIL #11-K2H</b>	<b>1028 BRAND BLVD S</b>	<b>1/2 - 1 NE</b>	<b>CP563</b>	<b>471</b>
<b>ACE SANDBLASTING CO</b>	<b>530 GARFIELD AVE W</b>	<b>1/2 - 1 NNW</b>	<b>567</b>	<b>477</b>
<b>LA MTA DIVISION 1</b>	<b>624 CENTRAL</b>	<b>1/2 - 1 NNE</b>	<b>595</b>	<b>494</b>
<b>PACIFIC BMW</b>	<b>732 BRAND BLVD S</b>	<b>1/2 - 1 NNE</b>	<b>598</b>	<b>495</b>
<b>Lower Elevation</b>	<b>Address</b>	<b>Dist / Dir</b>	<b>Map ID</b>	<b>Page</b>
<b>FRANCISCAN CERAMICS, INC.</b>	<b>2901 LOS FELIZ</b>	<b>0 - 1/8 SW</b>	<b>G39</b>	<b>58</b>
<b>SHELL #204-4540-6406</b>	<b>3053 LOS FELIZ BLVD</b>	<b>1/4 - 1/2 WSW</b>	<b>AO281</b>	<b>234</b>

## EXECUTIVE SUMMARY

Lower Elevation	Address	Dist / Dir	Map ID	Page
<b>THRIFTY #013 (FORMER)</b>	<b>3680 SAN FERNANDO RD</b>	<b>1/2 - 1 SE</b>	<b>557</b>	<b>465</b>
<b>KATZENBACH AND WARREN PROPERTY</b>	<b>4000 CHEVY CHASE DR</b>	<b>1/2 - 1 NW</b>	<b>577</b>	<b>484</b>

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 07/09/2007 has revealed that there are 5 SWRCY sites within approximately 0.75 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
<b>VACANT LOT</b>	<b>4300 ALGER ST</b>	<b>1/4 - 1/2NNW</b>	<b>AU294</b>	<b>256</b>
<b>WM RECYCLE AMERICA LLC</b>	<b>540 W CHEVY CHASE AVE</b>	<b>1/4 - 1/2NNW</b>	<b>BL397</b>	<b>330</b>
<b>ALLAN CO/GLENDALE RECYCLING CE</b>	<b>540 W CHEVY CHASE DR</b>	<b>1/4 - 1/2NNW</b>	<b>BL398</b>	<b>331</b>
<b>TOMRA PACIFIC INC/ALBERTSONS #</b>	<b>1000 S CENTRAL AVE</b>	<b>1/4 - 1/2NNE</b>	<b>510</b>	<b>417</b>

Lower Elevation	Address	Dist / Dir	Map ID	Page
<b>KEEP DRINKING RECYCLING/ATWATE</b>	<b>3111 GLENDALE BLVD</b>	<b>1/2 - 1 S</b>	<b>597</b>	<b>495</b>

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 07/10/2007 has revealed that there are 15 LUST sites within approximately 0.75 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
<b>CALIFORNIA CAR WASH</b> Facility Status: Preliminary site assessment underway	<b>3940 SAN FERNANDO RD</b>	<b>0 - 1/8 E</b>	<b>O97</b>	<b>98</b>
<b>ARCO #0051 (FORMER)</b> Facility Status: Case Closed	<b>3941 SAN FERNANDO RD</b>	<b>0 - 1/8 E</b>	<b>O106</b>	<b>109</b>
<b>MOBIL #11-GD4</b> Facility Status: Case Closed	<b>1324 CENTRAL AVE S</b>	<b>1/8 - 1/4ENE</b>	<b>AB187</b>	<b>178</b>
<b>MOBIL #18-GD4</b> Facility Status: Remedial action (cleanup) Underway	<b>1324 CENTRAL AVE S</b>	<b>1/8 - 1/4 ENE</b>	<b>AB188</b>	<b>180</b>
<b>GLENDALE BUILDERS SUPPLY</b> Facility Status: Case Closed	<b>4415 SAN FERNANDO RD</b>	<b>1/4 - 1/2N</b>	<b>AN260</b>	<b>232</b>
<b>MCBRIDE CHEMICAL</b> Facility Status: Case Closed	<b>4215 WILLIMET AVE</b>	<b>1/4 - 1/2NNW</b>	<b>BM405</b>	<b>342</b>
<b>A &amp; J AUTO SERVICE</b> Facility Status: Case Closed	<b>1395 GLENDALE AVE S</b>	<b>1/4 - 1/2ENE</b>	<b>CK537</b>	<b>446</b>
<b>MOBIL #11-K2H</b> Facility Status: Case Closed	<b>1028 BRAND BLVD S</b>	<b>1/2 - 1 NE</b>	<b>CP563</b>	<b>471</b>
<b>ACE SANDBLASTING CO</b> Facility Status: Case Closed	<b>530 GARFIELD AVE W</b>	<b>1/2 - 1 NNW</b>	<b>567</b>	<b>477</b>
<b>PACIFIC BMW</b> Facility Status: Case Closed	<b>732 BRAND BLVD S</b>	<b>1/2 - 1 NNE</b>	<b>598</b>	<b>495</b>

Lower Elevation	Address	Dist / Dir	Map ID	Page
<b>SHELL #204-4540-6406</b> Facility Status: Case Closed	<b>3053 LOS FELIZ BLVD</b>	<b>1/4 - 1/2 WSW</b>	<b>A0261</b>	<b>234</b>

## EXECUTIVE SUMMARY

Lower Elevation	Address	Dist / Dir	Map ID	Page
<b>SHELL SERVICE STATION</b> Facility Status: Pollution Characterization	<b>3053 LOS FELIZ</b>	<b>1/4 - 1/2WSW</b>	<b>A0266</b>	<b>242</b>
<b>THRIFTY #013 (FORMER)</b> Facility Status: Case Closed	<b>3680 SAN FERNANDO RD</b>	<b>1/2 - 1 SE</b>	<b>557</b>	<b>465</b>
<b>HIGHLAND FEDERAL BANK</b> Facility Status: Case Closed	<b>3355 GLENDALE BLVD</b>	<b>1/2 - 1 SSE</b>	<b>566</b>	<b>475</b>
<b>KATZENBACH AND WARREN PROPERTY</b>	<b>4000 CHEVY CHASE DR</b>	<b>1/2 - 1 NW</b>	<b>577</b>	<b>484</b>
Facility Status: Preliminary site assessment underway				

CA FID: 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 22 CA FID UST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
<b>GLENDALE MEMORIAL HOSPITAL</b>	<b>1420 S CENTRAL AVE</b>	<b>1/8 - 1/4ENE</b>	<b>Y168</b>	<b>157</b>
<b>RAYNE WATER CONDITIONING</b>	<b>418 W PALMER AVE</b>	<b>1/8 - 1/4N</b>	<b>AG214</b>	<b>196</b>
<b>GLENDALE BUILDERS SUPPLIES</b>	<b>4415 SAN FERNANDO RD</b>	<b>1/4 - 1/2N</b>	<b>AN259</b>	<b>230</b>
<b>MELCO WIRE PRODUCTS HENRY DAVI</b>	<b>4420 SAN FERNANDO RD</b>	<b>1/4 - 1/2N</b>	<b>AN278</b>	<b>248</b>
<b>SUN MACHINERY COMPANY</b>	<b>4304 ALGER ST</b>	<b>1/4 - 1/2NNW</b>	<b>AU298</b>	<b>261</b>
<b>GLENDALE FIRE STATION #22</b>	<b>1505 S BRAND BLVD</b>	<b>1/4 - 1/2 E</b>	<b>AY313</b>	<b>278</b>
<b>SIERRA LEASING CO</b>	<b>1308 S BRAND BLVD</b>	<b>1/4 - 1/2ENE</b>	<b>BF382</b>	<b>322</b>
<b>MCBRIDE CHEMICAL</b>	<b>4215 WILLIMET AVE</b>	<b>1/4 - 1/2NNW</b>	<b>BM405</b>	<b>342</b>
<b>MORRISON AUTOMOTIVE GROUP, INC</b>	<b>1225 S BRAND BLVD</b>	<b>1/4 - 1/2ENE</b>	<b>BT433</b>	<b>369</b>
<b>PIONEER DIECASTERS INCORPORATE</b>	<b>4209 CHEVY CHASE DR</b>	<b>1/4 - 1/2NNW</b>	<b>CB474</b>	<b>397</b>
<b>FOREST LAWN MEMORIAL</b>	<b>1712 GLENDALE AVE</b>	<b>1/4 - 1/2ESE</b>	<b>CE511</b>	<b>417</b>
<b>TEXACO REFINING &amp; MARKET, INC.</b>	<b>1327 S GLENDALE AVE</b>	<b>1/4 - 1/2ENE</b>	<b>CG518</b>	<b>431</b>
<b>JACK ELLIS GLENDALE DODGE</b>	<b>1101 S BRAND BLVD</b>	<b>1/4 - 1/2NE</b>	<b>CM547</b>	<b>456</b>

Lower Elevation	Address	Dist / Dir	Map ID	Page
<b>FRANCISCAN PROMENADE</b>	<b>2901 LOS FELIZ BLVD</b>	<b>0 - 1/8 SW</b>	<b>G36</b>	<b>42</b>
<b>GLENDALE TRANSFER &amp; STORAGE</b>	<b>1601 GARDENA AVE</b>	<b>1/8 - 1/4SSE</b>	<b>R124</b>	<b>122</b>
<b>KAROL'S GENERAL GARAGE</b>	<b>1621 S CENTRAL AVE</b>	<b>1/8 - 1/4SE</b>	<b>S127</b>	<b>124</b>
<b>LOS FELIZ CAR WASH</b>	<b>3013 LOS FELIZ BLVD</b>	<b>1/8 - 1/4 WSW</b>	<b>AC220</b>	<b>200</b>
<b>SERVICE STATION 4252</b>	<b>3050 LOS FELIZ BLVD</b>	<b>1/4 - 1/2 WSW</b>	<b>AQ251</b>	<b>221</b>
<b>SHELL OIL COMPANY</b>	<b>3053 LOS FELIZ BLVD</b>	<b>1/4 - 1/2 WSW</b>	<b>AQ265</b>	<b>240</b>
<b>SEGES AUTOMOTIVE INC</b>	<b>3073 LOS FELIZ BLVD</b>	<b>1/4 - 1/2 WSW</b>	<b>AV297</b>	<b>259</b>
<b>UNK</b>	<b>4200 VERDANT ST</b>	<b>1/4 - 1/2NW</b>	<b>BA325</b>	<b>299</b>
<b>ACME RENTAL INC.</b>	<b>1855 S BRAND BLVD</b>	<b>1/4 - 1/2SE</b>	<b>CC477</b>	<b>401</b>

CA SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 08/03/2007 has revealed that there are 9 SLIC sites within approximately 0.75 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
<b>GUARDIAN X RAY SERVICES</b> Facility Status: Reopen Previously Closed Case	<b>1422 GARDENA AVE</b>	<b>0 - 1/8 SE</b>	<b>D23</b>	<b>36</b>

## EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
<b>VEGE KURL</b> Facility Status: Reopen Previously Closed Case	<b>4115 SAN FERNANDO RD</b>	<b>0 - 1/8 NE</b>	<b>J59</b>	<b>75</b>
<b>PRESTIGE STATIONS, INC #513</b> Facility Status: Reopen Previously Closed Case	<b>3941 SAN FERNANDO RD.</b>	<b>0 - 1/8 E</b>	<b>O107</b>	<b>113</b>
<b>CUSTOM COLOR SERVICES, INC.</b> Facility Status: Reopen Previously Closed Case	<b>1236 S. CENTRAL AVE.</b>	<b>1/4 - 1/2NE</b>	<b>AP255</b>	<b>225</b>
<b>ADAMS RITE</b> Facility Status: Remedial Action Underway	<b>540 W. CHEVY CHASE</b>	<b>1/4 - 1/2NNW</b>	<b>BL401</b>	<b>338</b>
<b>Not reported</b> Facility Status: Preliminary Site Assessment Underway	<b>541 W. CHEVY CHASE DR.</b>	<b>1/4 - 1/2NNW</b>	<b>BL402</b>	<b>339</b>
Lower Elevation	Address	Dist / Dir	Map ID	Page
<b>FRANCISCAN PROMENADE</b> Facility Status: Pollution Characterization	<b>2901 LOS FELIZ BLVD</b>	<b>0 - 1/8 SW</b>	<b>G36</b>	<b>42</b>
<b>KATZENBACH AND WARREN PROPERTY</b> Facility Status: Pollution Characterization	<b>4000 CHEVY CHASE DR</b>	<b>1/2 - 1 NW</b>	<b>577</b>	<b>484</b>
<b>PAN KAJ INTERNATIONAL INC.</b> Facility Status: Case Open	<b>3040 ROSSLYN ST.</b>	<b>1/2 - 1 SE</b>	<b>CV588</b>	<b>492</b>

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, and dated 07/10/2007 has revealed that there are 11 UST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
<b>GLENDALE MEMORIAL HOSPITAL AND MAINTENANCE &amp; OPERATIONS YARD</b>	<b>CENTRAL &amp; LOS FELIZ</b>	<b>1/8 - 1/4ENE</b>	<b>Y175</b>	<b>164</b>
<b>ANDRIASSIAN, ROBERT (09GD4)</b>	<b>333 W MAGNOLIA AVE.</b>	<b>1/8 - 1/4ENE</b>	<b>AA181</b>	<b>169</b>
<b>PUBLIC WORKS - CORP. YARD</b>	<b>1324 S CENTRAL</b>	<b>1/8 - 1/4ENE</b>	<b>AB192</b>	<b>185</b>
<b>PUBLIC WORKS - INTEGRATED WAST</b>	<b>541 W. CHEVY CHASE DR.</b>	<b>1/4 - 1/2NNW</b>	<b>BL394</b>	<b>329</b>
<b>FOREST LAWN MEMORIAL PARK, GLEN</b>	<b>548 W. CHEVY CHASE DR.</b>	<b>1/4 - 1/2NNW</b>	<b>BN408</b>	<b>351</b>
<b>GEORGES TEXACO</b>	<b>1712 S GLENDALE AVE</b>	<b>1/4 - 1/2ESE</b>	<b>CE515</b>	<b>426</b>
	<b>1327 S. GLENDALE AVE</b>	<b>1/4 - 1/2ENE</b>	<b>CG519</b>	<b>434</b>
Lower Elevation	Address	Dist / Dir	Map ID	Page
<b>SUPPOSE U DRIVE TRUCK RENTAL S</b>	<b>3809 SAN FERNANDO ROAD</b>	<b>1/4 - 1/2SE</b>	<b>AM248</b>	<b>212</b>
<b>SIMON'S CHEVRON</b>	<b>3050 LOS FELIZ BLVD</b>	<b>1/4 - 1/2WSW</b>	<b>AO250</b>	<b>221</b>
<b>LOS FELIZ SHELL</b>	<b>3053 LOS FELIZ BLVD</b>	<b>1/4 - 1/2WSW</b>	<b>AO263</b>	<b>240</b>
<b>SERGES AUTOMOTIVE INC</b>	<b>3073 LOS FELIZ BLVD</b>	<b>1/4 - 1/2WSW</b>	<b>AV296</b>	<b>259</b>

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 45 HIST UST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
<b>AMTREAT CORP</b>	<b>1405 RAILROAD ST</b>	<b>0 - 1/8 SE</b>	<b>D17</b>	<b>33</b>
<b>PACIFIC STATES BOX &amp; BASKET CO</b>	<b>1295 LOS ANGELES ST</b>	<b>0 - 1/8 NNW</b>	<b>146</b>	<b>68</b>

## EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
<b>CALIFORNIA CARWASH</b>	<b>3940 SAN FERNANDO RD</b>	<b>0 - 1/8 E</b>	<b>O89</b>	<b>101</b>
<b>PRESTIGE STATIONS INC #513</b> <b>W &amp; W MFG. CO., INC.</b>	<b>3941 SAN FERNANDO RD</b> <b>426 MAGNOLIA AVE</b>	<b>0 - 1/8 E</b>	<b>O105</b>	<b>107</b>
<b>ARTCO NATIONAL CORP.</b>	<b>412 MAGNOLIA AVE</b>	<b>1/8 - 1/4N</b>	<b>U137</b>	<b>131</b>
<b>GLENDALE MEMORIAL HOSPITAL &amp; H</b>	<b>1420 S CENTRAL AVE</b>	<b>1/8 - 1/4ENE</b>	<b>Y164</b>	<b>153</b>
<b>MAGNOLIA MAINTENANCE CENTER</b>	<b>333 MAGNOLIA AVE</b>	<b>1/8 - 1/4 NE</b>	<b>AA180</b>	<b>167</b>
<b>MOBIL OIL CORP SS 11GD4 ROBERT</b>	<b>1324 S CENTRAL AVE</b>	<b>1/8 - 1/4ENE</b>	<b>AB185</b>	<b>173</b>
<b>RAYNE OF FOOTHILL</b>	<b>418 W PALMER AVE</b>	<b>1/8 - 1/4N</b>	<b>AG215</b>	<b>197</b>
<b>GLENDALE BUILDERS' SUPPLIES</b>	<b>4415 SAN FERNANDO RD</b>	<b>1/4 - 1/2N</b>	<b>AN258</b>	<b>227</b>
<b>MELCO WIRE PRODUCTS HENRY DAVI</b>	<b>4420 SAN FERNANDO RD</b>	<b>1/4 - 1/2N</b>	<b>AN278</b>	<b>248</b>
<b>SUN MACHINERY CO.</b>	<b>4304 ALGER ST</b>	<b>1/4 - 1/2NNW</b>	<b>AU299</b>	<b>282</b>
<b>GLENDALE FIRE STATION #22</b>	<b>1505 S BRAND BLVD</b>	<b>1/4 - 1/2 E</b>	<b>AY312</b>	<b>278</b>
<b>WANG'S IMPORTS</b>	<b>106 EULALIA</b>	<b>1/4 - 1/2ESE</b>	<b>AX316</b>	<b>281</b>
<b>STAR CHRYSLER JEEP</b>	<b>1401 S BRAND BLVD</b>	<b>1/4 - 1/2ENE</b>	<b>BB317</b>	<b>281</b>
<b>ALLEN GWYNN CHEVROLET, INC</b>	<b>1400 S BRAND BLVD</b>	<b>1/4 - 1/2ENE</b>	<b>BB332</b>	<b>283</b>
<b>WIECHMANN CONCRETE INC</b>	<b>422 W CHEVY CHASE DR</b>	<b>1/4 - 1/2N</b>	<b>BG357</b>	<b>308</b>
<b>U-HAUL CENTER OF GLENDALE</b>	<b>1313 S BRAND BLVD</b>	<b>1/4 - 1/2ENE</b>	<b>BF368</b>	<b>313</b>
<b>SIERRA LEASING CO.</b>	<b>1308 S BRAND BLVD</b>	<b>1/4 - 1/2ENE</b>	<b>BF383</b>	<b>323</b>
<b>CITY OF GLENDALE PUBLIC W YARD</b>	<b>541 W CHEVY CHASE DR</b>	<b>1/4 - 1/2NNW</b>	<b>BL389</b>	<b>331</b>
<b>MCBRIDE CHEMICAL</b>	<b>4215 WILLIMET AVE</b>	<b>1/4 - 1/2NNW</b>	<b>BM405</b>	<b>342</b>
<b>CITY OF GLENDALE SANITATION YD</b>	<b>548 W CHEVY CHASE DR</b>	<b>1/4 - 1/2NNW</b>	<b>BN407</b>	<b>348</b>
<b>TOYOTA OF GLENDALE</b>	<b>1260 S BRAND BLVD</b>	<b>1/4 - 1/2ENE</b>	<b>BR415</b>	<b>353</b>
<b>LOS FELIZ FORD INC.</b>	<b>1220 S BRAND BLVD</b>	<b>1/4 - 1/2ENE</b>	<b>BY448</b>	<b>385</b>
<b>PIONEER DIECASTERS INCORPORATE</b>	<b>4208 CHEVY CHASE DR.</b>	<b>1/4 - 1/2NNW</b>	<b>CB474</b>	<b>397</b>
<b>RAY'S RITE RATE LUNCH SVC.</b>	<b>4544 SAN FERNANDO RD</b>	<b>1/4 - 1/2NNW</b>	<b>CA501</b>	<b>412</b>
<b>FOREST LAWN MEMORIAL PARK, GLE</b>	<b>1712 S GLENDALE AVE</b>	<b>1/4 - 1/2ESE</b>	<b>CE512</b>	<b>418</b>
<b>GEORGES TEXACO</b>	<b>1327 S. GLENDALE AVE</b>	<b>1/4 - 1/2ENE</b>	<b>CG519</b>	<b>434</b>
<b>WIER CASADY COMPANY</b>	<b>1332 S GLENDALE AVE</b>	<b>1/4 - 1/2ENE</b>	<b>CG522</b>	<b>439</b>
<b>SUZUKI OF GLENDALE</b>	<b>1120 S BRAND BLVD</b>	<b>1/4 - 1/2NE</b>	<b>CH525</b>	<b>441</b>
<b>WAGONMEISTER II</b>	<b>1311 S GLENDALE AVE</b>	<b>1/4 - 1/2ENE</b>	<b>CG528</b>	<b>443</b>
<b>STAR GAS</b>	<b>1305 S GLENDALE AVE</b>	<b>1/4 - 1/2ENE</b>	<b>CK540</b>	<b>450</b>
<b>GLENDALE DODGE</b>	<b>1101 S BRAND BLVD</b>	<b>1/4 - 1/2ENE</b>	<b>CM548</b>	<b>459</b>
<b>GLENDALE DODGE</b>	<b>1101 S BRAND BLVD</b>	<b>1/4 - 1/2NE</b>	<b>CM549</b>	<b>461</b>
Lower Elevation	Address	Dist / Dir	Map ID	Page
<b>FRANCISCAN PROMENADE</b>	<b>2901 LOS FELIZ BLVD</b>	<b>0 - 1/8 SW</b>	<b>G36</b>	<b>42</b>
<b>GLENDALE TRANSFER &amp; STORAGE CO</b>	<b>1601 GARDENA AVE</b>	<b>1/8 - 1/4SSE</b>	<b>R123</b>	<b>121</b>
<b>LOS FELIZ CAR WASH</b>	<b>3013 LOS FELIZ BLVD</b>	<b>1/8 - 1/4WSW</b>	<b>AC219</b>	<b>198</b>
<b>SUPPOSE U DRIVE TRUCK RENTAL S</b>	<b>3809 SAN FERNANDO ROAD</b>	<b>1/4 - 1/2SE</b>	<b>AM248</b>	<b>212</b>
<b>SERVICE STATION 4252</b>	<b>3050 LOS FELIZ BLVD</b>	<b>1/4 - 1/2WSW</b>	<b>AO251</b>	<b>221</b>
<b>UNION OIL SERVICE STATION #425</b>	<b>3050 LOS FELIZ BLVD</b>	<b>1/4 - 1/2WSW</b>	<b>AO253</b>	<b>224</b>
<b>OCTO #7</b>	<b>3053 LOS FELIZ BLVD</b>	<b>1/4 - 1/2WSW</b>	<b>AO262</b>	<b>238</b>
<b>98823</b>	<b>3073 LOS FELIZ BLVD</b>	<b>1/4 - 1/2WSW</b>	<b>AV295</b>	<b>257</b>
<b>A.D. HOPPE CO</b>	<b>1749 GARDENA AVE</b>	<b>1/4 - 1/2SSE</b>	<b>BP431</b>	<b>366</b>
<b>ACME RENTS</b>	<b>1855 S. BRAND BL</b>	<b>1/4 - 1/2SSE</b>	<b>BX469</b>	<b>394</b>

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the AST list, as provided by EDR, and dated 05/01/2007 has revealed that there is 1 AST site within approximately 0.5 miles of the target property.

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
FOREST LAWN MEMORIAL-PARK, GLE	1712 S GLENDALE AVENUE	1/4 - 1/2ESE	CE514	426

**SWEEPS:** 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 1980'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 42 SWEEPS UST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
W & W MFG CO INC	426 W MAGNOLIA AVE	0 - 1/8 NNW	N93	96
ARCO #0051 (FORMER)	3941 SAN FERNANDO RD	0 - 1/8 E	O106	109
RICHARDSON EQUIPMENT RENTAL CA	4311 SAN FERNANDO RD	1/8 - 1/4N	X149	142
GLENDALE MEMORIAL HOSPITAL	1420 S CENTRAL AVE	1/8 - 1/4ENE	Y158	157
GLENDALE UNIFIED SCHOOL DIST	333 W MAGNOLIA AVE	1/8 - 1/4NE	AA182	169
MOBIL OIL CORP SS 11GD4 ROBERT	1324 S CENTRAL AVE	1/8 - 1/4ENE	AB185	173
RAYNE WATER CONDITIONING	418 W PALMER AVE	1/8 - 1/4N	AG214	196
GLENDALE BUILDERS SUPPLIES	4415 SAN FERNANDO RD	1/4 - 1/2N	AN259	230
MELCO WIRE PRODUCTS HENRY DAVI	4420 SAN FERNANDO RD	1/4 - 1/2N	AN278	248
SUN MACHINERY COMPANY	4304 ALGER ST	1/4 - 1/2NNW	AU298	261
GLENDALE FIRE STATION #22	1505 S BRAND BLVD	1/4 - 1/2E	AY313	278
STAR CHRYSLER JEEP	1401 S BRAND BLVD	1/4 - 1/2ENE	BB317	281
BRAND AUTO CENTER	1615 S BRAND BLVD	1/4 - 1/2ESE	AX320	284
LOS FILIZ FORD	1520 S BRAND BLVD	1/4 - 1/2E	AY327	288
ALLEN GWYNN CHEVROLET, INC	1400 S BRAND BLVD	1/4 - 1/2ENE	BB332	293
WIECHMANN CONCRETE INC	422 W CHEVY CHASE DR	1/4 - 1/2N	BG357	308
ROGER C WILSON LTD	400 W CHEVY CHASE DR	1/4 - 1/2N	BG365	312
SIERRA LEASING CO	1308 S BRAND BLVD	1/4 - 1/2ENE	BF382	322
CITY OF GLENDALE PUBLIC W YARD	541 W CHEVY CHASE DR	1/4 - 1/2NNW	BL389	331
MCBRIDE CHEMICAL	4215 WILLIMET AVE	1/4 - 1/2NNW	BM405	342
CITY OF GLENDALE SANITATION YD	548 W CHEVY CHASE DR	1/4 - 1/2NNW	BN407	348
MODERN MOTORS	1235 S BRAND AVE	1/4 - 1/2ENE	BT422	357
MORRISON AUTOMOTIVE GROUP, INC	1225 S BRAND BLVD	1/4 - 1/2ENE	BT433	369
GLENDALE SUBARU	1220 S BRAND BLVD	1/4 - 1/2ENE	BY447	385
RAY'S CATERING SERVICE	4544 SAN FERNANDO RD	1/4 - 1/2NNW	CA502	413
FOREST LAWN MEMORIAL	1712 GLENDALE AVE	1/4 - 1/2ESE	CE511	417
FOREST LAWN COMPANY	1712 S GLENDALE AVE	1/4 - 1/2ENE	CE513	422
TEXACO REFINING & MARKET, INC.	1327 S GLENDALE AVE	1/4 - 1/2ENE	CG518	431
STAR GAS	1305 S GLENDALE AVE	1/4 - 1/2ENE	CK540	450
JAY'S AUTO REPAIR IGNAC ROSCUJ	1300 S GLENDALE AVE.	1/4 - 1/2ENE	CK544	454
JACK ELLIS GLENDALE DODGE	1101 S BRAND BLVD	1/4 - 1/2NE	CM547	456

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
FRANCISCAN PROMENADE	2901 LOS FELIZ BLVD	0 - 1/8 SW	G36	42
GLENDALE TRANSFER & STORAGE	1601 GARDENA AVE	1/8 - 1/4SSE	R124	122
KAROL'S GENERAL GARAGE	1821 S CENTRAL AVE	1/8 - 1/4SE	S127	134
LOS FELIZ CAR WASH	3013 LOS FELIZ BLVD	1/8 - 1/4WSW	AC220	200
SUPPOSE U DRIVE TRUCK RENTAL S	3809 SAN FERNANDO ROAD	1/4 - 1/2SE	AM248	212
SERVICE STATION 4252	3058 LOS FELIZ BLVD	1/4 - 1/2WSW	AO251	221
SHELL OIL COMPANY	3053 LOS FELIZ BLVD	1/4 - 1/2WSW	AO255	240
SEGES AUTOMOTIVE INC	3073 LOS FELIZ BLVD	1/4 - 1/2WSW	AV297	259
UNK	4200 VERDANT ST	1/4 - 1/2NW	BA335	299

## EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
A.D. HOPPE CO ACME RENTAL INC.	1749 GARDENA AVE 1855 S BRAND BLVD	1/4 - 1/2SSE 1/4 - 1/2SE	BP431 CC477	365 401

**CHMIRS:** The California Hazardous Material Incident Report System contains information on reported hazardous material incidents, i.e., accidental releases or spills. The source is the California Office of Emergency Services.

A review of the CHMIRS list, as provided by EDR, and dated 12/31/2005 has revealed that there are 2 CHMIRS sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
Not reported	412 WEST CYPRESS	0 - 1/8 NNE	M84	92
Not reported	1324 S. CENTRAL AVENUE	1/8 - 1/4ENE	AB189	183

**NOTIFY 65:** 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 come from the State Water Resources Control Board's Proposition 65 database.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there is 1 Notify 65 site within approximately 1.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
ORKIN	1250 S. GLENDALE AVE.	1/2 - 1 ENE	CO561	470

**DEED:** The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes.

A review of the DEED list, as provided by EDR, and dated 07/02/2007 has revealed that there is 1 DEED site within approximately 0.75 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
FRANCISCAN CERAMICS, INC.	2901 LOS FELIZ BOULEVARD	0 - 1/8 SW	G40	59

**DRYCLEANERS:** A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial laundries; laundry and garment services.

A review of the CLEANERS list, as provided by EDR, and dated 07/31/2007 has revealed that there are 6 CLEANERS sites within approximately 0.75 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
CENTRAL CLEANERS	1100 SO CENTRAL AVE #C	1/4 - 1/2NNE	BQ424	358
CENTRAL CLEANERS	1100 C S CENTRAL AVE	1/4 - 1/2NNE	BQ425	359
SHEAS CLEANERS	1242 S GLENDALE AVE	1/2 - 1 ENE	CO562	476
WINDSOR CLEANERS	730 S CENTRAL AVE #114	1/2 - 1 NNE	582	488

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
KIMBALL CLEANERS	1630 S CENTRAL AVE	1/8 - 1/4SE	P112	114



## EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>1 A FORMAL WEAR</b>	<b>3206 LOS FELIZ BLVD</b>	<b>1/4 - 1/2WSW CF516</b>		<b>426</b>

WIP: Well Investigation Program case in the San Gabriel and San Fernando Valley area.

A review of the WIP list, as provided by EDR, and dated 03/01/2007 has revealed that there are 279 WIP sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>MECHANICAL ENG. CO.</b> Facility Status: Historical	<b>433 FERNANDO CT</b>	<b>0 - 1/8</b>	<b>C5</b>	<b>25</b>
<b>FLOOR MART</b> Facility Status: Historical	<b>437 FERNANDO CT</b>	<b>0 - 1/8</b>	<b>C7</b>	<b>27</b>
<b>MECHANICAL CONCEPTS INC</b> Facility Status: Historical	<b>429 FERNANDO CT</b>	<b>0 - 1/8 ENE</b>	<b>C13</b>	<b>29</b>
<b>MAGNET COMPANY</b> Facility Status: Historical	<b>425 FERNANDO CT</b>	<b>0 - 1/8 ENE</b>	<b>C15</b>	<b>32</b>
<b>NOVA AUTOMOTIVE</b> Facility Status: Historical Facility Status: Historical	<b>421 FERNANDO CT</b>	<b>0 - 1/8 ENE</b>	<b>C16</b>	<b>32</b>
<b>STARGATE FILM</b> Facility Status: Historical	<b>1421 RAILROAD</b>	<b>0 - 1/8 SSE</b>	<b>D18</b>	<b>33</b>
<b>GUARDIAN X RAY SERVICES</b> Facility Status: Backlog	<b>1422 GARDENA AVE</b>	<b>0 - 1/8 SE</b>	<b>D23</b>	<b>38</b>
<b>BECK QUALITY SERVICES</b> Facility Status: Historical	<b>1425 GARDENA</b>	<b>0 - 1/8 SE</b>	<b>D24</b>	<b>39</b>
<b>HAKRA INC.</b> Facility Status: Historical	<b>1425 GARDENA</b>	<b>0 - 1/8 SE</b>	<b>D25</b>	<b>39</b>
<b>ROBERT MILLARD</b> Facility Status: Historical	<b>1435 GARDENA</b>	<b>0 - 1/8 SE</b>	<b>D26</b>	<b>39</b>
<b>DOUG PARKER STUDIO</b> Facility Status: Historical	<b>1435 GARDENA</b>	<b>0 - 1/8 SE</b>	<b>D27</b>	<b>40</b>
<b>A.M.P.</b> Facility Status: Historical	<b>1441 GARDENA</b>	<b>0 - 1/8 SE</b>	<b>D28</b>	<b>40</b>
<b>SNIDER &amp; SNIDER</b> Facility Status: Historical	<b>1441 GARDENA AVE</b>	<b>0 - 1/8 SE</b>	<b>D29</b>	<b>40</b>
<b>LIGHTING SUPPLIES</b> Facility Status: Historical	<b>1441 GARDENA</b>	<b>0 - 1/8 SE</b>	<b>D30</b>	<b>40</b>
<b>GREG BIAN</b> Facility Status: Historical	<b>1441 GARDENA</b>	<b>0 - 1/8 SE</b>	<b>D31</b>	<b>41</b>
<b>NADIA COSMETICS, INC.</b> Facility Status: Historical	<b>440 W CYPRESS ST</b>	<b>0 - 1/8 N</b>	<b>H41</b>	<b>66</b>
<b>HUGH DEAN &amp; CO., INC.</b> Facility Status: Historical	<b>438 W CYPRESS ST</b>	<b>0 - 1/8 N</b>	<b>H43</b>	<b>67</b>
<b>VEGE-KURL</b> Facility Status: Historical	<b>430 W CYPRESS ST</b>	<b>0 - 1/8 N</b>	<b>H45</b>	<b>67</b>
<b>UNGER FABRIK INC</b> Facility Status: Historical	<b>425 W CYPRESS ST</b>	<b>0 - 1/8 N</b>	<b>H51</b>	<b>71</b>

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>ALGER LIGHTING INC.</b> Facility Status: Historical	<b>4105 SAN FERNANDO RD</b>	<b>0 - 1/8 ENE</b>	<b>J55</b>	<b>73</b>
<b>S J AUTO SUPPLY</b> Facility Status: Historical	<b>4101 SAN FERNANDO RD</b>	<b>0 - 1/8 ENE</b>	<b>J56</b>	<b>73</b>
<b>LIGHTING SPECIALTIES INC.</b> Facility Status: Historical	<b>4103 SAN FERNANDO RD</b>	<b>0 - 1/8 ENE</b>	<b>J58</b>	<b>75</b>
<b>VEGE KURL</b> Facility Status: Backlog	<b>4115 SAN FERNANDO RD</b>	<b>0 - 1/8 NE</b>	<b>J59</b>	<b>75</b>
<b>GLENDALE PROSTHETICS</b> Facility Status: Historical	<b>1500 GARDENA</b>	<b>0 - 1/8 SE</b>	<b>K60</b>	<b>76</b>
<b>FIRE EXTINGUISHERS</b> Facility Status: Historical	<b>4119 SAN FERNANDO RD</b>	<b>0 - 1/8 NE</b>	<b>J61</b>	<b>76</b>
<b>SCREEN MOBIL</b> Facility Status: Historical	<b>1502 GARDENA</b>	<b>0 - 1/8 SE</b>	<b>K63</b>	<b>77</b>
<b>JOHN T. BILL &amp; CO, INC.</b> Facility Status: Historical	<b>4116 SAN FERNANDO RD</b>	<b>0 - 1/8 NE</b>	<b>J65</b>	<b>77</b>
<b>KENCO CONSTRUCTION, INC.</b> Facility Status: Historical	<b>1505 GARDENA AVENUE</b>	<b>0 - 1/8 SE</b>	<b>K66</b>	<b>78</b>
<b>NEWS TYPE SVC INC</b> Facility Status: Historical	<b>1508 GARDENA AVE</b>	<b>0 - 1/8 SE</b>	<b>K67</b>	<b>78</b>
<b>PALACE INTERNATIONAL FURNITURE</b> Facility Status: Historical	<b>4013 SAN FERNANDO RD</b>	<b>0 - 1/8 ENE</b>	<b>L69</b>	<b>82</b>
<b>DOMANI SELECT FURNITURE</b> Facility Status: Historical	<b>4019 SAN FERNANDO RD</b>	<b>0 - 1/8 ENE</b>	<b>L70</b>	<b>82</b>
<b>J&amp;D FOREIGN AUTO SVC</b> Facility Status: Historical	<b>4011 SAN FERNANDO RD</b>	<b>0 - 1/8 ENE</b>	<b>L73</b>	<b>84</b>
<b>RUIZ INDUSTRIES</b> Facility Status: Historical	<b>1513 GARDENA</b>	<b>0 - 1/8 SE</b>	<b>K79</b>	<b>88</b>
<b>AMBRIT INDUSTRIES</b> Facility Status: Historical	<b>1288 LOS ANGELES ST</b>	<b>0 - 1/8 NNW</b>	<b>I80</b>	<b>88</b>
<b>PACIFIC STATES PLASTICS</b> Facility Status: Historical	<b>1291 LOS ANGELES ST</b>	<b>0 - 1/8 NNW</b>	<b>I81</b>	<b>90</b>
<b>VEGE-KURL</b> Facility Status: Historical	<b>412 W CYPRESS ST</b>	<b>0 - 1/8 NNE</b>	<b>M83</b>	<b>92</b>
<b>CD GRILL AUTO</b> Facility Status: Historical	<b>4200 SAN FERNANDO RD</b>	<b>0 - 1/8 NNE</b>	<b>M86</b>	<b>94</b>
<b>MIKRON PRODUCTS</b> Facility Status: Historical	<b>4205 SAN FERNANDO RD</b>	<b>0 - 1/8 NNE</b>	<b>M87</b>	<b>94</b>
<b>BELLEVE FURNITURE</b> Facility Status: Historical	<b>4210 SAN FERNANDO RD</b>	<b>0 - 1/8 NNE</b>	<b>M88</b>	<b>94</b>
<b>AMBRIT INDUSTRIES</b> Facility Status: Historical	<b>1278 LOS ANGELES ST</b>	<b>0 - 1/8 NNW</b>	<b>I89</b>	<b>95</b>
<b>RAINBOW OPTICS</b> Facility Status: Historical	<b>4212 SAN FERNANDO DR</b>	<b>0 - 1/8 NNE</b>	<b>M91</b>	<b>96</b>
<b>OCCUPANT</b> Facility Status: Historical	<b>4218 SAN FERNANDO RD</b>	<b>0 - 1/8 NNE</b>	<b>M92</b>	<b>96</b>

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>W &amp; W MFG CO INC</b> Facility Status: Historical	425 W MAGNOLIA AVE	0 - 1/8 NNW N93		96
JOAR LAB Facility Status: Historical	4218 SAN FERNANDO RD	0 - 1/8 NNE M94		97
MARTIKS METRIK MOTORS Facility Status: Historical	4221 SAN FERNANDO RD	0 - 1/8 NNE M96		98
CALIFORNIA CAR WASH Facility Status: Historical	3840 SAN FERNANDO RD	0 - 1/8 E O97		98
ACE STATIONARY & PRINTING Facility Status: Historical	4225 SAN FERNANDO RD	0 - 1/8 NNE M100		104
<b>ARCO #0051 (FORMER)</b> Facility Status: Historical Facility Status: Backlog	3941 SAN FERNANDO RD	0 - 1/8 E Q106		109
A.G.M. AUTO Facility Status: Historical	3924 SAN FERNANDO RD	1/8 - 1/4 E Q110		114
A. A. BAKERS HARDWARE Facility Status: Historical	3925 SAN FERNANDO RD	1/8 - 1/4 ESE Q111		114
GLENDALE REPROGRAPHICS Facility Status: Historical	3911 SAN FERNANDO RD	1/8 - 1/4 ESE Q126		124
S & S PLUMBING Facility Status: Historical	343 CYPRESS	1/8 - 1/4 NE T129		125
RV REFRIGERATION Facility Status: Historical	343 CYPRESS	1/8 - 1/4 NE T130		125
<b>TRIANGLE RESTURANTS INC/L&amp;R CO</b> Facility Status: Historical	3900 SAN FERNANDO RD	1/8 - 1/4 ESE Q131		125
SIR SPEEDY PRINT & COPY Facility Status: Historical	3907 SAN FERNANDO RD	1/8 - 1/4 ESE Q132		126
WAREHOUSE Facility Status: Historical	336 W CYPRESS ST	1/8 - 1/4 NE T134		127
<b>SERJ MOTORS AUTO BODY SHOP</b> Facility Status: Historical	1252 LOS ANGELES ST	1/8 - 1/4 NNW V136		127
RENTALS AO RICHARDSON Facility Status: Historical	4311 SAN FERNANDO RD	1/8 - 1/4 N X147		142
A.O. RICHARDSON RENTALS Facility Status: Historical	427 W PALMER AVE	1/8 - 1/4 N X148		142
CASA FURNITURE Facility Status: Historical	3901 SAN FERNANDO RD	1/8 - 1/4 ESE 151		146
A.O. RICHARDSON RENTALS Facility Status: Historical	4311 SAN FERNANDO RD	1/8 - 1/4 N X155		149
<b>CENTRAL AUTO REPAIR</b> Facility Status: Historical	1429 S CENTRAL AVE	1/8 - 1/4 ENE Y158		150
CENTRAL TIRE, INC. Facility Status: Historical	1423 S CENTRAL AVE	1/8 - 1/4 ENE Y160		151
CENTRAL TIRE NEW & USED Facility Status: Historical	1423 S CENTRAL AVE	1/8 - 1/4 ENE Y161		151
<b>GLENDALE MEMORIAL HOSPITAL &amp; H</b> Facility Status: Historical	1420 S CENTRAL AVE	1/8 - 1/4 ENE Y164		153

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>GLENDALE MEMORIAL HOSPITAL</b> Facility Status: Historical	1420 S CENTRAL AVE	1/8 - 1/4 ENE Y168		157
CENTRAL TIRE INC. Facility Status: Historical	1415 S CENTRAL AVE	1/8 - 1/4 ENE Y171		163
GLENDALE MEMORIAL HOSP. Facility Status: Historical	1400 S CENTRAL AVE	1/8 - 1/4 ENE Y174		164
AUTO BODY II Facility Status: Historical	4310 SAN FERNANDO RD	1/8 - 1/4 N X179		167
<b>GLENDALE UNIFIED SCHOOL DIST</b> Facility Status: Historical	333 W MAGNOLIA AVE	1/8 - 1/4 NE AA182		169
BARTENDER TRAINING INSTITUTE Facility Status: Historical	3843 SAN FERNANDO RD	1/8 - 1/4 ESE AD195		186
<b>MODERN AUTO BODY</b> Facility Status: Historical	3835 SAN FERNANDO RD	1/8 - 1/4 ESE AD198		187
STUDIO FRAME SHOP Facility Status: Historical	3827 SAN FERNANDO RD	1/8 - 1/4 ESE AD204		190
A.O. RICHARDSON RENTALS Facility Status: Historical	435 W PALMER AVE	1/8 - 1/4 NNW AG207		193
IMAN CABINETS INC. Facility Status: Historical	437 W PALMER AVE	1/8 - 1/4 NNW AG208		193
B. C. RADIATOR Facility Status: Historical	422 W PALMER AVE	1/8 - 1/4 NNW AG209		193
A-1 RAIN GUTTERS Facility Status: Historical	421 W PALMER AVE	1/8 - 1/4 NNW AG211		196
NATIONAL BOOKBINDING Facility Status: Historical	419 W PALMER AVE	1/8 - 1/4 N AG213		196
<b>RAYNE WATER CONDITIONING</b> Facility Status: Historical	418 W PALMER AVE	1/8 - 1/4 N AG214		196
LOUIES KLEEN THRU COMPANY Facility Status: Historical Facility Status: Historical	414 W PALMER AVE	1/8 - 1/4 N AG216		197
OCCUPANT Facility Status: Historical	415 W PALMER	1/8 - 1/4 N AG217		198
DM&H CABINET MASTERS Facility Status: Historical	413 W PALMER AVE	1/8 - 1/4 N AG218		198
CHRIS AIR GROUP CORP. Facility Status: Historical	4401 SAN FERNANDO RD	1/8 - 1/4 N AJ222		201
<b>TAJIMA CORP USA</b> Facility Status: Historical	4334 SAN FERNANDO RD	1/8 - 1/4 N AJ231		206
STUTZ/DAVIS Facility Status: Historical	1219 LOS ANGELES ST	1/8 - 1/4 NNW AK234		208
TILE & MARBLE WAREHOUSE Facility Status: Historical	1264 S CENTRAL AVE	1/8 - 1/4 NE AL236		208
D'ANGELO & SON Facility Status: Historical	1260 S CENTRAL AVE	1/8 - 1/4 NE AL240		209
RICKS AUTO & BODY Facility Status: Historical	1256 S CENTRAL AVE	1/8 - 1/4 NE AL243		211

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>KALPAK</b> Facility Status: Historical	373 W PALMER AVE	1/4 - 1/2N	245	211
<b>BACON BROTHERS</b> Facility Status: Historical	4407 SAN FERNANDO RD	1/4 - 1/2N	AN246	211
<b>CATALINA COMPUTERS</b> Facility Status: Historical	4400 SAN FERNANDO RD	1/4 - 1/2N	AN247	212
<b>QUALITY BODY WORKS</b> Facility Status: Historical	4411 SAN FERNANDO RD	1/4 - 1/2N	AN249	218
<b>ARSEN DJOUGONRAIN</b> Facility Status: Backlog	1238 S CENTRAL	1/4 - 1/2NE	AP256	225
<b>GLENDALE BUILDERS SUPPLY</b> Facility Status: Historical	4415 SAN FERNANDO RD	1/4 - 1/2N	AN260	232
<b>ADAMS RITE SABRE INTERNATIONAL</b> Facility Status: Historical	4423 SAN FERNANDO RD	1/4 - 1/2N	AN268	245
<b>QUALITY BODYWORKS</b> Facility Status: Historical	4423 SAN FERNANDO RD	1/4 - 1/2N	AN269	245
<b>CLEAN SWEEP SUPPLY</b> Facility Status: Historical	4427 SAN FERNANDO RD	1/4 - 1/2N	AN277	248
<b>MELCO WIRE PRODUCTS HENRY DAVI</b> Facility Status: Historical Facility Status: Historical	4420 SAN FERNANDO RD	1/4 - 1/2N	AN278	248
<b>MELCO WIRE PRODUCTS CO.</b> Facility Status: Historical	4420 SAN FERNANDO RD	1/4 - 1/2N	AN279	251
<b>PRINTED CIRCUIT TECHNOLOGY</b> Facility Status: Historical	4422 SAN FERNANDO RD	1/4 - 1/2N	AN282	251
<b>TROPICO CONVELESCENT HOSPITAL</b> Facility Status: Historical	130 LOS FELIZ RD	1/4 - 1/2ENE	AS283	252
<b>MELVIN DAVID</b> Facility Status: Historical	4424 SAN FERNANDO RD	1/4 - 1/2N	AN284	252
<b>ADAMS RITE SABRE INTERNATIONAL</b> Facility Status: Historical	4433 SAN FERNANDO RD	1/4 - 1/2N	AN287	254
<b>CLEAN SWEEP SUPPLY</b> Facility Status: Historical	4435 SAN FERNANDO RD	1/4 - 1/2N	AT288	255
<b>ENGINEERING DEPT.</b> Facility Status: Historical	4437 SAN FERNANDO RD	1/4 - 1/2N	AT290	255
<b>VACANT LOT</b> Facility Status: Historical	4300 ALGER ST	1/4 - 1/2NNW	AU294	255
<b>SUN MACHINERY COMPANY</b> Facility Status: Historical	4304 ALGER ST	1/4 - 1/2NNW	AU298	261
<b>TRANSMISSION SHOP THE</b> Facility Status: Historical	4449 SAN FERNANDO RD	1/4 - 1/2N	AT300	262
<b>EARL SCHEIB OF CALIFORNIA INC</b> Facility Status: Historical	4451 SAN FERNANDO RD	1/4 - 1/2N	AT301	264
<b>KB/JIAN CO</b> Facility Status: Historical	4310 ALGER ST	1/4 - 1/2NNW	AU304	271
<b>HARRINGTON TOOLS INC</b> Facility Status: Historical	4316 ALGER ST	1/4 - 1/2NNW	AU306	274

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>GLENDALE MEDICAL CLINIC</b> Facility Status: Historical	1200 S CENTRAL AVE	1/4 - 1/2NE	AW308	275
<b>BLACK DONUTS INC</b> Facility Status: Historical	1201 S CENTRAL AVE	1/4 - 1/2NE	AW309	275
<b>GATEWAY APARTMENTS</b> Facility Status: Historical	114 W EULALIA ST	1/4 - 1/2ESE	AX310	277
<b>AMERICAN RED CROSS</b> Facility Status: Historical	1501 S BRAND BLVD	1/4 - 1/2E	AY311	277
<b>WANG'S IMPORTS</b> Facility Status: Historical	106 EULALIA	1/4 - 1/2ESE	AX316	281
<b>STAR CHRYSLER JEEP</b> Facility Status: Historical	1401 S BRAND BLVD	1/4 - 1/2ENE	BB317	281
<b>WANGS IMPORTS</b> Facility Status: Historical	1601 S BRAND BLVD	1/4 - 1/2ESE	AX318	283
<b>BRAND AUTO CENTER</b> Facility Status: Historical	1615 S BRAND BLVD	1/4 - 1/2ESE	AX320	284
<b>LOS FILIZ FORD</b> Facility Status: Historical	1520 S BRAND BLVD	1/4 - 1/2E	AY327	288
<b>ANGELS EXPRESS AUTO SERVICE</b> Facility Status: Historical	1717 S BRAND BLVD UNIT	1/4 - 1/2ESE	BC329	291
<b>ALLEN GWYNN CHEVROLET, INC</b> Facility Status: Historical	1400 S BRAND BLVD	1/4 - 1/2ENE	BB332	293
<b>ALLEN GWYNN CHEVROLET'S ANNEX</b> Facility Status: Historical	1600 S BRAND BLVD	1/4 - 1/2ESE	AX341	303
<b>ARK</b> Facility Status: Historical	1612 S BRAND BLVD	1/4 - 1/2ESE	AX347	305
<b>JEFFS AUTO SALES</b> Facility Status: Historical	1620 S BRAND BLVD	1/4 - 1/2ESE	AX354	307
<b>BEST BRAND TIRE &amp; AUTO-CENTER</b> Facility Status: Historical	1620 S BRAND BLVD	1/4 - 1/2ESE	AX355	307
<b>WIECHMANN CONCRETE INC</b> Facility Status: Historical	422 W CHEVY CHASE DR	1/4 - 1/2N	BG357	308
<b>HYDRAULIC IND. PLUMBING</b> Facility Status: Historical	427 W CHEVY CHASE	1/4 - 1/2N	BG358	310
<b>FURNITURE PLUS</b> Facility Status: Historical	407 W CHEVY CHASE	1/4 - 1/2N	BG361	311
<b>RV PERFORMANCE CONNECTION</b> Facility Status: Historical	404 W CHEVY CHASE DR	1/4 - 1/2N	BG363	312
<b>H.A.H. EMBROIDERY &amp; SEWING</b> Facility Status: Historical	402 W CHEVY CHASE DR	1/4 - 1/2N	BG364	312
<b>TECH SYSTEMS INC.</b> Facility Status: Historical	400 W CHEVY CHASE DR	1/4 - 1/2N	BG366	313
<b>E.M.A. CLOTHING MANUFACTURERS</b> Facility Status: Historical	400 W CHEVY CHASE DR	1/4 - 1/2N	BG367	313
<b>U-HAUL CENTER OF GLENDALE</b> Facility Status: Historical	1313 S BRAND BLVD	1/4 - 1/2ENE	BF368	313

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>GABIES AUTO ELECTRIC</b> Facility Status: Historical	4501 SAN FERNANDO RD	1/4 - 1/2NNW	BI371	316
<b>JOHNNY LAILS TOYOTA (USED)</b> Facility Status: Historical	1301 S BRAND BLVD	1/4 - 1/2ENE	BF372	316
<b>SPENCER WHEEL ALIGNMENT</b> Facility Status: Historical	1133 S CENTRAL AVE	1/4 - 1/2NNE	BJ374	316
<b>GLENDALE SPEED CENTER INC.</b> Facility Status: Historical	1320 S BRAND BLVD	1/4 - 1/2ENE	BF378	319
<b>SCHER TIRE INC</b> Facility Status: Historical	1130 S CENTRAL AVE	1/4 - 1/2NNE	BJ379	320
<b>A &amp; H VCR TV STERO REPAIR</b> Facility Status: Historical	4502 SAN FERNANDO RD	1/4 - 1/2NNW	BI380	321
<b>SIERRA LEASING CO</b> Facility Status: Historical	1308 S BRAND BLVD	1/4 - 1/2ENE	BF382	322
<b>GLENDALE AUTO BODY</b> Facility Status: Historical	511 W CHEVYCHASE	1/4 - 1/2NNW	BI384	324
<b>STEVE'S MUFFLER</b> Facility Status: Historical	1717 S BRAND BLVD	1/4 - 1/2ESE	BK385	326
<b>NISSAN/TOYOTA SERVICE CENTER</b> Facility Status: Historical	1717 S BRAND BLVD	1/4 - 1/2ESE	BK386	326
<b>BLIND-MAN'S BUFF</b> Facility Status: Historical	1717 S BRAND BLVD	1/4 - 1/2ESE	BK387	326
<b>RICHARDSON EQUIP RENTAL</b> Facility Status: Historical	526 W CHEVY CHASE DR	1/4 - 1/2NNW	BL388	327
<b>CAR MATE AUTO BOUTIQUE</b> Facility Status: Historical	1125 S CENTRAL AVE	1/4 - 1/2NNE	BJ389	327
<b>GLENDALE RANCH MARKET</b> Facility Status: Historical	1122 S CENTRAL AVE	1/4 - 1/2NNE	BJ391	328
<b>CITY MEDICAL CLINIC</b> Facility Status: Historical	1123 S CENTRAL AVE	1/4 - 1/2NNE	BJ392	329
<b>ADAMS RITE SABRE INTERNATIONAL</b> Facility Status: Backlog	540 W CHEVY CHASE DR.	1/4 - 1/2NNW	BL395	329
<b>CITY OF GLENDALE PUBLIC W YARD</b> Facility Status: Historical Facility Status: Backlog	541 W CHEVY CHASE DR	1/4 - 1/2NNW	BL399	331
<b>FANCY SEWING CENTER</b> Facility Status: Historical	4506 SAN FERNANDO RD	1/4 - 1/2NNW	BI403	341
<b>MCBRIDE CHEMICAL</b> Facility Status: Historical	4215 WILLIMET AVE	1/4 - 1/2NNW	BM405	342
<b>CITY OF GLENDALE SANITATION YD</b> Facility Status: Historical	548 W CHEVY CHASE DR	1/4 - 1/2NNW	BN407	348
<b>PACIFIC RIM NETWORK</b> Facility Status: Historical	1110 S CENTRAL AVE	1/4 - 1/2NNE	BQ413	352
<b>DIAGNOSTIC LAB.</b> Facility Status: Historical	1111 S CENTRAL AVE	1/4 - 1/2NNE	BQ414	353
<b>TRIPLE CHECK</b> Facility Status: Historical	1105 S CENTRAL AVE	1/4 - 1/2NNE	BQ420	357

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>CENTRAL CLEANERS</b> Facility Status: Historical	1100 C S CENTRAL AVE	1/4 - 1/2NNE	BQ425	359
<b>MORRISON AUTOMOTIVE GROUP INC.</b> Facility Status: Historical	1231 S BRAND BLVD	1/4 - 1/2ENE	BT427	362
<b>MIKELOFF BROS BODY SHOP</b> Facility Status: Historical	4514 SAN FERNANDO RD	1/4 - 1/2NNW	BU428	362
<b>1-DAY PAINT &amp; BODY CENTERS, IN</b> Facility Status: Historical	4515 SAN FERNANDO RD	1/4 - 1/2NNW	BU438	373
<b>LOS FELIZ FORD INC.</b> Facility Status: Historical	1220 S BRAND BLVD	1/4 - 1/2ENE	BY448	385
<b>B &amp; W PRECISION INC</b> Facility Status: Historical	430 W ACACIA	1/4 - 1/2N	BZ450	386
<b>ALKO WHOLESALE AUTO PARTS</b> Facility Status: Historical	439 W ACACIA AVE	1/4 - 1/2N	BZ452	389
<b>CALIFORNIA FAST FOOD SERVICES</b> Facility Status: Historical	441 W ACACIA AVE	1/4 - 1/2N	BZ453	389
<b>CHASE STATIONERS &amp; PRINTERS</b> Facility Status: Historical	1210 S BRAND BLVD	1/4 - 1/2ENE	BY455	389
<b>US METRIC</b> Facility Status: Historical	4526 SAN FERNANDO RD	1/4 - 1/2NNW	CA457	390
<b>KERN WOOD BEAM</b> Facility Status: Historical	4528 SAN FERNANDO RD	1/4 - 1/2NNW	CA459	392
<b>OPTIONS AUTO SALON</b> Facility Status: Historical	4523 SAN FERNANDO RD	1/4 - 1/2NNW	CA460	392
<b>IRON INC.</b> Facility Status: Historical	4523 SAN FERNANDO RD	1/4 - 1/2NNW	CA461	392
<b>PACIFIC COAST DRAPERY</b> Facility Status: Historical	4523 SAN FERNANDO RD	1/4 - 1/2NNW	CA462	393
<b>ALEMA INC.</b> Facility Status: Historical	4523 SAN FERNANDO RD	1/4 - 1/2NNW	CA463	393
<b>PALACE PARTY RENTALS</b> Facility Status: Historical	4523 SAN FERNANDO RD	1/4 - 1/2NNW	CA464	393
<b>FRANK'S AUTO UPHOLSTERY</b> Facility Status: Historical	4523 SAN FERNANDO RD	1/4 - 1/2NNW	CA465	393
<b>H &amp; A IRON WORK</b> Facility Status: Historical	4523 SAN FERNANDO RD	1/4 - 1/2NNW	CA466	394
<b>INTERIORS BY MARY ANN</b> Facility Status: Historical	4523 SAN FERNANDO RD	1/4 - 1/2NNW	CA467	394
<b>UNITED SHEET METAL</b> Facility Status: Historical	4523 SAN FERNANDO RD	1/4 - 1/2NNW	CA468	394
<b>SCHROEDER</b> Facility Status: Historical	4530 SAN FERNANDO RD	1/4 - 1/2NNW	CA470	396
<b>A &amp; A SEWING MACHINE CO.</b> Facility Status: Historical	4525 SAN FERNANDO RD	1/4 - 1/2NNW	CA471	396
<b>3D IMAGE TEK</b> Facility Status: Historical	4525 SAN FERNANDO RD	1/4 - 1/2NNW	CA472	397

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
JIM'S OFFICE SUPPLY & PRINTING Facility Status: Historical	4525 SAN FERNANDO RD	1/4 - 1/2 NNW	CA473	397
PIONEER DIECASTERS INCORPORATE Facility Status: Historical	4209 CHEVY CHASE DR.	1/4 - 1/2 NNW	CB474	397
LIMERON AUTO SUPPLY Facility Status: Historical	4563 SAN FERNANDO RD	1/4 - 1/2 NNW	CA475	401
LIMERON AUTO PARTS Facility Status: Historical	4563 SAN FERNANDO RD	1/4 - 1/2 NNW	CA476	401
EDNAL EMBOSSING Facility Status: Historical	4527 SAN FERNANDO RD	1/4 - 1/2 NNW	CA479	404
AR-CAL-DRYWALL INC. Facility Status: Historical	4527 SAN FERNANDO RD	1/4 - 1/2 NNW	CA480	405
AUTO STORAGE Facility Status: Historical	4527 SAN FERNANDO RD	1/4 - 1/2 NNW	CA481	405
UNITED ORNAMENTAL IRON WORK Facility Status: Historical	4527 SAN FERNANDO RD	1/4 - 1/2 NNW	CA482	405
EDNAL EMBOSSING AND FOIL STAMP Facility Status: Historical	4527 SAN FERNANDO RD	1/4 - 1/2 NNW	CA483	405
HYDROMEK Facility Status: Historical	4527 SAN FERNANDO RD	1/4 - 1/2 NNW	CA484	406
PRIMO GRAPHICS Facility Status: Historical	4527 SAN FERNANDO RD	1/4 - 1/2 NNW	CA485	406
JFB MACHINE CO. Facility Status: Historical	4529 SAN FERNANDO RD	1/4 - 1/2 NNW	CA487	407
COLD METAL GRAPHICS Facility Status: Historical	4529 SAN FERNANDO RD	1/4 - 1/2 NNW	CA488	407
LEAGUE UN-LTD Facility Status: Historical	4529 SAN FERNANDO RD	1/4 - 1/2 NNW	CA489	407
NEW ERA GRAPHICS Facility Status: Historical	4529 SAN FERNANDO RD	1/4 - 1/2 NNW	CA490	408
HOOVER SUPPLY & KING CO. Facility Status: Historical	4529 SAN FERNANDO RD	1/4 - 1/2 NNW	CA491	408
A-1 PRODUCTS Facility Status: Historical	4529 SAN FERNANDO RD	1/4 - 1/2 NNW	CA492	408
S & Z MACHINE Facility Status: Historical	4529 SAN FERNANDO RD	1/4 - 1/2 NNW	CA493	408
LA COUNTY FIRE PROTECTION Facility Status: Historical	4529 SAN FERNANDO RD	1/4 - 1/2 NNW	CA494	409
HYDROMEK INC. Facility Status: Historical	4529 SAN FERNANDO RD	1/4 - 1/2 NNW	CA495	409
PF ENGINEERING Facility Status: Historical	4529 SAN FERNANDO RD	1/4 - 1/2 NNW	CA496	409
DRAPERY MAINTENANCE Facility Status: Historical	4529 SAN FERNANDO RD	1/4 - 1/2 NNW	CA497	409
RAY'S RITE RATE LUNCH SVC. Facility Status: Historical	4544 SAN FERNANDO RD	1/4 - 1/2 NNW	CA501	412

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
SUZUKI OF GLENDALE Facility Status: Historical	1120 S BRAND BLVD	1/4 - 1/2 NE	CH525	441
GLENDALE GERMAN AUTO Facility Status: Historical	1311 S GLENDALE AVE	1/4 - 1/2 ENE	CG529	443
ARTINS Facility Status: Historical	445 W GARFIELD	1/4 - 1/2 N	CJ532	445
AIR DUCT CLEANING CO. Facility Status: Historical	445 W GARFIELD	1/4 - 1/2 N	CJ533	445
TECNO FIRE PROTECTION Facility Status: Historical	445 W GARFIELD	1/4 - 1/2 N	CJ534	446
TINTINO Facility Status: Historical	445 W GARFIELD	1/4 - 1/2 N	CJ535	446
BANDEL MFG CO. Facility Status: Historical	4463 ALGER ST	1/4 - 1/2 NNW	CL541	452
KINGS TRANSMISSION Facility Status: Historical	4600 SAN FERNANDO RD	1/4 - 1/2 NNW	546	454
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
MASON ELECTRIC COMPANY Facility Status: Active	440 LOS FELIZ RD	0 - 1/8 SSE	B12	29
WESTWAY ELECTRIC Facility Status: Historical	1501 RAILROAD	0 - 1/8 SSE	F33	41
KENCO CONSTRUCTION Facility Status: Historical	1504 RAILROAD	0 - 1/8 SSE	F34	41
ECHO SOUND Facility Status: Historical	2900 LOS FELIZ BLVD	0 - 1/8 SW	G38	58
ERNST HOTZ CO. Facility Status: Historical	1516 RAILROAD	0 - 1/8 SSE	F44	67
PRUDENTIAL Facility Status: Historical	1521 GARDENA	0 - 1/8 SE	K85	94
K & W SASABE ELECTRIC Facility Status: Historical	1634 CENTRAL AVE	1/8 - 1/4 SSE	P113	116
LUXARY AUTO Facility Status: Historical	1626 CENTRAL AVE	1/8 - 1/4 SE	P115	117
CRYSTAL SONICS Facility Status: Historical	1638 CENTRAL AVE	1/8 - 1/4 SSE	P117	117
PALMER DISTRIBUTING Facility Status: Historical	1622 CENTRAL AVE	1/8 - 1/4 SE	P118	118
BECKETT PUMPS Facility Status: Historical	1620 CENTRAL AVE	1/8 - 1/4 SE	P120	120
VID FILM Facility Status: Historical	1627 CENTRAL AVE	1/8 - 1/4 SE	P121	120
HAMOND SASH & DOOR Facility Status: Historical	1649 CENTRAL AVE	1/8 - 1/4 SSE	R122	120
ROGER HUNTER Facility Status: Historical	1651 CENTRAL AVE	1/8 - 1/4 SSE	R125	123

## EXECUTIVE SUMMARY

Lower Elevation	Address	Dist / Dir	Map ID	Page
KAROLS GENERAL GAUGE Facility Status: Historical	1621 CENTRAL AVE	1/8 - 1/4 SE	S128	125
VID FILM Facility Status: Historical	342 EL BONITO	1/8 - 1/4 SE	AE197	187
SBS Facility Status: Historical	321 EL BONITO	1/8 - 1/4 SE	AF201	189
MODERN AUTO BODY Facility Status: Historical	318 EL BONITO	1/8 - 1/4 SE	AF202	189
VID-FILM Facility Status: Historical	1631 GARDENA	1/8 - 1/4 SSE	AH212	195
<b>LOS FELIZ CAR WASH</b> Facility Status: Historical	<b>3013 LOS FELIZ BLVD</b>	<b>1/8 - 1/4 WSW AG220</b>	<b>209</b>	
NATIONAL TELECONSULTANTS Facility Status: Historical	1651 GARDENA	1/8 - 1/4 SSE	AH237	208
SELECT CORY SYSTEMS Facility Status: Historical	1650 GARDENA	1/8 - 1/4 SSE	AH238	209
<b>SUPPOSE U DRIVE TRUCK RENTAL S</b> Facility Status: Historical	<b>3809 SAN FERNANDO ROAD</b>	<b>1/4 - 1/2 SE AM248</b>	<b>212</b>	
<b>SERVICE STATION 4252</b> Facility Status: Historical	<b>3050 LOS FELIZ BLVD</b>	<b>1/4 - 1/2 WSW AQ251</b>	<b>221</b>	
<b>SHELL #204-4540-6406</b> Facility Status: Historical	<b>3053 LOS FELIZ BLVD</b>	<b>1/4 - 1/2 WSW AQ281</b>	<b>234</b>	
<b>GLENDALE MACHINE &amp; BALANCE</b> Facility Status: Historical	<b>333 W CERRITOS</b>	<b>1/4 - 1/2 SE AQ270</b>	<b>245</b>	
<b>HENZEL HARUTIAN</b> Facility Status: Historical	<b>337 W CERRITOS</b>	<b>1/4 - 1/2 SE AQ272</b>	<b>246</b>	
POBADA MFG. Facility Status: Historical	324 W CERRITOS	1/4 - 1/2 SE	AQ273	247
CONTINENTAL HOSPITAL SUPPLY Facility Status: Historical	320 W CERRITOS	1/4 - 1/2 SE	AR274	247
NORTH AMERICAN TEXTILE CO Facility Status: Historical	346 W CERRITOS AVE	1/4 - 1/2 SE	AQ275	247
SARKIS BALYAN Facility Status: Historical	315 W CERRITOS	1/4 - 1/2 SE	AR276	247
SUPERIOR RUBBER STAMP Facility Status: Historical	3063 LOS FELIZ BLVD	1/4 - 1/2 WSW	AO281	251
STANDARD INDUSTRIAL ELECTRIC Facility Status: Historical	365 W CERRITOS	1/4 - 1/2 SSE	285	252
<b>SEGES AUTOMOTIVE INC</b> Facility Status: Historical	<b>3073 LOS FELIZ BLVD</b>	<b>1/4 - 1/2 WSW AV297</b>	<b>259</b>	
I CARE INTERNATIONAL Facility Status: Historical	4220 VERDANT ST	1/4 - 1/2 NW	BA315	281
ACE GRANITE INC. Facility Status: Historical	373B SAN FERNANDO RD	1/4 - 1/2 SE	AZ321	285
<b>MERRY X-RAY CHEMICAL CORPORATI</b> Facility Status: Historical	<b>346 MIRA LOMA AVENUE</b>	<b>1/4 - 1/2 SE BD337</b>	<b>300</b>	

## EXECUTIVE SUMMARY

Lower Elevation	Address	Dist / Dir	Map ID	Page
YASHICA Facility Status: Historical	344 MIRA LOMA	1/4 - 1/2 SE	BD339	302
UNITED TECHNOLOGIES OTIS Facility Status: Historical	345 MIRA LOMA	1/4 - 1/2 SE	BD340	303
MULDOON ENGINEERING INC. Facility Status: Historical	336 MIRA LOMA	1/4 - 1/2 SE	BD343	303
<b>COMPU-DIE COMPNAV</b> Facility Status: Historical	<b>325 MIRA LOMA AVENUE</b>	<b>1/4 - 1/2 SE BD344</b>	<b>304</b>	
MAXWELL CREATIONS Facility Status: Historical	329 MIRA LOMA	1/4 - 1/2 SE	BD345	304
ACMERENTS Facility Status: Historical	326 MIRA LOMA	1/4 - 1/2 SE	BD346	304
Z & A SEWING CONTRACTORS Facility Status: Historical	321 MIRA LOMA	1/4 - 1/2 SE	BE348	305
ANGELES BROADCASTING KAGLTV 30 Facility Status: Historical	318 MIRA LOMA	1/4 - 1/2 SE	BE349	305
LEONE'S FABRICATING Facility Status: Historical	319 MIRA LOMA	1/4 - 1/2 SE	BE350	305
CP AGENCY Facility Status: Historical	316 MIRA LOMA	1/4 - 1/2 SE	BE351	306
MARCH GLASS CORP. Facility Status: Historical	314 MIRA LOMA	1/4 - 1/2 SE	BE352	306
ECONOMY OFFICE SUPPLY Facility Status: Historical	1725 GARDENA	1/4 - 1/2 SSE	BH359	311
AMTRAK Facility Status: Historical	1736 GARDENA	1/4 - 1/2 SSE	BH360	311
<b>HARLEY DAVIDSON OF GLENDALE</b> Facility Status: Historical	<b>3717 SAN FERNANDO RD</b>	<b>1/4 - 1/2 SE BE377</b>	<b>317</b>	
TRANSMATIC Facility Status: Historical	3710 SAN FERNANDO RD	1/4 - 1/2 SE	BO410	352
RUIZ INDUSTRIES, INC. Facility Status: Historical	1741 GARDENA AVE	1/4 - 1/2 SSE	BP412	352
U. S. STOCK TRANSFER CORP. Facility Status: Historical	1745 GARDENA	1/4 - 1/2 SSE	BP416	356
GRUPO INDEPENDENCIA Facility Status: Historical	3702 SAN FERNANDO RD	1/4 - 1/2 SE	BO421	357
<b>BIG 4 AUTOPAINTING</b> Facility Status: Historical	<b>1801 S BRAND BLVD</b>	<b>1/4 - 1/2 SE BO430</b>	<b>364</b>	
<b>A.D. HOPPE CO</b> Facility Status: Historical	<b>1749 GARDENA AVE</b>	<b>1/4 - 1/2 SSE BP431</b>	<b>366</b>	
WOODY'S BICYCLE SHOP Facility Status: Historical	3159 LOS FELIZ BLVD	1/4 - 1/2 WSW	BW437	372
<b>JOHN JENSEN'S AUTO SERVICE</b> Facility Status: Historical	<b>1815 S BRAND BLVD</b>	<b>1/4 - 1/2 SE BV440</b>	<b>379</b>	
FORMERLY ADVEING ART Facility Status: Historical	1755 GARDENA	1/4 - 1/2 SSE	BX441	380

## EXECUTIVE SUMMARY

Lower Elevation	Address	Dist / Dir	Map ID	Page
FORMERLY KONAN DENKI USA CORP. Facility Status: Historical	1761 GARDENA	1/4 - 1/2SSE	BX444	382
FORMERLY T & W CONVERTERS Facility Status: Historical	1763 GARDENA	1/4 - 1/2SSE	BX449	386
ADRIAN'S CLEANERS Facility Status: Historical	3163 LOS FELIZ BLVD	1/4 - 1/2WSW	BW451	388
KELLER PLUMBING SUPPLY Facility Status: Historical	1829 S BRAND BLVD	1/4 - 1/2SE	454	389
ACME RENTAL INC. Facility Status: Historical	1855 S BRAND BLVD	1/4 - 1/2SE	CC477	401
BRAND PRODUCE Facility Status: Historical	1832 S BRAND BLVD	1/4 - 1/2SE	CC504	414
SYSTEMS AND METHODS, INC. Facility Status: Historical	4178 W CHEVY CHASE	1/4 - 1/2NNW	507	415
HERMAN PHINNEY KODMUR Facility Status: Historical	3607 SENECA AVE	1/4 - 1/2SSE	CI531	445

HMS: Los Angeles County Industrial Waste and Underground Storage Tank Sites.

A review of the LOS ANGELES CO. HMS list, as provided by EDR, and dated 01/31/2007 has revealed that there are 9 LOS ANGELES CO. HMS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
LOERA PAVING	422 W CYPRESS ST	0 - 1/8 N	H82	76
W & W MFG CO INC	426 W MAGNOLIA AVE	0 - 1/8 NNW	N83	98
ARCO PRODUCTS #00051	3941 SAN FERNANDO RD	0 - 1/8 E	O103	107
RICHARDSON EQUIPMENT RENTAL CA	4311 SAN FERNANDO RD	1/8 - 1/4N	X149	142
GLENDALE HOSPITAL	1420 S CENTRAL AVE	1/8 - 1/4ENE	Y159	151
GLENDALE UNIFIED SCHOOL DIST	333 W MAGNOLIA AVE	1/8 - 1/4ENE	AA182	169
MOBIL OIL SS 11GD4	1324 S CENTRAL AVE	1/8 - 1/4ENE	AB190	184
RAYNE WATER CONDITIONING	418 W PALMER AVE	1/8 - 1/4N	AG214	196
Lower Elevation	Address	Dist / Dir	Map ID	Page
GLENDALE TRANSFER & STORAGE	1601 GARDENA AVE	1/8 - 1/4SSE	R124	122

RESPONSE: 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.

A review of the RESPONSE list, as provided by EDR, and dated 05/29/2007 has revealed that there are 2 RESPONSE sites within approximately 1.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
WILSHIRE PROPERTIES	4685 SAN FERNANDO ROAD	1/2 - 1 NNW	587	490
Lower Elevation	Address	Dist / Dir	Map ID	Page
FRANCISCAN CERAMICS, INC.	2901 LOS FELIZ BOULEVAR	0 - 1/8 SW	G40	59

## EXECUTIVE SUMMARY

HAZNET: 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 from non-California manifests & continuation sheets are not included at the present time. 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, & disposal method. The source is the Department of Toxic Substance Control is the agency.

A review of the HAZNET list, as provided by EDR, and dated 12/31/2005 has revealed that there are 64 HAZNET sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
MECHANICAL ENG. CO.	433 FERNANDO CT	0 - 1/8	C5	25
MECHANICAL ENG. CO.	433 FERNANDO COURT	0 - 1/8	C6	26
MECHANICAL CONCEPTS INC	429 FERNANDO CT	0 - 1/8 ENE	C13	29
FLEMING JACQUET & MILLER INC	1300 GARDENA AVENUE	0 - 1/8 ENE	C14	30
NOVA AUTOMOTIVE	421 FERNANDO CT	0 - 1/8 ENE	C16	32
MERRY X-RAY CHEMICAL CORP	1422 GARDENA AVE	0 - 1/8 SE	D21	34
GUARDIAN X-RAY SERVICES INC	1422 GARDENA AVE	0 - 1/8 SE	D22	35
GUARDIAN X RAY SERVICES	1422 GARDENA AVE	0 - 1/8 SE	D23	36
COLOUR GROW	440 W CYPRESS	0 - 1/8 N	H42	66
PACIFIC STATE & BOX	1295 LOS ANGELES ST	0 - 1/8 NNW	I47	69
ADIN OF CALIFORNIA	425 W CYPRESS ST	0 - 1/8 N	H50	70
UNGER FABRIK INC	425 W CYPRESS ST	0 - 1/8 N	H51	71
ADIN OF CALIFORNIA	425 WEST CYPRESS STREET	0 - 1/8 N	H52	71
S J AUTO SUPPLY	4101 SAN FERNANDO RD	0 - 1/8 ENE	J55	73
LOERA PAVING	422 W CYPRESS ST	0 - 1/8 N	H62	76
KENCO CONSTRUCTION, INC.	1505 GARDENA AVENUE	0 - 1/8 SE	K65	78
NEWS TYPE SVC INC	1506 GARDENA AVE	0 - 1/8 SE	K67	78
J&D FOREIGN SERVICE	4011 SAN FERNANDO RD	0 - 1/8 ENE	L72	83
J&D FOREIGN AUTO SVC	4011 SAN FERNANDO RD	0 - 1/8 ENE	L73	84
PRINTEFEX	401 W LOS FELIZ, #C	0 - 1/8 ENE	L74	85
ANDY GALLANIN	4000 SAN FERNANDO RD	0 - 1/8 ENE	L76	86
AMBRIT INDUSTRIES	1288 LOS ANGELES ST	0 - 1/8 NNW	I80	88
CALIFORNIA CAR WASH	3940 SAN FERNANDO ROAD	0 - 1/8 E	O98	100
ARCO PRODUCTS COMPANY	3941 SAN FERNANDO RD	0 - 1/8 E	O101	104
DIKRAN KAREK	3910 SAN FERNANDO	1/8 - 1/4ESE	Q114	116
CHURCH PRESS	3915 SAN FERNANDO ROAD	1/8 - 1/4ESE	Q119	118
TRIANGLE RESTURANTS INCL&R CO	3900 SAN FERNANDO RD	1/8 - 1/4ESE	Q131	125
STEMBRIDGE GUN RENTALS INC	431 MAGNOLIA AVE	1/8 - 1/4N	U133	126
SERJ MOTORS AUTO BODY SHOP	1252 LOS ANGELES ST	1/8 - 1/4NNW	V135	127
UNGER FABRIK INC	1261 LOS ANGELES ST	1/8 - 1/4NNW	V136	129
DSC GRAPHICS, INC.	418 MAGNOLIA AVENUE	1/8 - 1/4N	U138	132
PRESSMAN INC	416 MAGNOLIA AVE	1/8 - 1/4N	U139	134
CAMP COMPREHENSIVE CANCER CENT	1620 S CENTRA AVE	1/8 - 1/4E	Q141	135
EL FARRA MD	1500 S CENTRAL AVE STE	1/8 - 1/4E	W143	139
JORGE E GALINDO MD	1510 S CENTRAL AVE SUIT	1/8 - 1/4E	W144	140
VERNON L SMYTHE MD	1500 SO CENTRAL AVE #30	1/8 - 1/4E	W145	140
MASOOD HAQUE MD INC	1800 SOUTH CENTRAL AVE	1/8 - 1/4E	W146	141
RICHARDSON EQUIPMENT RENTALS	4311 SAN FERNANDO ROAD	1/8 - 1/4N	X150	145
N.R. & S. JOHNSON, M.D.'S	1510 S CENTRAL AVE, STE	1/8 - 1/4ESE	Q152	146
YERVANT G. ASLANIAN DDS/MD	1510 SO CENTRAL AVE #54	1/8 - 1/4ESE	Q153	147
J.A. CONTRERAS, M.D.	1510 SOUTH CENTRAL AVEN	1/8 - 1/4ESE	Q154	148
COMPREHENSIVE CANCER CENTER	1520 S CENTRAL AVE	1/8 - 1/4ESE	Q156	149
VONS #2254	311 W LOS FELIZ BLVD	1/8 - 1/4ENE	Y157	150
GLENDALE MEMORIAL HOSPITAL & H	1420 S CENTRAL AVE	1/8 - 1/4ENE	Y183	152
GLENDALE MEMORIAL HOSPITAL & H	1420 S CENTRAL AVE	1/8 - 1/4ENE	Y187	155
HAL RENFRO	1242 LOS ANGELES STREET	1/8 - 1/4NNW	V177	165
MV TRANSPORTATION INC	1242 LOS ANGELES ST	1/8 - 1/4NNW	V178	165

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>GLENDALE UNIFIED SCHOOL DIST</b>	<b>333 W MAGNOLIA AVE</b>	<b>1/8 - 1/4 NE</b>	<b>AA182</b>	<b>169</b>
<b>MOBIL OIL CORP SS 11GD4 ROBERT</b>	<b>1324 S CENTRAL AVE</b>	<b>1/8 - 1/4 ENE</b>	<b>AB185</b>	<b>173</b>
<b>MOBIL OIL 11-GD4</b>	<b>1324 S CENTRAL AVE</b>	<b>1/8 - 1/4 ENE</b>	<b>AB186</b>	<b>176</b>
<b>DBA MODERN AUTO BODY OF GLENDA</b>	<b>3829 SAN FERNANDO RD</b>	<b>1/8 - 1/4 ESE</b>	<b>AD205</b>	<b>190</b>
<b>B C RADIATOR INC</b>	<b>422 W PALMER</b>	<b>1/8 - 1/4 NNW</b>	<b>AG210</b>	<b>194</b>
<b>IVY HILL GRAPHICS</b>	<b>1225 LOS ANGELES ST</b>	<b>1/8 - 1/4 NNW</b>	<b>AK225</b>	<b>203</b>
<b>WESTLAND GRAPHICS</b>	<b>1225 LOS ANGELES ST</b>	<b>1/8 - 1/4 NNW</b>	<b>AK229</b>	<b>206</b>
<b>TAJIMA CORP USA</b>	<b>4334 SAN FERNANDO RD</b>	<b>1/8 - 1/4 N</b>	<b>AJ231</b>	<b>206</b>
<b>A. D'ANGELO AND SONS INC</b>	<b>1260 SO CENTRAL AVE</b>	<b>1/8 - 1/4 NE</b>	<b>AL241</b>	<b>209</b>

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>MASON ELECTRIC CO, INC</b>	<b>440 W LOS FELIZ RD</b>	<b>0 - 1/8 SSE</b>	<b>B10</b>	<b>27</b>
<b>MODERN TYPE PRINTING</b>	<b>1511 RAILROAD RD</b>	<b>0 - 1/8 SSE</b>	<b>F37</b>	<b>57</b>
<b>FRANCISCAN CERAMICS, INC.</b>	<b>2901 LOS FELIZ</b>	<b>0 - 1/8 SW</b>	<b>G39</b>	<b>58</b>
<b>PRECISION PROPERTY SERVICE</b>	<b>3940 SENECA AVE</b>	<b>0 - 1/8 S</b>	<b>90</b>	<b>95</b>
<b>LUXURY AUTO SERVICE</b>	<b>1626 S CENTRAL AVE</b>	<b>1/8 - 1/4 SE</b>	<b>P116</b>	<b>117</b>
<b>SANAHIN PRODUCTIONS</b>	<b>2950 LOS FELIZ BLVD STE</b>	<b>1/8 - 1/4 WSW</b>	<b>Z165</b>	<b>155</b>
<b>OMNI-CARE CHIROPRACTIC CLINIC</b>	<b>2950 LOS FELIZ BLVD. ST</b>	<b>1/8 - 1/4 WSW</b>	<b>Z166</b>	<b>155</b>
<b>CLEAN SCENE SERVICES</b>	<b>4050 PERLITA AVE</b>	<b>1/8 - 1/4 WSW</b>	<b>Z06</b>	<b>192</b>

**Emissions Inventory Data:** Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies

A review of the EMI list, as provided by EDR, and dated 12/31/2005 has revealed that there are 15 EMI sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>LIGHTING SPECIALTIES INC</b>	<b>415 FERNANDO CT</b>	<b>0 - 1/8 ENE</b>	<b>19</b>	<b>33</b>
<b>ALGER LIGHTING CO., INC</b>	<b>4111 SAN FERNANDO RD</b>	<b>0 - 1/8 NE</b>	<b>J48</b>	<b>69</b>
<b>NEWS TYPE SVC INC</b>	<b>1506 GARDENA AVE</b>	<b>0 - 1/8 SE</b>	<b>K67</b>	<b>78</b>
<b>ANDY'S BURGER, YANG HYUN CHANG</b>	<b>4000 SAN FERNANDO ROAD</b>	<b>0 - 1/8 ENE</b>	<b>L78</b>	<b>87</b>
<b>AMBRIT IND INC</b>	<b>1288 LOS ANGELES ST.</b>	<b>0 - 1/8 NNW</b>	<b>M82</b>	<b>91</b>
<b>BELLEVE FURNITURE</b>	<b>4218 SAN FERNANDO RD</b>	<b>0 - 1/8 NNE</b>	<b>M88</b>	<b>94</b>
<b>SERJ MOTORS AUTO BODY SHOP</b>	<b>1252 LOS ANGELES ST</b>	<b>1/8 - 1/4 NNW</b>	<b>V135</b>	<b>127</b>
<b>W &amp; W MFG. CO., INC.</b>	<b>426 MAGNOLIA AVE</b>	<b>1/8 - 1/4 N</b>	<b>U137</b>	<b>131</b>
<b>RICHARDSON EQUIPMENT RENTAL CA</b>	<b>4311 SAN FERNANDO RD</b>	<b>1/8 - 1/4 N</b>	<b>X149</b>	<b>142</b>
<b>GLENDALE MEMORIAL HOSPITAL</b>	<b>1429 S CENTRAL AVE</b>	<b>1/8 - 1/4 ENE</b>	<b>Y168</b>	<b>157</b>
<b>AUTHORIZED COLLISION CENTER, S</b>	<b>368 MAGNOLIA AVE</b>	<b>1/8 - 1/4 NNE</b>	<b>169</b>	<b>162</b>
<b>GLENDALE UNIFIED SCHOOL DIST</b>	<b>333 W MAGNOLIA AVE</b>	<b>1/8 - 1/4 NE</b>	<b>AA182</b>	<b>169</b>
<b>MODERN AUTO BODY</b>	<b>3835 SAN FERNANDO RD</b>	<b>1/8 - 1/4 ESE</b>	<b>AD198</b>	<b>187</b>

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>KIMBALL CLEANERS</b>	<b>1630 S CENTRAL AVE</b>	<b>1/8 - 1/4 SE</b>	<b>P112</b>	<b>114</b>
<b>TAM O'SHANTER INN</b>	<b>2960 LOS FELIZ BL</b>	<b>1/8 - 1/4 WSW</b>	<b>AC193</b>	<b>185</b>

## EXECUTIVE SUMMARY

**ENVIROSTOR:** The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies 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 05/29/2007 has revealed that there are 8 ENVIROSTOR sites within approximately 1.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>SAN FERNANDO VALLEY (AREA 4)</b>	<b>POLLOCK WELLFIELD</b>	<b>0 - 1/8 SSW</b>	<b>0</b>	<b>7</b>
Facility Status: Certified / Operation & Maintenance				
<b>SAN FERNANDO VALLEY (AREA 2)</b>	<b>CRYSTAL SPRINGS WELLFIE</b>	<b>0 - 1/8</b>	<b>0</b>	<b>13</b>
Facility Status: Active				
<b>MCBRIDE CHEMICAL COMPANY</b>	<b>4215 WILLIMET STREET</b>	<b>1/4 - 1/2 NNW</b>	<b>BM406</b>	<b>346</b>
Facility Status: No Further Action				
<b>PACIFIC AIRMOTIVE</b>	<b>926 SOUTH BRAND BLVD</b>	<b>1/2 - 1 NE</b>	<b>CQ570</b>	<b>480</b>
Facility Status: Refer: Other Agency				
<b>WILSHIRE PROPERTIES</b>	<b>4585 SAN FERNANDO ROAD</b>	<b>1/2 - 1 NNW</b>	<b>587</b>	<b>490</b>
Facility Status: Certified				
<b>PACIFIC EDISON SCHOOL</b>	<b>PACIFIC AVENUE/VINE STR</b>	<b>1/2 - 1 NNW</b>	<b>601</b>	<b>503</b>
Facility Status: No Further Action				
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>FRANCISCAN CERAMICS, INC.</b>	<b>2901 LOS FELIZ BOULEVARD</b>	<b>0 - 1/8 SW</b>	<b>G40</b>	<b>59</b>
Facility Status: Certified / Operation & Maintenance				
<b>GARRETT ESTATE PROPERTY</b>	<b>3941 GOODWIN AVENUE</b>	<b>1/2 - 1 NW</b>	<b>539</b>	<b>499</b>
Facility Status: No Further Action				

### **EDR PROPRIETARY RECORDS**

**EDR 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.

A review of the EDR Historical Auto Stations list, as provided by EDR, has revealed that there are 79 EDR Historical Auto Stations sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>DAUGHERTY J E</b>	<b>410 W LOS FELIZ RD</b>	<b>0 - 1/8 ENE</b>	<b>E32</b>	<b>41</b>
<b>PELLEGRINI GARAGE</b>	<b>4101 SAN FERNANDO RD</b>	<b>0 - 1/8 ENE</b>	<b>J57</b>	<b>74</b>
<b>HUDSON SL</b>	<b>4116 SAN FERNANDO RD</b>	<b>0 - 1/8 NE</b>	<b>J64</b>	<b>77</b>
<b>INTERNATIONAL AUTO BODY</b>	<b>4019 SAN FERNANDO RD</b>	<b>0 - 1/8 ENE</b>	<b>L68</b>	<b>81</b>



## EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
LOS FELIZ FORD	4011 SAN FERNANDO RD	0 - 1/8 ENE	L71	82
MONTOOTH HARRY	400 W LOS FELIZ RD	0 - 1/8 ENE	L75	86
ZOBANAKY G W	4000 SAN FERNANDO RD	0 - 1/8 ENE	L77	87
SHELL OIL CO	3942 SAN FERNANDO RD	0 - 1/8 E	O95	97
LIN S ARCO SERVICE	3941 SAN FERNANDO RD	0 - 1/8 E	O102	106
TERRAZAS DAVID JR RICHFIELD SE	3941 SAN FERNANDO	0 - 1/8 E	O104	107
ED S TEXAGO SERVICE	4234 SAN FERNANDO RD	0 - 1/8 N	108	113
HENRY S GARAGE	302 W LOS FELIX RD	1/8 - 1/4 ENE	Y172	163
VILLAGE AUTO REPAIR	302 W LOS FELIZ RD	1/8 - 1/4 ENE	Y173	164
SUNSET SERV STA	300 W LOS FELIZ RD	1/8 - 1/4 ENE	Y176	165
RAY'S MOBIL SERVICE	1324 S CENTRAL AVE	1/8 - 1/4 ENE	AB191	184
COKER S TRANSMISSION EXCHANGE	3843 SAN FERNANDO RD	1/8 - 1/4 ESE	AD196	187
HARMON & HOFFMAN	227 W LOS FELIZ RD	1/8 - 1/4 ENE	AI221	201
MOBIL OIL STATIONS	225 W LOS FELIZ RD	1/8 - 1/4 ENE	AI223	201
SEIBERT G H	3826 SAN FERNANDO RD	1/8 - 1/4 ESE	AD230	206
HAGUE CT GARAGE	1224 HAGUE CT	1/8 - 1/4 NNE	244	211
HENRY S GARAGE	120 W LOS FELIZ RD	1/4 - 1/2 ENE	AS299	255
DAUGHERTY J E	118 W LOS FELIZ RD	1/4 - 1/2 ENE	AS291	255
HENRY S GARAGE	118-120 W LOS FELIZ R	1/4 - 1/2 ENE	AS292	256
HENRY S GARAGE	119 W LOS FELIZ RD	1/4 - 1/2 ENE	AS293	256
FRIEND DICK UNION SERVICE	4451 SAN FERNANDO RD	1/4 - 1/2 N	AT302	269
RICH MOTORS INC	1615 S BRAND BLVD	1/4 - 1/2 ESE	AX319	284
DAYTON CAL AUTO SERVICE	1500 S BRAND BLVD	1/4 - 1/2 E	AY322	286
MURRAYS FORD MAINTENANCE	1500 S BRAND	1/4 - 1/2 E	AY323	286
BYERLEY L W	1508 S BRAND BLVD	1/4 - 1/2 E	AY324	286
ATWOOD S PAUL BODY SHOP REAR	1510 S BRAND BLVD	1/4 - 1/2 E	AY325	287
DDUG S AUTO DETAIL	1400 S BRAND BLVD	1/4 - 1/2 ENE	BB333	298
PHIL'S CHEVRON	1325 S BRAND BLVD	1/4 - 1/2 ENE	BF356	307
JACK'S CHEVRON SERVICE	4501 SAN FERNANDO RD	1/4 - 1/2 NNW	BI359	314
GLENDALE AUTO BODY	511 W CHEVY CHASE DR	1/4 - 1/2 NNW	BI373	316
DAVID'S EXXON	1322 S BRAND BLVD	1/4 - 1/2 ENE	BF375	317
BARTON MOTOR SERVICE	107 E CERRITOS AVE	1/4 - 1/2 ESE	BK393	329
OKAMURO YAM BODY SHOP	1110 S CENTRAL AVE	1/4 - 1/2 NNE	BJ409	351
LAIL JOHNNY IMPORTED CARS	1260 S BRAND BLVD	1/4 - 1/2 ENE	BR415	355
FARKER FRANK C UNION OIL SERV	1742 S BRAND BLVD	1/4 - 1/2 ESE	BS417	356
LINDBLOM ERIC	1239 S BRAND BLVD	1/4 - 1/2 ENE	BT419	356
CUNLIFFE C M REAR	1231 S BRAND BLVD	1/4 - 1/2 ENE	BT426	361
SUMMERS T J	1240 S BRAND BLVD	1/4 - 1/2 ENE	BT429	364
MODERN MOTORS CO INC	1225 S BRAND BLVD	1/4 - 1/2 ENE	BT434	369
SEIBERT G H	1201 S BRAND BLVD	1/4 - 1/2 NE	CD486	406
REUST AUTO SERVICE	4542 SAN FERNANDO RD	1/4 - 1/2 NNW	CA499	412
THREE STOP AUTO SERVICE	4544 SAN FERNANDO RD	1/4 - 1/2 NNW	CA503	414
INNOCENT GARAGE	4546 SAN FERNANDO RD	1/4 - 1/2 NNW	CA505	415
FOUCH W J	1200 S BRAND BLVD	1/4 - 1/2 NE	CD506	415
PAUL M B MRS	1401 S GLENDALE AV	1/4 - 1/2 E	509	417
HANK S TEXAGO SERVICE	1327 S GLENDALE AVE	1/4 - 1/2 ENE	CG517	430
HANK S AUTOMOTIVE	1315 S GLENDALE AVE	1/4 - 1/2 ENE	CG523	439
LEVRETT B M	1120 S BRAND BLVD	1/4 - 1/2 NE	CH526	442
LEVRETT BAYLISS AUTOMATIC TRAN	1311 S GLENDALE AVE	1/4 - 1/2 ENE	CG530	444
LEARNER OIL CO STATION	1305 S GLENDALE AVE	1/4 - 1/2 ENE	CK539	449
EATON'S ROCKET SERVICE	1300 S GLENDALE AVE	1/4 - 1/2 ENE	CK543	453
SIDEBOTTOM V L	1101 S BRAND BLVD	1/4 - 1/2 NE	CM550	461
Lower Elevation	Address	Dist / Dir	Map ID	Page
BARTELS E J	435 W LOS FELIZ RD	0 - 1/8	B4	25

## EXECUTIVE SUMMARY

Lower Elevation	Address	Dist / Dir	Map ID	Page
BARTELS E J	485 W LOS FELIZ RD	0 - 1/8	B	27
RICHARDSON H F	449 W LOS FELIZ RD	0 - 1/8	B9	27
BINKLEY L W	436 W LOS FELIZ RD	0 - 1/8 SSE	B11	29
BARTELS E J	2868 LOS FELIZ BLVD	0 - 1/8 SW	G35	42
GREEN ALF	3002 LOS FELIZ BLVD	1/8 - 1/4 WSW	AC199	188
GATEWAY AUTO STORAGE	1647 GARDENA AV	1/8 - 1/4 SSE	AM232	207
GATEWAY STORAGE GARAGE	1647 GARDENA	1/8 - 1/4 SSE	AH233	207
RICHTER MYRON	3021 LOS FELIZ BLVD	1/8 - 1/4 WSW	Z35	208
PATTERSON R W	3050 LOS FELIZ BLVD	1/4 - 1/2 WSW	AQ252	223
CUMMING J A	3053 LOS FELIZ BLVD	1/4 - 1/2 WSW	AQ264	240
MC CRACKEN GEO	3060 LOS FELIZ BLVD	1/4 - 1/2 WSW	AQ271	246
STONE SHELL SERVICE STATION	3801 SAN FERNANDO RD	1/4 - 1/2 SE	286	252
MOORE E R	3742 SAN FERNANDO RD	1/4 - 1/2 SE	AZ314	280
R & M BODY SHOP	341 MIRA LOMA AVE	1/4 - 1/2 SE	BD342	303
ALLRED BROTHERS VOLKSWAGEN BOD	3721 SAN FERNANDO RD	1/4 - 1/2 SE	AZ362	311
GWYNN ALLEN	3717 SAN FERNANDO RD	1/4 - 1/2 SE	BE376	317
TRANS Matic PARTS SERVICE	3708 SAN FERNANDO RD	1/4 - 1/2 SE	BO411	352
GWYNN ALLEN	1809 S BRAND BLVD	1/4 - 1/2 SE	BV436	372
WELLS BODY AND FENDER SHOP	1821 S BRAND BLVD	1/4 - 1/2 SE	BV445	383
CLARK C A W	1855 S BRAND BLVD	1/4 - 1/2 SE	CC478	404
MILLS KENNY RICHFIELD STATION	1900 S BRAND BLVD	1/4 - 1/2 SSE	568	416
ALLEN H B	3203 LOS FELIZ BLVD	1/4 - 1/2 WSW	CF521	438

EDR 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.

A review of the EDR Historical Cleaners list, as provided by EDR, has revealed that there are 47 EDR Historical Cleaners sites within approximately 0.75 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
BRUNIER ARTHUR	413 W LOS FELIZ RD	0 - 1/8 ENE	E20	34
PEERLESS LAUNDRY	3843 SAN FERNANDO RD	1/8 - 1/4 ESE	AD194	186
BOECKELMAN A W	3818 SAN FERNANDO RD	1/8 - 1/4 ESE	AM239	209
CRESCENT LAUNDRY CO	4316 ALGER ST	1/4 - 1/2 NNW	AJ305	273
SOLINGER SOL	1311 ORANGE ST	1/4 - 1/2 ENE	307	275
GLENDALE LACEY CARPET CLEANING	1390 S BRAND BLVD	1/4 - 1/2 ENE	BB338	302
HOWELL'S LAUNDRETTE	4502 SAN FERNANDO RD	1/4 - 1/2 NNW	BI381	322
A&A CLEANERS	1729 S BRAND BLVD	1/4 - 1/2 ESE	BK390	320
HURLBURT CLAYTON	4824 SAN FERNANDO RD	1/4 - 1/2 NNW	BU456	397
MONTROSE CLEANERS	1322 S GLENDALE AVE	1/4 - 1/2 ENE	CG527	442
SWELLDOM CLEANERS DYERS	4463 ALGER ST	1/4 - 1/2 NNW	CL542	453
KROWECH A A	4483 ALGER ST	1/4 - 1/2 NNW	CL552	463
THRIFT D-LUX CLEANERS	1270 S GLENDALE AVE	1/2 - 1 ENE	CN553	464
THRIFTY WASH	1268 S GLENDALE AVE	1/2 - 1 ENE	CN556	465
SMITH CLEANERS	110 E CHEVY CHASE DR	1/2 - 1 NE	CM558	469
U WASH LAUNDROMAT	1256 S GLENDALE AVE	1/2 - 1 ENE	CN559	469
SAVOY CLEANERS	1254 S GLENDALE AVE	1/2 - 1 ENE	CO560	470
SHEA S CLEANERS	1238 S GLENDALE AVE	1/2 - 1 ENE	564	474
GLENDALE DYE WORKS	1015 S BRAND BLVD	1/2 - 1 NE	CP565	474
BEKINS VAN & STORAGE CO	929 S BRAND BLVD	1/2 - 1 NE	CQ568	480
STONIER W J	541 W GARFIELD AV	1/2 - 1 NNW	569	480

## EXECUTIVE SUMMARY

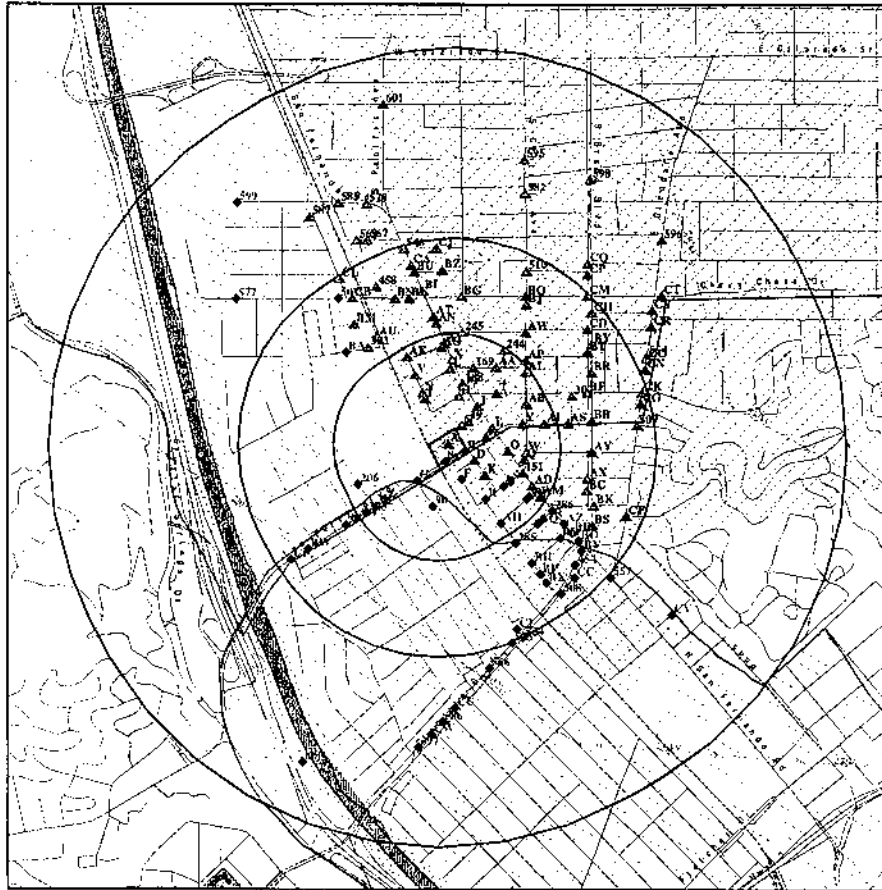
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
DRESS PARADE CLEANERS	1212 S GLENDALE AVE	1/2 - 1 ENE	CR571	482
SCOTTISH CLEANERS	1206 S GLENDALE AVE	1/2 - 1 ENE	CR572	482
BLUE BIRD LAUNDRY	1125 S GLENDALE AVE	1/2 - 1 ENE	CS573	483
PRETORIUS APPROVED PRODUCTS	1116 S GLENDALE AVE	1/2 - 1 ENE	CS574	483
PREMIER LAUNDRY	1113 S GLENDALE AVE	1/2 - 1 ENE	CS575	483
FONG S CHINESE LAUNDRY	1112 S GLENDALE AVE	1/2 - 1 ENE	CT576	483
GOSS CLEANERS & DYERS	4649 SAN FERNANDO RD	1/2 - 1 NNW	578	487
BROADWAY THORP S E	324 E CHEVY CHASE DR	1/2 - 1 ENE	CT581	488
CARL S RUG SHOP REAR	4650 SAN FERNANDO RD,	1/2 - 1 NNW	585	489
CHEVY CHASE CLEANERS	922 S GLENDALE AVE	1/2 - 1 NE	596	494
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
JARRETT C M	3083 LOS FELIZ BLVD	1/4 - 1/2 WSW	AO280	251
MC CORMICK FRED	3605 SENECA AVE	1/4 - 1/2 SSE	CI536	446
COLLINS C W	3453 GLENDALE BLVD	1/4 - 1/2 SSE	CI645	454
BULILER B D	3426 GLENDALE BLVD	1/2 - 1 SSE	554	464
BUHLER B D	3425 GLENDALE BLVD	1/2 - 1 SSE	555	464
KATZ MEYER	3187 GLENDALE BLVD	1/2 - 1 S	CU579	487
DIXON T E	3195 GLENDALE BLVD	1/2 - 1 S	CU580	488
MC CORMICK FRED	3208 GLENDALE BLVD	1/2 - 1 S	CU583	489
SPARRER WALTER	3204 GLENDALE BLVD	1/2 - 1 S	CU584	489
JENSEN JESSIE N MRS	3167 GLENDALE BLVD	1/2 - 1 S	586	490
VAIL BLANKET CLEANING CO	3046 ROSSLYN ST	1/2 - 1 SE	CV589	493
VAN DEVEER CURTAIN & BLANKET C	3046 ROSSLYN ST	1/2 - 1 SE	CV590	493
VAIL BLANKET CLNG CO	3046 ROSSLYN	1/2 - 1 SE	CV591	493
VAIL BLANKET CLEANING CO	3046 ROSSLYN	1/2 - 1 SE	CV592	493
GOSS W J	3139 GLENDALE BLVD	1/2 - 1 S	CW593	494
MC GOWAN J R	3125 GLENDALE BLVD	1/2 - 1 S	CW594	494

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
FIRESTONE INC	LOS ANGELES CO. HMS, SWEEPS UST
GUY SCHMIDT INC MAZDA	LOS ANGELES CO. HMS, SWEEPS UST
JUSTIN / SAN FERNANDO RD	CDL
WINDSOR CLEANERS	HAZNET, CLEANERS
VACANT LOT	Notify 66, WIP
PACIFIC STATES BOX & BASKET CO.	UST
GENERAL TELEPHONE	CA FID UST, HIST UST, WIP
BYSON	WMUDS/SWAT
BARRY POWELL REAL ESTATE INV CO IN	HAZNET
CITY OF GLENDALE/REDEVELOPMENT AGE	HAZNET
GLENDALE INFINITI	HAZNET
HYDROMEK INC	HAZNET
CITY OF LOS ANGELES	HAZNET
BIDDULPH VW ISUZU	RCRA-SQG, FINDS
NAVARRO ENGINEERING	WIP
SANTA FE PACIFIC REALTY CORP	LOS ANGELES CO. HMS
ED-LIN AUTO BODY INC	EMI
RALPHS GROCERY CO	EMI
SUNLAND CHEM & RESEARCH CORP	EMI
RALPHS GROCERY CO	EMI

OVERVIEW MAP - 2037078.2s



- 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
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern

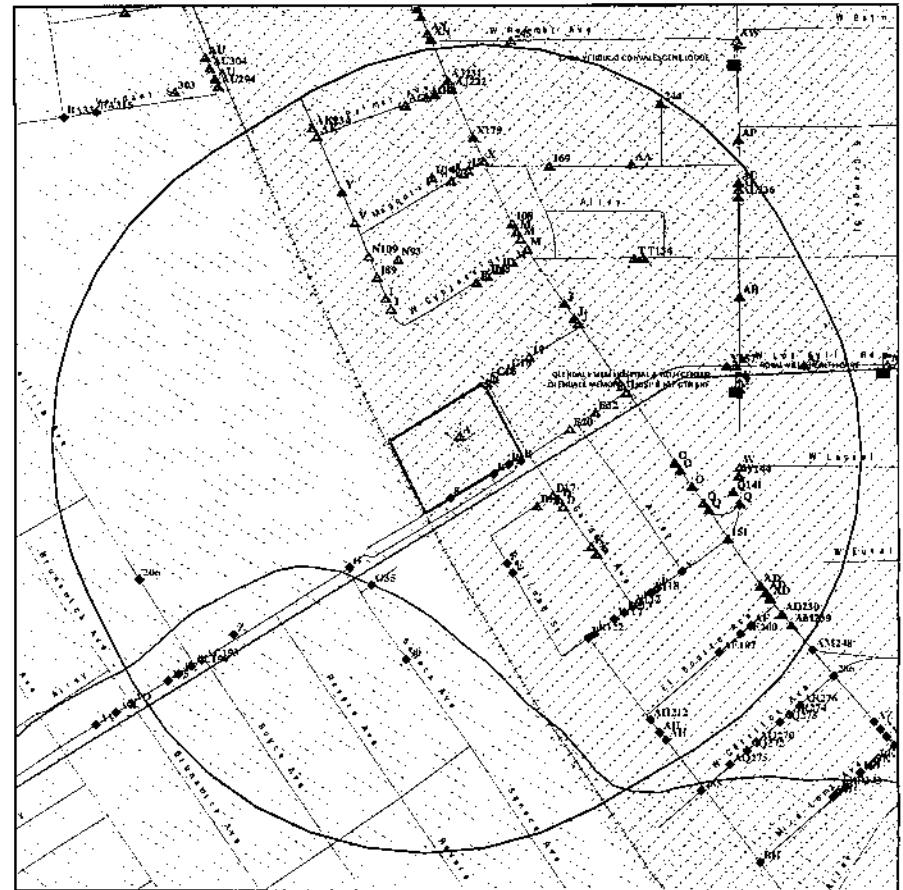
This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 465 Los Feliz  
 ADDRESS: 465 Los Feliz Road and 434-450 Fernando Court  
 Glendale CA 91204  
 LAT/LONG: 34.1279 / 118.2614

CLIENT: QORE Property Sciences  
 CONTACT: Thomas Hale  
 INQUIRY #: 2037078.2s  
 DATE: September 25, 2007 9:34 am

Copyright © 2007 ERI, Inc. © 2007 TMI All Rights Reserved.

DETAIL MAP - 2037078.2s



- 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
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- 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: 465 Los Feliz  
 ADDRESS: 465 Los Feliz Road and 434-450 Fernando Court  
 Glendale CA 91204  
 LAT/LONG: 34.1279 / 118.2614

CLIENT: QORE Property Sciences  
 CONTACT: Thomas Hale  
 INQUIRY #: 2037078.2s  
 DATE: September 25, 2007 9:34 am

Copyright © 2007 ERI, Inc. © 2007 TMI All Rights Reserved.

**MAP FINDINGS SUMMARY**

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>FEDERAL RECORDS</b>								
NPL		1.000	2	0	0	0	NR	2
Proposed NPL		1.250	0	0	0	0	0	0
Delisted NPL		0.750	0	0	0	0	NR	0
NPL LIENS		0.250	0	0	NR	NR	NR	0
CERCLIS		0.750	2	0	0	0	NR	2
CERC-NFRAP		0.750	0	0	1	0	NR	1
CORRACTS		1.250	0	0	0	0	0	0
RCRA TSD		1.250	0	0	0	0	0	0
RCRA Lg. Quan. Gen.		0.500	0	2	1	NR	NR	3
RCRA Sm. Quan. Gen.		0.500	6	10	42	NR	NR	58
ERNS		0.250	0	0	NR	NR	NR	0
HMIRS		0.250	0	0	NR	NR	NR	0
US ENG CONTROLS		0.500	1	0	0	NR	NR	1
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.250	0	0	0	0	0	0
FUJDS		1.250	0	0	0	0	0	0
US BROWNFIELDS		0.750	0	0	0	0	NR	0
CONSENT		1.250	0	0	0	0	0	0
ROD		1.250	1	0	0	0	0	1
UMTRA		1.250	0	0	0	0	0	0
ODI		0.750	0	0	0	0	NR	0
TRIS		0.250	0	1	NR	NR	NR	1
TSCA		0.250	0	0	NR	NR	NR	0
FTTS		0.250	0	0	NR	NR	NR	0
SSTS		0.250	0	0	NR	NR	NR	0
HIST FTTS		0.250	0	0	NR	NR	NR	0
ICIS		0.500	0	0	0	NR	NR	0
LUCIS		1.250	0	0	0	0	0	0
RADINFO		1.000	0	0	0	0	NR	0
LIENS 2		0.250	0	0	NR	NR	NR	0
DOT OPS		0.250	0	0	NR	NR	NR	0
CDL		0.250	0	0	NR	NR	NR	0
PADS		0.250	0	0	NR	NR	NR	0
MILTS		0.250	0	0	NR	NR	NR	0
MINES		0.500	0	0	0	NR	NR	0
FINDS		0.250	9	11	NR	NR	NR	20
RAATS		1.000	0	0	0	0	NR	0
<b>STATE AND LOCAL RECORDS</b>								
Hist Cat-Sites		1.250	3	0	0	1	0	4
CA Bond Exp. Plan		1.000	1	0	0	1	NR	2
SCH		0.500	0	0	0	NR	NR	0
Toxic Pits		1.250	0	0	0	0	0	0
State Landfill		0.750	0	0	1	0	NR	1
CA WDS		0.250	1	0	NR	NR	NR	1
WMUDS/SWAT		0.750	0	0	1	0	NR	1
Cortese		0.750	3	1	4	6	NR	14

**MAP FINDINGS SUMMARY**

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SWRCY		0.750	0	0	4	1	NR	5
LUST		0.750	2	2	5	6	NR	15
CA FID UST		0.500	1	5	16	NR	NR	22
SLIC		0.750	4	0	3	2	NR	9
AOC CONCERN		1.250	0	0	0	0	0	0
UST		0.500	0	3	8	NR	NR	11
HIST UST		0.500	5	8	32	NR	NR	45
AST		0.500	0	0	1	NR	NR	1
LIENS		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.500	3	8	31	NR	NR	42
CHMIRS		0.250	1	1	NR	NR	NR	2
Notify 68		1.250	0	0	0	1	0	1
LA Co. Site Mitigation		0.250	0	0	NR	NR	NR	0
DEED		0.750	1	0	0	0	NR	1
VCP		0.750	0	0	0	0	NR	0
DRYCLEANERS		0.750	0	1	3	2	NR	6
WIP	X	0.500	54	56	169	NR	NR	279
Los Angeles Co. HMS		0.250	3	6	NR	NR	NR	9
CDL		0.250	0	0	NR	NR	NR	0
RESPONSE		1.250	1	0	9	1	0	2
HAZNET	X	0.250	28	36	NR	NR	NR	64
EMI		0.250	6	9	NR	NR	NR	15
ENVIROSTOR		1.250	3	0	1	4	0	8
HAULERS		0.250	0	0	NR	NR	NR	0
<b>TRIBAL RECORDS</b>								
INDIAN RESERV		0.250	0	0	NR	NR	NR	0
INDIAN LUST		0.750	0	0	0	0	NR	0
INDIAN UST		0.500	0	0	0	NR	NR	0
<b>EDR PROPRIETARY RECORDS</b>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.500	16	13	50	NR	NR	79
EDR Historical Cleaners		0.750	1	2	12	32	NR	47

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID Direction  
 Distance  
 Distance (ft.)  
 Elevation Site Database(s) EDR ID Number EPA ID Number

MAP FINDINGS

A1 CHEF'S SELECT WIP S106769798  
 Target 465 LOS FELIZ RD N/A  
 Property GLENDALE, CA 91204

Site 1 of 3 in cluster A

Actual: 444 ft. WIP:  
 Region: 4  
 File Number: 113.5282  
 File Status: Historical  
 Staff: UNIDENTIFIED  
 Facility Suite: H

A2 GLENDALE ROTARY OFFSET PRINTING HAZNET S103659412  
 Target 434 FERNANDO CT N/A  
 Property GLENDALE, CA 91204

Site 2 of 3 in cluster A

Actual: 444 ft. HAZNET:

Gepaid: CAL000101007  
 Contact: ROBERT G DEAL  
 Telephone: 8189433377  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: PO BOX 696  
 Mailing City,St,Zip: GLENDALE, CA 912090000  
 Gen County: Los Angeles  
 TSD EPA ID: CAD981402522  
 TSD County: Kern  
 Waste Category: Photochemicals/photoprocessing waste  
 Disposal Method: Recycler  
 Tons: 0175  
 Facility County: Los Angeles

Gepaid: CAL000101007  
 Contact: ROBERT G DEAL  
 Telephone: 8189433377  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: PO BOX 696  
 Mailing City,St,Zip: GLENDALE, CA 912090000  
 Gen County: Los Angeles  
 TSD EPA ID: CAD981402522  
 TSD County: Kern  
 Waste Category: Photochemicals/photoprocessing waste  
 Disposal Method: Recycler  
 Tons: .0500  
 Facility County: Los Angeles

Gepaid: CAL000101007  
 Contact: ROBERT G DEAL  
 Telephone: 8189433377  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: PO BOX 696  
 Mailing City,St,Zip: GLENDALE, CA 912090000  
 Gen County: Los Angeles  
 TSD EPA ID: CAD981402522  
 TSD County: Kern

Map ID Direction  
 Distance  
 Distance (ft.)  
 Elevation Site Database(s) EDR ID Number EPA ID Number

MAP FINDINGS

GLENDALE ROTARY OFFSET PRINTING (Continued) S103659412  
 Waste Category: Photochemicals/photoprocessing waste  
 Disposal Method: Recycler  
 Tons: 0.05  
 Facility County: Los Angeles

A3 MOUNTAIN VALLEY WATER CO. WIP S106769797  
 Target 465 LOS FELIZ RD N/A  
 Property GLENDALE, CA 91204

Site 3 of 3 in cluster A

Actual: 444 ft. WIP:  
 Region: 4  
 File Number: 113.5280  
 File Status: Historical  
 Staff: UNIDENTIFIED  
 Facility Suite: F

NPL SAN FERNANDO VALLEY (AREA 4) CERCLIS 1000710135  
 Region POLLOCK WELLFIELD FINDS CAD980894976  
 SSW LOS ANGELES, CA 90086 NPL  
 < 1/8 Cortese  
 338 ft. ENVIROSTOR  
 HIST Cal-Sites

CERCLIS:  
 Site ID: 0902253  
 Federal Facility: Not a Federal Facility  
 NPL Status: Currently on the Final NPL  
 Non NPL Status: Not reported

CERCLIS Site Contact Name(s):  
 Contact Name: David Stensby  
 Contact Tel: (415) 972-3246  
 Contact Title: Remedial Project Manager (RPM)

Contact Name: Jere Johnson  
 Contact Tel: (415) 972-3094  
 Contact Title: Site Assessment Manager (SAM)

Contact Name: Dawn Richmond  
 Contact Tel: (415) 972-3097  
 Contact Title: Site Assessment Manager (SAM)

Contact Name: Matt Milguard  
 Contact Tel: (415) 972-3096  
 Contact Title: Site Assessment Manager (SAM)

CERCLIS Site Alias Name(s):  
 Alias Name: SAN FERNANDO VLY BASIN - POLLOCK AREA  
 Alias Address: Not reported  
 CA

Alias Name: SAN FERNANDO VALLEY (AREA 4)  
 Alias Address: POLLOCK WELLFIELD  
 LOS ANGELES, CA 90086

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

**SAN FERNANDO VALLEY (AREA 4) (Continued)**

1000710135

Site Description: SAN FERNANDO #4 IS AN AREA OF CONTAM GRD WTR IN POLLOCK WELLFLD AEA IN LOS ANGELES,CA.PART OF SAN FERNANDO VLY BASIN.A NATURAL UNDRGRD RESERVOIR THAT IS SOURCE OF DRK WTR FOR 3 MILGRD WTR CONTAM WITH TCE & PCE.

**CERCLIS Assessment History:**

Action: DISCOVERY  
 Date Started: Not reported  
 Date Completed: 12/01/1983  
 Priority Level: Not reported

Action: HAZARD RANKING SYSTEM PACKAGE  
 Date Started: Not reported  
 Date Completed: 04/01/1984  
 Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT  
 Date Started: Not reported  
 Date Completed: 04/01/1984  
 Priority Level: High

Action: SITE INSPECTION  
 Date Started: Not reported  
 Date Completed: 04/01/1984  
 Priority Level: High

Action: PROPOSAL TO NATIONAL PRIORITIES LIST  
 Date Started: Not reported  
 Date Completed: 10/15/1984  
 Priority Level: Not reported

Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH  
 Date Started: 09/30/1984  
 Date Completed: 08/15/1985  
 Priority Level: Not reported

Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
 Date Started: 08/16/1985  
 Date Completed: Not reported  
 Priority Level: Not reported

Action: FINAL LISTING ON NATIONAL PRIORITIES LIST  
 Date Started: Not reported  
 Date Completed: 06/10/1986  
 Priority Level: Not reported

Action: REMOVAL ASSESSMENT  
 Date Started: 06/17/1991  
 Date Completed: 05/17/1991  
 Priority Level: Not reported

Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
 Date Started: 09/28/1992  
 Date Completed: Not reported  
 Priority Level: Not reported

Action: RISK/HEALTH ASSESSMENT  
 Date Started: Not reported  
 Date Completed: 12/15/1982

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

**SAN FERNANDO VALLEY (AREA 4) (Continued)**

1000710135

Priority Level: Not reported

Action: ECOLOGICAL RISK ASSESSMENT  
 Date Started: Not reported  
 Date Completed: 12/15/1992  
 Priority Level: Not reported

Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH  
 Date Started: 10/01/1989  
 Date Completed: 06/30/1993  
 Priority Level: Not reported

Action: ADMINISTRATIVE ORDER ON CONSENT  
 Date Started: Not reported  
 Date Completed: 07/20/2000  
 Priority Level: Not reported

**FINDS:**

Other Pertinent Environmental Activity Identified at Site

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

**NPL:**

EPA ID: CAD980894976  
 EPA Region: 9  
 Federal: No  
 Final Date: 08/10/1988

**Category Details:**

NPL Status: Currently on the Final NPL  
 Category Description: Depth To Aquifer-<= 10 Feet  
 Category Value: 1

NPL Status: Currently on the Final NPL  
 Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile  
 Category Value: 10

**Site Details:**

Site Name: SAN FERNANDO VALLEY (AREA 4)  
 Site Status: Final  
 Status Date: 06/10/86  
 Site City: LOS ANGELES  
 Site State: CA  
 Federal Site: Not a Federal Facility  
 HRS Score: 35.57  
 GW Score: 61.54  
 SW Score: 0.00  
 Air Score: Not reported

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

**SAN FERNANDO VALLEY (AREA 4) (Continued)**

1000710135

Soil Score: Not reported  
 DC Score: Not reported  
 FE Score: Not reported

**Substance Details:**

NPL Status: Currently on the Final NPL  
 Substance ID: Not reported  
 Substance: Not reported  
 CAS #: Not reported  
 Pathway: Not reported  
 Scoring: Not reported

NPL Status: Currently on the Final NPL  
 Substance ID: U078  
 Substance: DICHLOROETHENE, 1,1-  
 CAS #: 75-35-4  
 Pathway: GROUND WATER PATHWAY  
 Scoring: 4

NPL Status: Currently on the Final NPL  
 Substance ID: U210  
 Substance: TETRACHLOROETHENE  
 CAS #: 127-18-4  
 Pathway: GROUND WATER PATHWAY  
 Scoring: 2

NPL Status: Currently on the Final NPL  
 Substance ID: U228  
 Substance: TRICHLOROETHYLENE (TCE)  
 CAS #: 79-04-6  
 Pathway: GROUND WATER PATHWAY  
 Scoring: 2

**Summary Details:**

Conditions at proposal October 15, 1984: San Fernando Valley Area 4) is an area of contaminated ground water in the Pollock Well Field area in the City of Los Angeles, Los Angeles County, California. The area is part of the San Fernando Valley Basin, a natural underground reservoir that represents an important source of drinking water for at least 3 million people in the Los Angeles metropolitan area. The contaminated ground water, which underlies an area of approximately 5,860 acres, contains perchloroethylene (PCE), according to tests conducted by the California Department of Health Services, as well as numerous local government agencies. The State's recommended drinking water guideline for PCE 4 parts per billion is exceeded in a number of public wells in this area. To alleviate this contamination, wells are either taken out of service or blended with water from clean sources to ensure that the public receives water with concentrations below the State guideline. Status June 10, 1986: EPA and the Los Angeles Department of Water and Power are entering into a cooperative agreement for a remedial investigation of the San Fernando Valley Basin and a feasibility study targeted at Area 1, the most contaminated area. The RI is scheduled to begin in early 1986.

**Site Status Details:**

NPL Status: Final  
 Proposed Date: 10/15/1984  
 Final Date: 08/10/1986  
 Deleted Date: Not reported

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

**SAN FERNANDO VALLEY (AREA 4) (Continued)**

1000710135

**Narratives Details:**

NPL Name: SAN FERNANDO VALLEY (AREA 4)  
 City: LOS ANGELES  
 State: CA

**Cortese:**

Region: CORTESE  
 Facility Addr2: Not reported

**ENVIROSTOR:**

Site Type: Federal Superfund  
 Site Type Detailed: State Response or NPL  
 Acre: 5828  
 NPL: YES  
 Regulatory Agencies: US EPA  
 Lead Agency: NONE SPECIFIED  
 Program Manager: TEDD YARGEAU  
 Supervisor: Rita Kamat  
 Division Branch: So Cal - Glendale  
 Facility ID: 19890009  
 Site Code: Not reported  
 Assembly: 43  
 Senate: 21  
 Special Program: EPA - Multi-Site Cooperative Agreement  
 Status: Certified / Operation & Maintenance  
 Status Date: 1999-01-01 00:00:00  
 Restricted Use: NO  
 Funding: Joint State/Federal-Funded  
 Latitude: 34.12944444444444  
 Longitude: -118.264166666667  
 Alias Name: P31034  
 SAN FERNANDO VALLEY GW BASIN AREA 4  
 POLLOCK AREA; OVERALL BASIN SCHEDULE  
 19990009

**Alias Type:**

PCode  
 Alternate Name  
 Alternate Name  
 Envirostor ID Number

**APN:**

APN Description: NONE SPECIFIED  
 Comments: Not reported  
 Completed Area Name: Not reported  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Not reported  
 Completed Date: Not reported  
 Confirmed: 30022,30026,30027,30152,30153  
 Confirmed Description: Tetrachloroethylene (PCE)  
 Confirmed Description: 1,1,1-Trichloroethane (TCA)  
 Confirmed Description: Trichloroethylene (TCE)  
 Confirmed Description: Chromium III  
 Confirmed Description: Chromium VI  
 Future Area Name: Not reported  
 Future Sub Area Name: Not reported  
 Future Document Type: Not reported  
 Future Due Date: Not reported

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

**SAN FERNANDO VALLEY (AREA 4) (Continued)**

1000710135

Media Affected: 30022, 30026, 30027, 30152, 30153  
 Media Affected Desc: Not reported  
 Media Affected Desc: Not reported  
 Media Affected Desc: Not reported  
 Media Affected Desc: Not reported  
 Media Affected Desc: Not reported  
 Management Required: NONE SPECIFIED  
 Management Required Desc: Not reported  
 Potential: AQUI, SOIL, WELL  
 Potential Description: Not reported  
 Potential Description: Not reported  
 Potential Description: 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  
 Past/Use: AEROSPACE MANUFACTURING/MAINTENANCE, METAL PLATING - CHROME, RESEARCH  
 - AEROSPACE

**HISTORICAL CAL-SITES:**

Facility ID: 19990009  
 Region: 3  
 Region Name: GLENDALE  
 Branch: SA  
 Branch Name: SO CAL - GLENDALE  
 File Name: Not reported  
 State Senate District: 01011984  
 Status: AWP - ANNUAL WORKPLAN (AWP) - ACTIVE SITE  
 Status Name: ANNUAL WORKPLAN - ACTIVE SITE  
 Lead Agency: EPA  
 Lead Agency: ENVIRONMENTAL PROTECTION AGENCY  
 Facility Type: NPJF  
 Type Name: NPL SITE, JOINT STATE/FEDERAL-FUNDED  
 NPL: Listed  
 SIC Code: 99  
 SIC Name: NONCLASSIFIABLE ESTABLISHMENTS  
 Access: Not reported  
 Corse: Not reported  
 Hazardous Ranking Score: Not reported  
 Date Site Hazard Ranked: Not reported  
 Groundwater Contamination: Confirmed  
 Staff Member Responsible for Site: TYARGEAU  
 Supervisor Responsible for Site: Not reported  
 Region Water Control Board: LA  
 Region Water Control Board Name: LOS ANGELES  
 Lat/Long Direction: Not reported  
 Lat/Long (dms): 0 0 0 / 0 0 0  
 Lat/Long Method: Not reported  
 Lat/Long Description: Not reported  
 State Assembly District Code: 43  
 State Senate District Code: 21

[Click this hypedlink](#) while viewing on your computer to access additional CA_CALSITE: detail in the EDR Site Report.

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

**SAN FERNANDO VALLEY (AREA 2) (Continued)**

1000710134

Date Started: Not reported  
 Date Completed: 04/01/1984  
 Priority Level: Not reported  
 Action: PRELIMINARY ASSESSMENT  
 Date Started: Not reported  
 Date Completed: 04/01/1984  
 Priority Level: High  
 Action: SITE INSPECTION  
 Date Started: Not reported  
 Date Completed: 04/01/1984  
 Priority Level: High  
 Action: PROPOSAL TO NATIONAL PRIORITIES LIST  
 Date Started: Not reported  
 Date Completed: 10/15/1984  
 Priority Level: Not reported  
 Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH  
 Date Started: 09/30/1984  
 Date Completed: 08/15/1985  
 Priority Level: Not reported  
 Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
 Date Started: 08/16/1985  
 Date Completed: Not reported  
 Priority Level: Not reported  
 Action: TECHNICAL ASSISTANCE  
 Date Started: 09/30/1985  
 Date Completed: Not reported  
 Priority Level: Not reported  
 Action: FINAL LISTING ON NATIONAL PRIORITIES LIST  
 Date Started: Not reported  
 Date Completed: 06/10/1986  
 Priority Level: Not reported  
 Action: REMOVAL ASSESSMENT  
 Date Started: 06/17/1991  
 Date Completed: 08/17/1991  
 Priority Level: Not reported  
 Action: Notice Letters Issued  
 Date Started: Not reported  
 Date Completed: 08/31/1992  
 Priority Level: Not reported  
 Action: Notice Letters Issued  
 Date Started: Not reported  
 Date Completed: 11/12/1992  
 Priority Level: Not reported  
 Action: Notice Letters Issued  
 Date Started: Not reported  
 Date Completed: 11/24/1992



Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

SAN FERNANDO VALLEY (AREA 2) (Continued) 1000710134

Priority Level: Not reported

Action: ECOLOGICAL RISK ASSESSMENT  
 Date Started: Not reported  
 Date Completed: 12/15/1992  
 Priority Level: Not reported

Action: RISK/HEALTH ASSESSMENT  
 Date Started: Not reported  
 Date Completed: 12/15/1992  
 Priority Level: Not reported

Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
 Date Started: 03/06/1989  
 Date Completed: 06/18/1993  
 Priority Level: Not reported

Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
 Date Started: 09/06/1989  
 Date Completed: 08/18/1993  
 Priority Level: Not reported

Action: RECORD OF DECISION  
 Date Started: Not reported  
 Date Completed: 06/18/1993  
 Priority Level: Not reported

Action: RECORD OF DECISION  
 Date Started: Not reported  
 Date Completed: 06/18/1993  
 Priority Level: Not reported

Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH  
 Date Started: 10/01/1989  
 Date Completed: 06/30/1993  
 Priority Level: Not reported

Action: REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS  
 Date Started: 09/30/1993  
 Date Completed: 03/30/1994  
 Priority Level: Not reported

Action: ADMINISTRATIVE ORDER ON CONSENT  
 Date Started: Not reported  
 Date Completed: 03/30/1994  
 Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN  
 Date Started: 05/01/1994  
 Date Completed: 11/11/1996  
 Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN  
 Date Started: 05/01/1994  
 Date Completed: 11/11/1996  
 Priority Level: Not reported

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

SAN FERNANDO VALLEY (AREA 2) (Continued) 1000710134

Action: REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS  
 Date Started: 10/12/1995  
 Date Completed: 11/26/1996  
 Priority Level: Not reported

Action: UNILATERAL ADMIN ORDER  
 Date Started: Not reported  
 Date Completed: 11/26/1996  
 Priority Level: Not reported

Action: UNILATERAL ADMIN ORDER  
 Date Started: Not reported  
 Date Completed: 09/30/1997  
 Priority Level: Not reported

Action: PROSPECTIVE PURCHASER AGREEMENT ASSESSMENT  
 Date Started: 11/30/1997  
 Date Completed: 12/02/1999  
 Priority Level: PPA Signed

Action: Lodged By DOJ  
 Date Started: Not reported  
 Date Completed: 05/17/2000  
 Priority Level: Not reported

Action: ADMINISTRATIVE ORDER ON CONSENT  
 Date Started: Not reported  
 Date Completed: 06/07/2000  
 Priority Level: Not reported

Action: CONSENT DECREE  
 Date Started: 03/30/2000  
 Date Completed: 08/02/2000  
 Priority Level: Not reported

Action: SECTION 107 LITIGATION  
 Date Started: 03/04/1997  
 Date Completed: 08/02/2000  
 Priority Level: Not reported

Action: PREPARATION OF COST DOCUMENT PACKAGE  
 Date Started: 06/30/2000  
 Date Completed: 09/30/2000  
 Priority Level: Not reported

Action: PROSPECTIVE PURCHASER AGREEMENT ASSESSMENT  
 Date Started: 11/30/2000  
 Date Completed: 12/22/2000  
 Priority Level: PPA Signed

Action: ADMINISTRATIVE ORDER ON CONSENT  
 Date Started: Not reported  
 Date Completed: 07/23/2001  
 Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY LONG-TERM RESPONSE ACTION  
 Date Started: 09/30/2002

Map ID  
 Direction  
 Distance  
 Distance (R.)  
 Elevation Site

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

**SAN FERNANDO VALLEY (AREA 2) (Continued)**

1000710134

Date Completed: Not reported  
 Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION  
 Date Started: 10/17/1997  
 Date Completed: 09/30/2002  
 Priority Level: Interim RA Report

Action: ADMINISTRATIVE ORDER ON CONSENT  
 Date Started: Not reported  
 Date Completed: 06/29/2006  
 Priority Level: Not reported

**FINDS:**

Other Pertinent Environmental Activity Identified at Site

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

**NPL:**

EPA ID: CAD980894901  
 EPA Region: 9  
 Federal: No  
 Final Date: 06/10/1986

**Category Details:**

NPL Status: Currently on the Final NPL  
 Category Description: Depth To Aquifer <= 10 Feet  
 Category Value: 1

NPL Status: Currently on the Final NPL  
 Category Description: Distance To Nearest Population > 0 And <= 1/4 Mile  
 Category Value: 10

**Site Details:**

Site Name: SAN FERNANDO VALLEY (AREA 2)  
 Site Status: Final  
 Status Date: 06/10/86  
 Site City: GLENDALE  
 Site State: CA  
 Federal Site: Not a Federal Facility  
 HRS Score: 42.24  
 GW Score: 73.08  
 SW Score: 0.00  
 Air Score: Not reported  
 Soil Score: Not reported  
 DC Score: Not reported  
 FE Score: Not reported

Map ID  
 Direction  
 Distance  
 Distance (R.)  
 Elevation Site

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

**SAN FERNANDO VALLEY (AREA 2) (Continued)**

1000710134

Substance Details:

NPL Status: Currently on the Final NPL  
 Substance ID: Not reported  
 Substance: Not reported  
 CAS #: Not reported  
 Pathway: Not reported  
 Scoring: Not reported

NPL Status: Currently on the Final NPL  
 Substance ID: U044  
 Substance: CHLOROFORM  
 CAS #: 67-56-3  
 Pathway: GROUND WATER PATHWAY  
 Scoring: 4

NPL Status: Currently on the Final NPL  
 Substance ID: U210  
 Substance: TETRACHLOROETHENE  
 CAS #: 127-18-4  
 Pathway: GROUND WATER PATHWAY  
 Scoring: 2

NPL Status: Currently on the Final NPL  
 Substance ID: U228  
 Substance: TRICHLOROETHYLENE (TCE)  
 CAS #: 79-01-9  
 Pathway: GROUND WATER PATHWAY  
 Scoring: 2

**Summary Details:**

Conditions at proposal October 15, 1984: San Fernando Valley Area 2) is an area of contaminated ground water located in the vicinity of the Crystal Springs Well Field in the Cities of Los Angeles and Glendale, Los Angeles County, California. This area is part of the San Fernando Valley Basin, a natural underground reservoir that represents an important source of drinking water for at least 3 million people in the Los Angeles metropolitan area. The contaminated ground water, which underlies an area of approximately 6,580 acres, contains trichloroethylene (TCE) and perchloroethylene (PCE), according to tests conducted by the California Department of Health Services, as well as numerous local government agencies. The State's recommended drinking water guidelines for TCE and PCE 5 and 4 parts per billion respectively) are exceeded in a number of public wells in this area. To alleviate this contamination, wells are either taken out of service or blended with water from clean sources to ensure that the public receives water with TCE/PCE concentrations below the State's guidelines. Status June 10, 1986: EPA and the Los Angeles Department of Water and Power are entering into a cooperative agreement for a remedial investigation of the San Fernando Valley Basin and a feasibility study targeted at Area 1, the most contaminated area. The RI is scheduled to begin in early 1985.

**Site Status Details:**

NPL Status: Final  
 Proposed Date: 10/15/1984  
 Final Date: 08/10/1986  
 Deleted Date: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Database(s)  
EPA ID Number

SAN FERNANDO VALLEY (AREA 2) (Continued)

1000710134

Narratives Details:

NPL Name: SAN FERNANDO VALLEY (AREA 2)  
City: GLENDALE  
State: CA

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

US ENG CONTROLS:

EPA ID: CAD980894901  
Site ID: 0902252  
Name: SAN FERNANDO VALLEY (AREA 2)  
Address: CRYSTAL SPRINGS WELLFIELD AREA  
GLENDALE, CA 91209

EPA Region: 08  
County: LOS ANGELES  
Event Code: Not reported  
Actual Date: Not reported

Action ID: 002  
Action Name: PRP RA  
Action Completion date: 9/30/2002  
Planned Complet. date: 9/30/2002  
Operable Unit: 03  
Contaminated Media: Groundwater  
Engineering Control: Air Stripping

Action ID: 002  
Action Name: PRP RA  
Action Completion date: 9/30/2002  
Planned Complet. date: 9/30/2002  
Operable Unit: 03  
Contaminated Media: Groundwater  
Engineering Control: Discharge

Action ID: 002  
Action Name: PRP RA  
Action Completion date: 9/30/2002  
Planned Complet. date: 9/30/2002  
Operable Unit: 03  
Contaminated Media: Groundwater  
Engineering Control: Extraction

Action ID: 002  
Action Name: PRP RA  
Action Completion date: 9/30/2002  
Planned Complet. date: 9/30/2002  
Operable Unit: 03  
Contaminated Media: Groundwater  
Engineering Control: Filtration

Action ID: 002  
Action Name: PRP RA  
Action Completion date: 9/30/2002  
Planned Complet. date: 9/30/2002

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Database(s)  
EPA ID Number

SAN FERNANDO VALLEY (AREA 2) (Continued)

1000710134

Operable Unit: 03  
Contaminated Media: Groundwater  
Engineering Control: Liquid Phase Carbon Adsorption

Action ID: 002  
Action Name: PRP RA  
Action Completion date: 9/30/2002  
Planned Complet. date: 9/30/2002  
Operable Unit: 03  
Contaminated Media: Groundwater  
Engineering Control: Treatment, (N.O.S.)

Action ID: 001  
Action Name: PRP RD  
Action Completion date: 11/11/1996  
Planned Complet. date: 12/31/1996  
Operable Unit: 02  
Contaminated Media: Groundwater  
Engineering Control: Air Stripping

Action ID: 001  
Action Name: PRP RD  
Action Completion date: 11/11/1996  
Planned Complet. date: 12/31/1996  
Operable Unit: 02  
Contaminated Media: Groundwater  
Engineering Control: Hydraulic Control

Action ID: 001  
Action Name: PRP RD  
Action Completion date: 11/11/1996  
Planned Complet. date: 12/31/1996  
Operable Unit: 02  
Contaminated Media: Groundwater  
Engineering Control: Liquid Phase Carbon Adsorption

Action ID: 001  
Action Name: PRP RD  
Action Completion date: 11/11/1996  
Planned Complet. date: 12/31/1996  
Operable Unit: 02  
Contaminated Media: Groundwater  
Engineering Control: Monitoring

Action ID: 001  
Action Name: PRP RD  
Action Completion date: 11/11/1996  
Planned Complet. date: 12/31/1996  
Operable Unit: 02  
Contaminated Media: Groundwater  
Engineering Control: Pump And Treat

Action ID: 002  
Action Name: RECORD OF DECISION  
Action Completion date: 8/18/1993  
Planned Complet. date: 8/30/1993  
Operable Unit: 03

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

SAN FERNANDO VALLEY (AREA 2) (Continued)

1000710134

Contaminated Media : Groundwater  
Engineering Control: Air Stripping

Action ID: 002  
Action Name: RECORD OF DECISION  
Action Completion date: 6/18/1993  
Planned Complet. date: 6/30/1993  
Operable Unit: 03  
Contaminated Media : Groundwater  
Engineering Control: Discharge

Action ID: 002  
Action Name: RECORD OF DECISION  
Action Completion date: 6/18/1993  
Planned Complet. date: 6/30/1993  
Operable Unit: 03  
Contaminated Media : Groundwater  
Engineering Control: Extraction

Action ID: 002  
Action Name: RECORD OF DECISION  
Action Completion date: 6/18/1993  
Planned Complet. date: 6/30/1993  
Operable Unit: 03  
Contaminated Media : Groundwater  
Engineering Control: Filtration

Action ID: 002  
Action Name: RECORD OF DECISION  
Action Completion date: 6/18/1993  
Planned Complet. date: 6/30/1993  
Operable Unit: 03  
Contaminated Media : Groundwater  
Engineering Control: Liquid Phase Carbon Adsorption

Action ID: 002  
Action Name: RECORD OF DECISION  
Action Completion date: 6/18/1993  
Planned Complet. date: 6/30/1993  
Operable Unit: 03  
Contaminated Media : Groundwater  
Engineering Control: Treatment, (N.O.S.)

Action ID: 003  
Action Name: RECORD OF DECISION  
Action Completion date: 6/18/1993  
Planned Complet. date: 6/30/1993  
Operable Unit: 02  
Contaminated Media : Groundwater  
Engineering Control: Air Stripping

Action ID: 003  
Action Name: RECORD OF DECISION  
Action Completion date: 6/18/1993  
Planned Complet. date: 6/30/1993  
Operable Unit: 02  
Contaminated Media : Groundwater

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

SAN FERNANDO VALLEY (AREA 2) (Continued)

1000710134

Engineering Control: Carbon Adsorption

Action ID: 003  
Action Name: RECORD OF DECISION  
Action Completion date: 6/18/1993  
Planned Complet. date: 6/30/1993  
Operable Unit: 02  
Contaminated Media : Groundwater  
Engineering Control: Discharge

Action ID: 003  
Action Name: RECORD OF DECISION  
Action Completion date: 6/18/1993  
Planned Complet. date: 6/30/1993  
Operable Unit: 02  
Contaminated Media : Groundwater  
Engineering Control: Extraction

Action ID: 003  
Action Name: RECORD OF DECISION  
Action Completion date: 6/18/1993  
Planned Complet. date: 6/30/1993  
Operable Unit: 02  
Contaminated Media : Groundwater  
Engineering Control: Filtration

Action ID: 003  
Action Name: RECORD OF DECISION  
Action Completion date: 6/18/1993  
Planned Complet. date: 6/30/1993  
Operable Unit: 02  
Contaminated Media : Groundwater  
Engineering Control: Liquid Phase Carbon Adsorption

ENVIROSTOR:  
Site Type: Federal Superfund  
Site Type Detailed: State Response or NPL  
Acres: 7229  
NPL: YES  
Regulatory Agencies: SMBRP, RWQCB 4 - Los Angeles, US EPA  
Lead Agency: US EPA  
Program Manager: TEDD YARGEAU  
Supervisor: Rita Kamat  
Division Branch: So Cal - Glendale  
Facility ID: 19990012  
Site Code: 300127  
Assembly: 43  
Senate: 21  
Special Program: EPA - Multi-Site Cooperative Agreement  
Status: Active  
Status Date: 1994-01-01 00:00:00  
Restricted Use: NO  
Funding: Joint State/Federal-Funded  
Latitude: 34.1575  
Longitude: -118.284722222222  
Alias Name: 300127

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Database(s)  
EPA ID Number

SAN FERNANDO VALLEY (AREA 2) (Continued) 1000710134

P31032  
SAN FERNANDO VALLEY GW BASIN AREA 2  
CRYSTAL SPRINGS AREA, GLENDALE OU  
19990012

Alias Type: PCode  
Alternate Name  
Alternate Name  
Project Code (Site Code)  
Envirowater ID Number

APN: NONE SPECIFIED  
APN Description: Not reported  
Comments: An Administrative Order on Consent is signed by U.S. EPA and PRPs to conduct the Remedial Design of the groundwater extraction, treatment, disinfection, blending, and distribution facilities necessary to implement the Glendale North and South RODs. City of Glendale assumes operation of the Glendale Water Treatment Plant.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Plan  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Plan  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation / Feasibility Study  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation / Feasibility Study  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation / Feasibility Study  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation / Feasibility Study  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Participation Plan / Community Relations Plan  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial: Operating Properly & Successfully  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Design  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Consent Order  
Completed Date: / /  
Confirmed: 30022,30026,30027,30152,30153  
Confirmed Description: Tetrachloroethylene (PCE)  
Confirmed Description: 1,1,1-Trichloroethane (TCA)  
Confirmed Description: Trichloroethylene (TCE)  
Confirmed Description: Chromium III

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Database(s)  
EPA ID Number

SAN FERNANDO VALLEY (AREA 2) (Continued) 1000710134

Confirmed Description: Chromium VI  
Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Long Term Monitoring Report  
Future Due Date: 2021  
Media Affected: 30022, 30026, 30027, 30152, 30153  
Media Affected Desc: Not reported  
Media Affected Desc: Not reported  
Media Affected Desc: Not reported  
Media Affected Desc: Not reported  
Media Affected Desc: Not reported  
Media Affected Desc: Not reported  
Management Required: NONE SPECIFIED  
Management Required Desc: Not reported  
Potential: AQUI, SOIL  
Potential Description: Not reported  
Potential Description: 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  
Past/Use: AEROSPACE MANUFACTURING/MAINTENANCE, MANUFACTURING - INDUSTRIAL MACHINERY, METAL FINISHING, METAL PLATING - CHROME, METAL PLATING - OTHER, RESEARCH - AEROSPACE

HISTORICAL CAL-SITES:

Facility ID: 19990012  
Region: 3  
Region Name: GLENDALE  
Branch: SA  
Branch Name: SO CAL - GLENDALE  
File Name: Not reported  
State Senate District: 01011984  
Status: AWP - ANNUAL WORKPLAN (AWP) - ACTIVE SITE  
Status Name: ANNUAL WORKPLAN - ACTIVE SITE  
Lead Agency: EPA  
Lead Agency: ENVIRONMENTAL PROTECTION AGENCY  
Facility Type: NPJF  
Type Name: NPL SITE, JOINT STATE/FEDERAL-FUNDED  
NPL: Listed  
SIC Code: 99  
SIC Name: NONCLASSIFIABLE ESTABLISHMENTS  
Access: Not reported  
Cortese: Not reported  
Hazardous Ranking Score: Not reported  
Date Site Hazard Ranked: Not reported  
Groundwater Contamination: Confirmed  
Staff Member Responsible for Site: TYARGEAU  
Supervisor Responsible for Site: Not reported  
Region Water Control Board: LA  
Region Water Control Board Name: LOS ANGELES  
Lat/Long Direction: Not reported  
Lat/Long (dms): 0 0 0 / 0 0 0  
Lat/Long Method: Not reported  
Lat/Long Description: Not reported  
State Assembly District Code: 43  
State Senate District Code: 21

Map ID	Direction	Distance	Distance (ft.)	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
--------	-----------	----------	----------------	-----------	------	-------------	---------------	---------------

MAP FINDINGS

**SAN FERNANDO VALLEY (AREA 2) (Continued)** 1005710134

[Click this hyperlink](#) while viewing on your computer to access additional CA_CALSITE detail in the EDR Site Report.

**B4** **BARTELS E J** EDR Historical Auto Stations 1009014773  
**435 W LOS FELIZ RD** N/A  
**< 1/8**  
**1 ft.** **GLENDALE, CA**

Relative: Lower  
 Actual: 443 ft.

Site 1 of 5 in cluster B  
 EDR Historical Auto Stations:  
 Name: BENT H S  
 Year: 1930  
 Type: SERVICE STATIONS (GASOLINE AND OIL)

Name: BENT H S  
 Year: 1930  
 Type: SERVICE STATIONS

Name: BARTELS E J  
 Year: 1940  
 Type: AUTO SERVICE STATIONS GAS AND OIL

Name: BARTELS E J  
 Year: 1945  
 Type: AUTO SERVICE STATIONS GASOLINE AND OIL

Name: BARTELS E J  
 Year: 1945  
 Type: AUTO SERVICE STATIONS GASOLINE AND OIL

**C5** **MECHANICAL ENG. CO.** HAZNET S106769277  
**433 FERNANDO CT** WIP N/A  
**< 1/8**  
**1 ft.** **GLENDALE, CA 91204**

Relative: Higher  
 Actual: 446 ft.

Site 1 of 7 in cluster C  
 HAZNET:  
 Geopid: CAD008477713  
 Contact: EVELYN ANDERSON  
 Telephone: 3232458891  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 433 FERNANDO CT  
 Mailing City,St,Zip: GLENDALE, CA 912042723  
 Gen County: Los Angeles  
 TSD EPA ID: CAT000813976  
 TSD County: Los Angeles  
 Waste Category: Liquids with halogenated organic compounds > 1000 mg/l  
 Disposal Method: Transfer Station  
 Tons: 0.16  
 Facility County: Los Angeles

Geopid: CAC002569888  
 Contact: JULIE ALVARADO  
 Telephone: 8188410939  
 Facility Addr2: Not reported

Map ID	Direction	Distance	Distance (ft.)	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
--------	-----------	----------	----------------	-----------	------	-------------	---------------	---------------

MAP FINDINGS

**MECHANICAL ENG. CO. (Continued)** S106769277

Mailing Name: Not reported  
 Mailing Address: 607 S GLENWOOD PLACE  
 Mailing City,St,Zip: BURBANK, CA 91506  
 Gen County: Los Angeles  
 TSD EPA ID: CAT080013352  
 TSD County: Los Angeles  
 Waste Category: Oil/water separation sludge  
 Disposal Method: Recycler  
 Tons: 1.63  
 Facility County: Los Angeles

WIP:  
 Region: 4  
 File Number: 113 0149  
 File Status: Historical  
 Staff: JG  
 Facility Suite: Not reported

**C6** **MECHANICAL ENG. CO.** HAZNET S105088496  
**433 FERNANDO COURT** N/A  
**< 1/8**  
**1 ft.** **GLENDALE, CA 91204**

Relative: Higher  
 Actual: 446 ft.

Site 2 of 7 in cluster C  
 HAZNET:  
 Geopid: CAD008477713  
 Contact: Not reported  
 Telephone: 000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 433 FERNANDO CT  
 Mailing City,St,Zip: GLENDALE, CA 912042723  
 Gen County: Los Angeles  
 TSD EPA ID: CAT000813976  
 TSD County: Orange  
 Waste Category: Liquids with halogenated organic compounds > 1000 mg/l  
 Disposal Method: Transfer Station  
 Tons: 1.250  
 Facility County: Los Angeles

Geopid: CAD008477713  
 Contact: EVELYN ANDERSON  
 Telephone: 3232458891  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 433 FERNANDO CT  
 Mailing City,St,Zip: GLENDALE, CA 912042723  
 Gen County: Los Angeles  
 TSD EPA ID: Not reported  
 TSD County: Orange  
 Waste Category: Liquids with halogenated organic compounds > 1000 mg/l  
 Disposal Method: Transfer Station  
 Tons: 0.07  
 Facility County: Not reported

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

C7 FLOOR MART WIP S106769278  
 437 FERNANDO CT N/A  
 < 1/8  
 1 ft. GLENDALE, CA 91204  
 Site 3 of 7 in cluster C  
 Relative: Higher  
 WIP:  
 Region: 4  
 Actual: File Number: 113.0150  
 448 ft. File Status: Historical  
 Staff: JG  
 Facility Suite: Not reported

B BARTELS E J EDR Historical Auto Stations 1009017594  
 485 W LOS FELIZ RD N/A  
 < 1/8  
 1 ft. GLENDALE, CA  
 Relative: Lower EDR Historical Auto Stations:  
 Name: BARTELS E J  
 Year: 1940  
 Actual: Type: AUTO SERVICE STATIONS GAS AND OIL  
 434 ft.

B9 RICHARDSON H F EDR Historical Auto Stations 1009013884  
 449 W LOS FELIZ RD N/A  
 < 1/8  
 5 ft. GLENDALE, CA  
 Site 2 of 5 in cluster B  
 Relative: Lower EDR Historical Auto Stations:  
 Name: RICHARDSON H F  
 Year: 1930  
 Actual: Type: SERVICE STATIONS  
 442 ft. Name: RICHARDSON H F  
 Year: 1930  
 Type: SERVICE STATIONS (GASOLINE AND OIL)

B10 MASON ELECTRIC CO, INC HAZNET 1000336708  
 440 W LOS FELIZ RD N/A  
 < 1/8  
 14 ft. GLENDALE, CA 91204  
 Site 3 of 5 in cluster B  
 Relative: Lower HAZNET:  
 Gepaid: CAD981383912  
 Actual: Contact: MASON ELECTRONIC CO INC  
 443 ft. Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 440 W LOS FELIZ RD  
 Mailing City,St,Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: CAD008302903  
 TSD County: Los Angeles  
 Waste Category: Waste oil and mixed oil  
 Disposal Method: Recycler

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

MASON ELECTRIC CO, INC (Continued) 1000336708  
 Tons: 2085  
 Facility County: Los Angeles  
 Gepaid: CAD981383912  
 Contact: MASON ELECTRONIC CO INC  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 440 W LOS FELIZ RD  
 Mailing City,St,Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: CAD008302903  
 TSD County: Los Angeles  
 Waste Category: Waste oil and mixed oil  
 Disposal Method: Not reported  
 Tons: 2085  
 Facility County: Los Angeles  
 Gepaid: CAD981383912  
 Contact: MASON ELECTRONIC CO INC  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 440 W LOS FELIZ RD  
 Mailing City,St,Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: CAD008302903  
 TSD County: Los Angeles  
 Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)  
 Disposal Method: Recycler  
 Tons: 2085  
 Facility County: Los Angeles  
 Gepaid: CAD981383912  
 Contact: MASON ELECTRONIC CO INC  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 440 W LOS FELIZ RD  
 Mailing City,St,Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: CAD008302903  
 TSD County: Los Angeles  
 Waste Category: Waste oil and mixed oil  
 Disposal Method: Recycler  
 Tons: 4170  
 Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access  
 -1 additional CA_HAZNET: record(s) in the EDR Site Report.

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site Database(s) EDR ID Number  
 EPA ID Number

MAP FINDINGS

B11 BINKLEY L W EDR Historical Auto Stations 1008014776  
 SSE 436 W LOS FELIZ RD N/A  
 < 1/8 GLENDALE, CA  
 14 ft.  
 Site 4 of 5 In cluster B  
 Relative: Lower EDR Historical Auto Stations:  
 Name: BINKLEY L W  
 Year: 1945  
 Actual: 443 ft. Type: AUTO SERVICE STATIONS GASOLINE AND OIL  
 Name: BINKLEY L W  
 Year: 1945  
 Type: AUTO SERVICE STATIONS GASOLINE AND OIL

B12 MASON ELECTRIC COMPANY WIP S106769799  
 SSE 440 LOS FELIZ RD N/A  
 < 1/8 GLENDALE, CA 91204  
 14 ft.  
 Site 5 of 5 In cluster B  
 Relative: Lower WIP:  
 Region: 4  
 Actual: File Number: 113.5284  
 443 ft. File Status: Active  
 Staff: UNIDENTIFIED  
 Facility Suite: Not reported

C13 MECHANICAL CONCEPTS INC HAZNET S106769276  
 ENE 429 FERNANDO CT WIP N/A  
 < 1/8 GLENDALE, CA 91204  
 16 ft.  
 Site 4 of 7 In cluster C  
 Relative: Higher HAZNET:  
 Gepaid: CAL000088985  
 Actual: Contact: BRUCE WILTON  
 447 ft. Telephone: 8185071033  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 429 FERNANDO CT  
 Mailing City,St,Zip: GLENDALE, CA 91204  
 Gen County: Los Angeles  
 TSD EPA ID: CAT0800336B1  
 TSD County: Los Angeles  
 Waste Category: Waste oil and mixed oil  
 Disposal Method: Recycler  
 Tons: 0.41  
 Facility County: Los Angeles  
 Gepaid: CAL000088985  
 Contact: BRUCE WILTON  
 Telephone: 8185071033  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 429 FERNANDO CT  
 Mailing City,St,Zip: GLENDALE, CA 91204  
 Gen County: Los Angeles

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site Database(s) EDR ID Number  
 EPA ID Number

MAP FINDINGS

MECHANICAL CONCEPTS INC (Continued) S106769276  
 TSD EPA ID: CAD008252405  
 TSD County: Los Angeles  
 Waste Category: Unspecified solvent mixture Waste  
 Disposal Method: Recycler  
 Tons: 0.01  
 Facility County: Not reported  
 Gepaid: CAL000088985  
 Contact: BRUCE WILTON  
 Telephone: 8185071033  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 429 FERNANDO CT  
 Mailing City,St,Zip: GLENDALE, CA 91204  
 Gen County: Los Angeles  
 TSD EPA ID: CAD008252405  
 TSD County: Los Angeles  
 Waste Category: Unspecified solvent mixture Waste  
 Disposal Method: Recycler  
 Tons: 0.01  
 Facility County: Not reported

WIP:  
 Region: 4  
 File Number: 113.0148  
 File Status: Historical  
 Staff: UNIDENTIFIED  
 Facility Suite: Not reported

C14 FLEMING JACQUET & MILLER INC HAZNET S100835403  
 ENE 1300 GARDENA AVENUE N/A  
 < 1/8 GLENDALE, CA 91204  
 16 ft.  
 Site 5 of 7 In cluster C  
 Relative: Higher HAZNET:  
 Actual: Gepaid: CAL00045320  
 447 ft. Contact: FLEMING EDGAR  
 Telephone: 000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 1300 GARDENA AVE  
 Mailing City,St,Zip: GLENDALE, CA 912042726  
 Gen County: Los Angeles  
 TSD EPA ID: CAT08003162B  
 TSD County: Kern  
 Waste Category: Unspecified solvent mixture Waste  
 Disposal Method: Recycler  
 Tons: .4378  
 Facility County: Los Angeles  
 Gepaid: CAL00045320  
 Contact: FLEMING EDGAR  
 Telephone: 000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 1300 GARDENA AVE



Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

FLEMING JACQUET & MILLER INC (Continued)

S100935403

Mailing City,St,Zip: GLENDALE, CA 912042726  
 Gen County: Los Angeles  
 TSD EPA ID: CAD009452657  
 TSD County: San Mateo  
 Waste Category: Unspecified solvent mixture Waste  
 Disposal Method: Recycler  
 Tons: 1.2593  
 Facility County: Los Angeles

Gepaid: CAL000045320  
 Contact: FLEMING EDGAR  
 Telephone: 0000000000

Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 1300 GARDENA AVE  
 Mailing City,St,Zip: GLENDALE, CA 912042726  
 Gen County: Los Angeles  
 TSD EPA ID: CAD009452657  
 TSD County: San Mateo  
 Waste Category: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)  
 Disposal Method: Recycler  
 Tons: .4587  
 Facility County: Los Angeles

Gepaid: CAL000045320  
 Contact: FLEMING EDGAR  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 1300 GARDENA AVE  
 Mailing City,St,Zip: GLENDALE, CA 912042726  
 Gen County: Los Angeles  
 TSD EPA ID: CAD009452657  
 TSD County: San Mateo  
 Waste Category: Other organic solids  
 Disposal Method: Disposal, Land Fill  
 Tons: .5500  
 Facility County: Los Angeles

Gepaid: CAL000045320  
 Contact: FLEMING EDGAR  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 1300 GARDENA AVE  
 Mailing City,St,Zip: GLENDALE, CA 912042726  
 Gen County: Los Angeles  
 TSD EPA ID: CAT080031628  
 TSD County: Kern  
 Waste Category: Unspecified solvent mixture Waste  
 Disposal Method: Recycler  
 Tons: .6924  
 Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access 10 additional CA_HAZNET record(s) in the EDR Site Report.

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

C15  
 ENE  
 < 1/8  
 46 ft.

Relative:  
 Higher

Actual:  
 447 ft.

WIP:  
 Region: 4  
 File Number: 113.0147  
 File Status: Historical  
 Staff: UNIDENTIFIED  
 Facility Suite: Not reported

WIP S106769275  
 N/A

C16  
 ENE  
 < 1/8  
 113 ft.

Relative:  
 Higher

Actual:  
 448 ft.

Site 5 of 7 in cluster C  
 HAZNET:  
 Gepaid: CAP400477747  
 Contact: Not reported  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: Not reported  
 Mailing City,St,Zip: 000000000  
 Gen County: 0  
 TSD EPA ID: NVT330010000  
 TSD County: 99  
 Waste Category: Contaminated soil from site clean-ups  
 Disposal Method: Not reported  
 Tons: 40.4544  
 Facility County: 0

HAZNET WIP S103658764  
 N/A

WIP:  
 Region: 4  
 File Number: 113.0146  
 File Status: Historical  
 Staff: MH  
 Facility Suite: Not reported

Region: 4  
 File Number: 113.0145  
 File Status: Historical  
 Staff: UNIDENTIFIED  
 Facility Suite: Not reported

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

D17 AMTREAT CORP. HIST UST U001566909  
 SE 1405 RAILROAD ST N/A  
 < 1/8 GLENDALE, CA 91204

192 ft. Site 1 of 13 in cluster D

Relative:  
 Higher HIST UST:  
 Region: STATE  
 Facility ID: 0000000657  
 Tank Num: 001  
 Container Num: 1  
 Year Installed: Not reported  
 Tank Capacity: 0000000  
 Facility Type: Other  
 Other Type: HEAT TREATING  
 Total Tanks: 0001  
 Tank Used for: WASTE OIL  
 Type of Fuel: WASTE OIL  
 Tank Construction: 5 inches  
 Leak Detection: Visual, None  
 Contact Name: JOHN TREVINO  
 Telephone: 8182427727  
 Owner Name: AMCRY CORP.  
 Owner Address: 602 SONORA AVE.  
 Owner City, St, Zip: GLENDALE, CA 91201

D18 STARGATE FILM WIP S106769165  
 SSE 1421 RAILROAD N/A  
 < 1/8 GLENDALE, CA 91204

196 ft. Site 2 of 13 in cluster D

Relative:  
 Higher WIP:  
 Region: 4  
 File Number: 112,0391  
 File Status: Historical  
 Staff: UNIDENTIFIED  
 Facility Suite: Not reported

19 LIGHTING SPECIALTIES INC EMI S106834526  
 ENE 415 FERNANDO CT N/A  
 < 1/8 GLENDALE, CA 91204

Relative:  
 Higher EMI:  
 Year: 1987  
 Carbon Monoxide Emissions Tons/Yr: 19  
 Air Basin: SC  
 Facility ID: 1078  
 Air District Name: SC  
 SIC Code: 2521  
 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

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

LIGHTING SPECIALTIES INC (Continued) S105834528

SOX - Oxides of Sulphur Tons/Yr: 0  
 Particulate Matter Tons/Yr: 0  
 Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 1990  
 Carbon Monoxide Emissions Tons/Yr: 19  
 Air Basin: SC  
 Facility ID: 1078  
 Air District Name: SC  
 SIC Code: 5083  
 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 & Smllr Tons/Yr: 0

E20 BRUNIER ARTHUR EDR Historical Cleaners 1009142072  
 ENE 413 W LOS FELIZ RD N/A  
 < 1/8 GLENDALE, CA

213 ft. Site 1 of 2 in cluster E

Relative:  
 Higher EDR Historical Cleaners:  
 Name: BRUNIER ARTHUR  
 Year: 1930  
 Type: CLEANERS & DYERS  
 Name: BRUNIER ARTHUR  
 Year: 1930  
 Type: CLEANERS & DYERS

D21 MERRY X-RAY CHEMICAL CORP HAZNET S108213722  
 SE 1422 GARDENA AVE N/A  
 < 1/8 GLENDALE, CA 91204

223 ft. Site 3 of 13 in cluster D

Relative:  
 Higher HAZNET:  
 Cepaid: CAL000153238  
 Actual: Contact: AL LEWIN/BRANCH MANAGER  
 445 ft. Telephone: 8182408370  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 1422 GARDENA AVE  
 Mailing City, St, Zip: GLENDALE, CA 912040000  
 Gen County: Not reported  
 TSD EPA ID: Not reported  
 TSD County: Not reported  
 Waste Category: Not reported  
 Disposal Method: Not reported  
 Toné: Not reported

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

MERRY X-RAY CHEMICAL CORP (Continued)

S108213722

Facility County: Not reported  
 Gepaid: CAL00015323B  
 Contact: AL LEWIN/BRANCH MANAGER  
 Telephone: 8182408370  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 1422 GARDENA AVE  
 Mailing City,St,Zip: GLENDALE, CA 912040000  
 Gen County: Not reported  
 TSD EPA ID: Not reported  
 TSD County: Not reported  
 Waste Category: Not reported  
 Disposal Method: Not reported  
 Tons: Not reported  
 Facility County: Not reported

D22  
 SE  
 < 1/8  
 223 ft.

GUARDIAN X-RAY SERVICES INC  
 1422 GARDENA AVE  
 GLENDALE, CA 91204

HAZNET S103966937  
 N/A

Relative:  
 Higher

Site 4 of 13 in cluster D

Actual:  
 445 ft.

HAZNET:  
 Gepaid: CAL000072103  
 Contact: GUARDIAN X-RAY SERVICES INC  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 1422 GARDENA AVE  
 Mailing City,St,Zip: GLENDALE, CA 912042710  
 Gen County: Los Angeles  
 TSD EPA ID: CAD981402522  
 TSD County: Kern  
 Waste Category: Metal sludge - Alkaline solution (PH <UN> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)  
 Disposal Method: Recycler  
 Tons: .0105  
 Facility County: Los Angeles

Gepaid: CAL000072103  
 Contact: GUARDIAN X-RAY SERVICES INC  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 1422 GARDENA AVE  
 Mailing City,St,Zip: GLENDALE, CA 912042710  
 Gen County: Los Angeles  
 TSD EPA ID: CAD981402522  
 TSD County: Kern  
 Waste Category: Other inorganic solid waste  
 Disposal Method: Recycler  
 Tons: .0120  
 Facility County: Los Angeles

Gepaid: CAL000072103

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

GUARDIAN X-RAY SERVICES INC (Continued)

S103966937

Contact: GUARDIAN X-RAY SERVICES INC  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 1422 GARDENA AVE  
 Mailing City,St,Zip: GLENDALE, CA 912042710  
 Gen County: Los Angeles  
 TSD EPA ID: CAD981402522  
 TSD County: Kern  
 Waste Category: Other inorganic solid waste  
 Disposal Method: Recycler  
 Tons: .0185  
 Facility County: Los Angeles

Gepaid: CAL000072103  
 Contact: GUARDIAN X-RAY SERVICES INC  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 1422 GARDENA AVE  
 Mailing City,St,Zip: GLENDALE, CA 912042710  
 Gen County: Los Angeles  
 TSD EPA ID: CAD981402522  
 TSD County: Kern  
 Waste Category: Photochemicals/photoprocessing waste  
 Disposal Method: Recycler  
 Tons: .0208  
 Facility County: Los Angeles

Gepaid: CAL000072103  
 Contact: GUARDIAN X-RAY SERVICES INC  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 1422 GARDENA AVE  
 Mailing City,St,Zip: GLENDALE, CA 912042710  
 Gen County: Los Angeles  
 TSD EPA ID: CAL000051064  
 TSD County: Los Angeles  
 Waste Category: Photochemicals/photoprocessing waste  
 Disposal Method: Recycler  
 Tons: .1042  
 Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access 6 additional CA_HAZNET record(s) in the EDR Site Report.

D23  
 SE  
 < 1/8  
 223 ft.

GUARDIAN X RAY SERVICES  
 1422 GARDENA AVE  
 GLENDALE, CA 91204

RCRA-SQG 1000588971  
 FINDS CAD883608645

Relative:  
 Higher

Site 5 of 13 in cluster D

Actual:  
 445 ft.

HAZNET  
 SLIC  
 WIP

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

GUARDIAN X RAY SERVICES (Continued)

1000586971

RCRAInfo:

Owner: GUARDIAN X RAY SERVICES  
(818) 240-8370  
EPA ID: CAD983609645  
Contact: MARK HEBNER  
(818) 240-8370

Classification: Conditionally Exempt Small Quantity Generator  
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

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.

HAZNET:

Gepaid: CAD983609645  
Contact: GUARDIAN X RAY SERVICES  
Telephone: 000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 1422 GARDENA AVE  
Mailing City,St,Zip: GLENDALE, CA 912040000  
Gen County: Los Angeles  
TSD EPA ID: CAD981402522  
TSD County: Kern  
Waste Category: Other inorganic solid waste  
Disposal Method: Recycler  
Tons: .0180  
Facility County: Los Angeles

Gepaid: CAD983609645  
Contact: GUARDIAN X RAY SERVICES  
Telephone: 000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 1422 GARDENA AVE  
Mailing City,St,Zip: GLENDALE, CA 912040000  
Gen County: Los Angeles  
TSD EPA ID: CAD981402522  
TSD County: Kern  
Waste Category: Photochemicals/photoprocessing waste  
Disposal Method: Recycler  
Tons: 9213  
Facility County: Los Angeles

Gepaid: CAD983609645  
Contact: GUARDIAN X RAY SERVICES

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

GUARDIAN X RAY SERVICES (Continued)

1000586971

Telephone: 000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 1422 GARDENA AVE  
Mailing City,St,Zip: GLENDALE, CA 912040000  
Gen County: Los Angeles  
TSD EPA ID: CAD881402522  
TSD County: Kern  
Waste Category: Metal sludge - Alkaline solution (pH <UN> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)

Disposal Method: Recycler  
Tons: .0525  
Facility County: Los Angeles

Gepaid: CAD983609645  
Contact: GUARDIAN X RAY SERVICES  
Telephone: 000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 1422 GARDENA AVE  
Mailing City,St,Zip: GLENDALE, CA 912040000  
Gen County: Los Angeles  
TSD EPA ID: CAD980883177  
TSD County: Kern  
Waste Category: Unspecified oil-containing waste  
Disposal Method: Recycler  
Tons: 1.4595  
Facility County: Los Angeles

Gepaid: CAD983609645  
Contact: GUARDIAN X RAY SERVICES  
Telephone: 000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 1422 GARDENA AVE  
Mailing City,St,Zip: GLENDALE, CA 912040000  
Gen County: Los Angeles  
TSD EPA ID: CAD0970308993  
TSD County: Los Angeles  
Waste Category: Aqueous solution with less than 10% total organic residues  
Disposal Method: Recycler  
Tons: 6255  
Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access 4 additional CA_HAZNET record(s) in the EDR Site Report.

SLIC:

Region: STATE  
Global Id: SL603799120  
Assigned Name: SLICSITE  
Lead Agency Contact: CURT CHARMLEY  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: 113.5199  
Responsible Party: UNKNOWN

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s)      EDR ID Number  
 Site                      EPA ID Number

**GUARDIAN X RAY SERVICES (Continued)**                      1000506971

Recent Dth:                      Not reported  
 Substance Released:              VOC  
 Facility Status:                      Reopen Previously Closed Case

WIP:  
 Region:                      4  
 File Number:                      113.5199  
 File Status:                      Backlog  
 Staff:                      UNIDENTIFIED  
 Facility Suite:                      Not reported

**D24**      **BECK QUALITY SERVICES**                      WIP      S106769310  
**SE**      **1425 GARDENA**                                      N/A  
**< 1/8**      **GLENDALE, CA 91204**

227 ft.      **Site 6 of 13 in cluster D**

Relative:  
 Higher      WIP:  
                     Region:                      4  
 Actual:  
 445 ft.      File Number:                      113.0188  
                     File Status:                      Historical  
                     Staff:                      MH  
                     Facility Suite:                      8

**D25**      **HAKRA INC.**                                              WIP      S106769775  
**SE**      **1425 GARDENA**                                      N/A  
**< 1/8**      **GLENDALE, CA 91204**

227 ft.      **Site 7 of 13 in cluster D**

Relative:  
 Higher      WIP:  
                     Region:                      4  
 Actual:  
 445 ft.      File Number:                      113.5187  
                     File Status:                      Historical  
                     Staff:                      UNIDENTIFIED  
                     Facility Suite:                      9

**D26**      **ROBERT MILLARD**                                      WIP      S106769770  
**SE**      **1435 GARDENA**                                      N/A  
**< 1/8**      **GLENDALE, CA 91204**

255 ft.      **Site 6 of 13 in cluster D**

Relative:  
 Higher      WIP:  
                     Region:                      4  
 Actual:  
 445 ft.      File Number:                      113.5181  
                     File Status:                      Historical  
                     Staff:                      UNIDENTIFIED  
                     Facility Suite:                      10

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s)      EDR ID Number  
 Site                      EPA ID Number

**D27**      **DOUG PARKER STUDIO**                                      WIP      S106769771  
**SE**      **1435 GARDENA**                                      N/A  
**< 1/8**      **GLENDALE, CA 91204**

255 ft.      **Site 9 of 13 in cluster D**

Relative:  
 Higher      WIP:  
                     Region:                      4  
 Actual:  
 445 ft.      File Number:                      113.5182  
                     File Status:                      Historical  
                     Staff:                      UNIDENTIFIED  
                     Facility Suite:                      11

**D28**      **A.M.P.**                                                      WIP      S106769774  
**SE**      **1441 GARDENA**                                      N/A  
**< 1/8**      **GLENDALE, CA 91204**

275 ft.      **Site 10 of 13 in cluster D**

Relative:  
 Higher      WIP:  
                     Region:                      4  
 Actual:  
 445 ft.      File Number:                      113.5186  
                     File Status:                      Historical  
                     Staff:                      UNIDENTIFIED  
                     Facility Suite:                      3

**D29**      **SNIDER & SNIDER**                                      WIP      S106769772  
**SE**      **1441 GARDENA AVE**                                      N/A  
**< 1/8**      **GLENDALE, CA 91204**

275 ft.      **Site 11 of 13 in cluster D**

Relative:  
 Higher      WIP:  
                     Region:                      4  
 Actual:  
 445 ft.      File Number:                      113.5184  
                     File Status:                      Historical  
                     Staff:                      JG  
                     Facility Suite:                      5

**D30**      **LIGHTING SUPPLIES**                                      WIP      S106769773  
**SE**      **1441 GARDENA**                                      N/A  
**< 1/8**      **GLENDALE, CA 91204**

275 ft.      **Site 12 of 13 in cluster D**

Relative:  
 Higher      WIP:  
                     Region:                      4  
 Actual:  
 445 ft.      File Number:                      113.5185  
                     File Status:                      Historical  
                     Staff:                      UNIDENTIFIED  
                     Facility Suite:                      4

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Dalabese(s)      EDR ID Number  
 EPA ID Number

D31      GREG BIAN      WIP      S106769776  
 SE      1441 GARDENA      N/A  
 < 1/8      GLENDALE, CA 91204  
 275 ft.

Site 13 of 13 in cluster D

Relative:  
 Higher      WIP:  
                 Region:      4  
 Actual:      File Number:      113.5191  
 445 ft.      File Status:      Historical  
                 Staff:      UNIDENTIFIED  
                 Facility Suite:      Not reported

E32      DAUGHERTY J E      EDR Historical Auto Stations      1009013877  
 ENE      410 W LOS FELIZ RD      N/A  
 < 1/8      GLENDALE, CA

Site 2 of 2 in cluster E

Relative:  
 Higher      EDR Historical Auto Stations:  
                 Name:      DAUGHERTY J E  
                 Year:      1930  
                 Type:      AUTOMOBILE REPAIRING

Actual:  
 449 ft.      Name:      DAUGHERTY J E  
                 Year:      1930  
                 Type:      AUTOMOBILE REPAIRING

F33      WESTWAY ELECTRIC      WIP      S106769166  
 SSE      1501 RAILROAD      N/A  
 < 1/8      GLENDALE, CA 91204

Site 1 of 4 in cluster F

Relative:  
 Lower      WIP:  
                 Region:      4  
 Actual:      File Number:      112.0393  
 443 ft.      File Status:      Historical  
                 Staff:      UNIDENTIFIED  
                 Facility Suite:      Not reported

F34      KENCO CONSTRUCTION      WIP      S106769167  
 SSE      1504 RAILROAD      N/A  
 < 1/8      GLENDALE, CA 91204  
 349 ft.

Site 2 of 4 in cluster F

Relative:  
 Lower      WIP:  
                 Region:      4  
 Actual:      File Number:      112.0394  
 443 ft.      File Status:      Historical  
                 Staff:      UNIDENTIFIED  
                 Facility Suite:      Not reported

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Dalabese(s)      EDR ID Number  
 EPA ID Number

G35      BARTELS E J      EDR Historical Auto Stations      1009077760  
 SW      2888 LOS FELIZ BLVD      N/A  
 < 1/8      LOS ANGELES, CA

Site 1 of 5 in cluster G

Relative:  
 Lower      EDR Historical Auto Stations:  
                 Name:      RIBLE DIETRICH  
                 Year:      1924  
                 Type:      AUTOMOBILE SERVICE STATIONS

Actual:  
 433 ft.      Name:      BARTELS E J  
                 Year:      1929  
                 Type:      GASOLINE AND OIL SERVICE STATION

G38      FRANCISCAN PROMENADE      RCRA-SQG      1000308453  
 SW      2901 LOS FELIZ BLVD      FINDS      CAD097042634  
 < 1/8      LOS ANGELES, CA 90039      SLIC  
 365 ft.      CA FID UST  
                 HIST UST  
                 SWEEPS UST

Site 2 of 5 in cluster G

Relative:  
 Lower      RCRAInfo:  
                 Owner:      NOT REQUIRED  
                                 (415) 555-1212  
                 EPA ID:      CAD097042634  
                 Contact:      Not reported

Classification:      Small Quantity Generator  
 TSDF Activities:      Not reported

Violation Status:      Violations exist

Regulation Violated:      Not reported  
 Area of Violation:      GENERATOR-GENERAL REQUIREMENTS  
 Date Violation Determined:      08/05/1994  
 Actual Date Achieved Compliance:      Not reported

Enforcement Action:      WRITTEN INFORMAL  
 Enforcement Action Date:      08/08/1994  
 Penalty Type:      Not reported

There are 1 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection	GENERATOR-GENERAL REQUIREMENTS	

FINDS:  
 Other Pertinent Environmental Activity Identified at Site

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.

SLIC:  
 Region:      STATE  
 Global Id:      SLT43137135

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

FRANCISCAN PROMENADE (Continued)

1000308453

Assigned Name: SLICSITE  
Lead Agency Contact: DTSC  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: 0247  
Responsible Party: Not reported  
Recent Dlr: Not reported  
Substance Released: Not reported  
Facility Status: Not reported

SLIC:

Region: 4  
Facility Status: Not reported  
SLIC: 0247  
Substance: TPH  
Staff: Department of Toxic Substances Control

CA FID UST:

Facility ID: 15007739  
Regulated By: UTKNI  
Regulated ID: Not reported  
Corfese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 2136633361  
Mail To: Not reported  
Mailing Address: 2901 LOS FELIZ BLVD  
Mailing Address 2: Not reported  
Mailing City,St,Zip: LOS ANGELES 900390000  
Contact: Not reported  
Contact Phone: Not reported  
DUNS Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Inactive

HIST UST:

Region: STATE  
Facility ID: 00000034299  
Tank Num: 008  
Container Num: 08  
Year Installed: Not reported  
Tank Capacity: 00000400  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region: STATE

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

FRANCISCAN PROMENADE (Continued)

1000308453

Facility ID: 00000034299  
Tank Num: 009  
Container Num: 09  
Year Installed: Not reported  
Tank Capacity: 00003000  
Facility Type: Other  
Other Type: CERAMIC MFG  
Total Tanks: 0021  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region:

STATE  
Facility ID: 00000034299  
Tank Num: 010  
Container Num: 010  
Year Installed: 1985  
Tank Capacity: 00001600  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region:

STATE  
Facility ID: 00000034299  
Tank Num: 011  
Container Num: 011  
Year Installed: 1985  
Tank Capacity: 00001600  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region:

STATE

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

FRANCISCAN PROMENADE (Continued)

1000308453

Facility ID: 0000034299  
Tank Num: 012  
Container Num: 012  
Year Installed: 1985  
Tank Capacity: 00001600  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region: STATE  
Facility ID: 0000034299  
Tank Num: 013  
Container Num: 013  
Year Installed: Not reported  
Tank Capacity: 00000700  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region: STATE  
Facility ID: 0000034299  
Tank Num: 014  
Container Num: 014  
Year Installed: Not reported  
Tank Capacity: 00000700  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region: STATE

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

FRANCISCAN PROMENADE (Continued)

1000308453

Facility ID: 0000034299  
Tank Num: 015  
Container Num: 015  
Year Installed: Not reported  
Tank Capacity: 00000700  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region: STATE  
Facility ID: 0000034299  
Tank Num: 015  
Container Num: 016  
Year Installed: Not reported  
Tank Capacity: 00000900  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region: STATE  
Facility ID: 0000034299  
Tank Num: 017  
Container Num: 017  
Year Installed: Not reported  
Tank Capacity: 00000500  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region: STATE



Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

FRANCISCAN PROMENADE (Continued)

1000308453

Facility ID: 00000034299  
Tank Num: 018  
Container Num: 018  
Year Installed: Not reported  
Tank Capacity: 00000100  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region: STATE  
Facility ID: 00000034299  
Tank Num: 019  
Container Num: 019  
Year Installed: Not reported  
Tank Capacity: 00001900  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region: STATE  
Facility ID: 00000034299  
Tank Num: 020  
Container Num: 020  
Year Installed: Not reported  
Tank Capacity: 00000100  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region: STATE

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

FRANCISCAN PROMENADE (Continued)

1000308453

Facility ID: 00000034299  
Tank Num: 021  
Container Num: 021  
Year Installed: Not reported  
Tank Capacity: 00001050  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region: STATE  
Facility ID: 00000034299  
Tank Num: 001  
Container Num: 01  
Year Installed: Not reported  
Tank Capacity: 00010000  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region: STATE  
Facility ID: 00000034299  
Tank Num: 002  
Container Num: 02  
Year Installed: Not reported  
Tank Capacity: 00000000  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region: STATE

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Datebase(s)  
EPA ID Number

EDR ID Number  
EPA ID Number

FRANCISCAN PROMENADE (Continued)

1000308453

Facility ID: 0000034298  
Tank Num: 003  
Container Num: 03  
Year Installed: 1869  
Tank Capacity: 00012000  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region: STATE  
Facility ID: 0000034299  
Tank Num: 004  
Container Num: 04  
Year Installed: Not reported  
Tank Capacity: 00032000  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region: STATE  
Facility ID: 0000034299  
Tank Num: 005  
Container Num: 05  
Year Installed: Not reported  
Tank Capacity: 00001400  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region: STATE

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Datebase(s)  
EPA ID Number

EDR ID Number  
EPA ID Number

FRANCISCAN PROMENADE (Continued)

1000308453

Facility ID: 0000034299  
Tank Num: 006  
Container Num: 06  
Year Installed: Not reported  
Tank Capacity: 00004000  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

Region: STATE  
Facility ID: 0000034299  
Tank Num: 007  
Container Num: 07  
Year Installed: Not reported  
Tank Capacity: 00001600  
Facility Type: Other  
Other Type: CERAMIC MFG.  
Total Tanks: 0021  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual, None  
Contact Name: A.L. STEIN  
Telephone: 2136633361  
Owner Name: FRANCISCAN CERAMICS, INC.  
Owner Address: 2901 LOS FELIZ BLVD.  
Owner City,St,Zip: LOS ANGELES, CA 90039

SWEEPS UST:

Status: Not reported  
Comp Number: 1973  
Number: Not reported  
Board Of Equalization: 44-012109  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-001973-000001  
Actv Date: Not reported  
Capacity: 10000  
Tank Use: M.V. FUEL  
Sig: PRODUCT  
Content: DIESEL  
Number Of Tanks: 21

Status: Not reported  
Comp Number: 1973

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

FRANCISCAN PROMENADE (Continued)

1000308453

Number: Not reported  
Board Of Equalization: 44-012109  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-001973-000002  
Actv Date: Not reported  
Capacity: Not reported  
Tank Use: M.V. FUEL  
Sig: PRODUCT  
Content: REG UNLEADED  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 1973  
Number: Not reported  
Board Of Equalization: 44-012109  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-001973-000003  
Actv Date: Not reported  
Capacity: 12000  
Tank Use: M.V. FUEL  
Sig: PRODUCT  
Content: REG UNLEADED  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 1973  
Number: Not reported  
Board Of Equalization: 44-012109  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-001973-000004  
Actv Date: Not reported  
Capacity: 32000  
Tank Use: CHEMICAL  
Sig: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 1973  
Number: Not reported  
Board Of Equalization: 44-012109  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

FRANCISCAN PROMENADE (Continued)

1000308453

Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-001973-000005  
Actv Date: Not reported  
Capacity: 1400  
Tank Use: CHEMICAL  
Sig: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 1973  
Number: Not reported  
Board Of Equalization: 44-012109  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-001973-000006  
Actv Date: Not reported  
Capacity: 4000  
Tank Use: CHEMICAL  
Sig: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 1973  
Number: Not reported  
Board Of Equalization: 44-012109  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-001973-000007  
Actv Date: Not reported  
Capacity: 1600  
Tank Use: CHEMICAL  
Sig: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 1973  
Number: Not reported  
Board Of Equalization: 44-012109  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-001973-000008  
Actv Date: Not reported  
Capacity: 400  
Tank Use: CHEMICAL  
Sig: PRODUCT

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Databases) EDR ID Number  
EPA ID Number

FRANCISCAN PROMENADE (Continued)

1000306453

Content: UNKNOWN  
Number Of Tanks: Not reported  
  
Status: Not reported  
Comp Number: 1973  
Number: Not reported  
Board Of Equalization: 44-012109  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-001973-000009  
Actv Date: Not reported  
Capacity: 3000  
Tank Use: CHEMICAL  
Slg: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 1973  
Number: Not reported  
Board Of Equalization: 44-012109  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-001973-000010  
Actv Date: Not reported  
Capacity: 1600  
Tank Use: CHEMICAL  
Slg: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 1973  
Number: Not reported  
Board Of Equalization: 44-012109  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-001973-000011  
Actv Date: Not reported  
Capacity: 1600  
Tank Use: CHEMICAL  
Slg: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 1973  
Number: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Databases) EDR ID Number  
EPA ID Number

FRANCISCAN PROMENADE (Continued)

1000306453

Board Of Equalization: 44-012109  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-001973-000012  
Actv Date: Not reported  
Capacity: 1600  
Tank Use: CHEMICAL  
Slg: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 1973  
Number: Not reported  
Board Of Equalization: 44-012109  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-001973-000013  
Actv Date: Not reported  
Capacity: 700  
Tank Use: CHEMICAL  
Slg: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 1973  
Number: Not reported  
Board Of Equalization: 44-012109  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-001973-000014  
Actv Date: Not reported  
Capacity: 700  
Tank Use: CHEMICAL  
Slg: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 1973  
Number: Not reported  
Board Of Equalization: 44-012109  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

FRANCISCAN PROMENADE (Continued)

1000308453

Swrcb Tank Id: 19-050-001973-000015  
 Actv Date: Not reported  
 Capacity: 700  
 Tank Use: CHEMICAL  
 Slg: PRODUCT  
 Content: UNKNOWN  
 Number Of Tanks: Not reported

Status: Not reported  
 Comp Number: 1973  
 Number: Not reported  
 Board Of Equalization: 44-012109  
 Ref Date: Not reported  
 Act Date: Not reported  
 Created Date: Not reported  
 Tank Status: Not reported  
 Owner Tank Id: Not reported  
 Swrcb Tank Id: 19-050-001973-000016  
 Actv Date: Not reported  
 Capacity: 600  
 Tank Use: CHEMICAL  
 Slg: PRODUCT  
 Content: UNKNOWN  
 Number Of Tanks: Not reported

Status: Not reported  
 Comp Number: 1973  
 Number: Not reported  
 Board Of Equalization: 44-012109  
 Ref Date: Not reported  
 Act Date: Not reported  
 Created Date: Not reported  
 Tank Status: Not reported  
 Owner Tank Id: Not reported  
 Swrcb Tank Id: 19-050-001973-000017  
 Actv Date: Not reported  
 Capacity: 500  
 Tank Use: CHEMICAL  
 Slg: PRODUCT  
 Content: UNKNOWN  
 Number Of Tanks: Not reported

Status: Not reported  
 Comp Number: 1973  
 Number: Not reported  
 Board Of Equalization: 44-012109  
 Ref Date: Not reported  
 Act Date: Not reported  
 Created Date: Not reported  
 Tank Status: Not reported  
 Owner Tank Id: Not reported  
 Swrcb Tank Id: 19-050-001973-000018  
 Actv Date: Not reported  
 Capacity: 100  
 Tank Use: CHEMICAL  
 Slg: PRODUCT  
 Content: UNKNOWN

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

FRANCISCAN PROMENADE (Continued)

1000308453

Number Of Tanks: Not reported

Status: Not reported  
 Comp Number: 1973  
 Number: Not reported  
 Board Of Equalization: 44-012109  
 Ref Date: Not reported  
 Act Date: Not reported  
 Created Date: Not reported  
 Tank Status: Not reported  
 Owner Tank Id: Not reported  
 Swrcb Tank Id: 19-050-001973-000019  
 Actv Date: Not reported  
 Capacity: 1900  
 Tank Use: CHEMICAL  
 Slg: PRODUCT  
 Content: UNKNOWN  
 Number Of Tanks: Not reported

Status: Not reported  
 Comp Number: 1973  
 Number: Not reported  
 Board Of Equalization: 44-012109  
 Ref Date: Not reported  
 Act Date: Not reported  
 Created Date: Not reported  
 Tank Status: Not reported  
 Owner Tank Id: Not reported  
 Swrcb Tank Id: 19-050-001973-000020  
 Actv Date: Not reported  
 Capacity: 100  
 Tank Use: CHEMICAL  
 Slg: PRODUCT  
 Content: UNKNOWN  
 Number Of Tanks: Not reported

Status: Not reported  
 Comp Number: 1973  
 Number: Not reported  
 Board Of Equalization: 44-012109  
 Ref Date: Not reported  
 Act Date: Not reported  
 Created Date: Not reported  
 Tank Status: Not reported  
 Owner Tank Id: Not reported  
 Swrcb Tank Id: 19-050-001973-000021  
 Actv Date: Not reported  
 Capacity: 1050  
 Tank Use: CHEMICAL  
 Slg: PRODUCT  
 Content: UNKNOWN  
 Number Of Tanks: Not reported

Map ID Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

F37 MODERN TYPE PRINTING HAZNET S103978132  
 SSE 1511 RAILROAD RD N/A  
 < 1/8 GLENDALE, CA 91204  
 373 ft.

Relative: Site 3 of 4 in cluster F  
 Lower HAZNET:  
 Gepaid: CAL920426240  
 Contact: KAYPEKIAN KRIKOR  
 Telephone: 8182443642  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 1511 RAILROAD ST  
 Mailing City,St,Zip: GLENDALE, CA 912042717  
 Gen County: Los Angeles  
 TSD EPA ID: CAT000613976  
 TSD County: Orange  
 Waste Category: Photochemicals/photoprocessing waste  
 Disposal Method: Transfer Station  
 Tons: 1.2927  
 Facility County: Los Angeles

Gepaid: CAL920426240  
 Contact: KAYPEKIAN KRIKOR  
 Telephone: 8182443642  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 1511 RAILROAD ST  
 Mailing City,St,Zip: GLENDALE, CA 912042717  
 Gen County: Los Angeles  
 TSD EPA ID: CAT000613976  
 TSD County: Orange  
 Waste Category: Photochemicals/photoprocessing waste  
 Disposal Method: Transfer Station  
 Tons: .2502  
 Facility County: Los Angeles

Gepaid: CAL920426240  
 Contact: KAYPEKIAN KRIKOR  
 Telephone: 8182443642  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 1511 RAILROAD ST  
 Mailing City,St,Zip: GLENDALE, CA 912042717  
 Gen County: Los Angeles  
 TSD EPA ID: CAT000613976  
 TSD County: Orange  
 Waste Category: Photochemicals/photoprocessing waste  
 Disposal Method: Transfer Station  
 Tons: 5880  
 Facility County: Los Angeles

Gepaid: CAL920426240  
 Contact: KAYPEKIAN KRIKOR  
 Telephone: 8182443642  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 1511 RAILROAD ST  
 Mailing City,St,Zip: GLENDALE, CA 912042717

Map ID Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

MODERN TYPE PRINTING (Continued) S103978132  
 Gen County: Los Angeles  
 TSD EPA ID: Not reported  
 TSD County: Los Angeles  
 Waste Category: Aqueous solution with less than 10% total organic residues  
 Disposal Method: Transfer Station  
 Tons: 0.47  
 Facility County: Not reported

Gepaid: CAL920426240  
 Contact: KAYPEKIAN KRIKOR  
 Telephone: 8182443642  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 1511 RAILROAD ST  
 Mailing City,St,Zip: GLENDALE, CA 912042717  
 Gen County: Los Angeles  
 TSD EPA ID: Not reported  
 TSD County: Fresno  
 Waste Category: Photochemicals/photoprocessing waste  
 Disposal Method: Recycler  
 Tons: 0.44  
 Facility County: Not reported

[Click this hyperlink](#) while viewing on your computer to access  
 1 additional CA_HAZNET record(s) in the EDR Site Report.

---

G38 ECHO SOUND WIP S106769368  
 SW 2900 LOS FELIZ BLVD N/A  
 < 1/8 LOS ANGELES, CA 90039  
 375 ft.

Relative: Site 3 of 5 in cluster G  
 Lower WIP:  
 Region: 4  
 Actual: File Number: 113.0274  
 433 ft. File Status: Historical  
 Staff: UNIDENTIFIED  
 Facility Suite: Not reported

---

G39 FRANCISCAN CERAMICS, INC. HAZNET S103548877  
 SW 2901 LOS FELIZ Cortese N/A  
 < 1/8 LOS ANGELES, CA 90064  
 375 ft.

Relative: Site 4 of 5 in cluster G  
 Lower HAZNET:  
 Gepaid: CAL000178298  
 Actual: Contact: ASSET ACQUISITIONS  
 433 ft. Telephone: 000900000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 8075 W 3RD ST STE 530  
 Mailing City,St,Zip: LOS ANGELES, CA 900484316  
 Gen County: Los Angeles  
 TSD EPA ID: CADD00633164  
 TSD County: Imperial

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

FRANCISCAN CERAMICS, INC. (Continued)

S103649877

Waste Category: Contaminated soil from site clean-ups  
 Disposal Method: Not reported  
 Tons: 25.2840  
 Facility County: Los Angeles

Gepaid: CAL000178296  
 Contact: ASSET ACQUISITIONS  
 Telephone: 000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 8075 W 3RD ST STE 530  
 Mailing City,St,Zip: LOS ANGELES, CA 900484318  
 Gen County: Los Angeles  
 TSD EPA ID: CAD000633164  
 TSD County: Imperial

Waste Category: Contaminated soil from site clean-ups  
 Disposal Method: Disposal, Land Fill  
 Tons: 272.2244  
 Facility County: Los Angeles

Gepaid: CAL000178296  
 Contact: ASSET ACQUISITIONS  
 Telephone: 000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 8075 W 3RD ST STE 530  
 Mailing City,St,Zip: LOS ANGELES, CA 900484318  
 Gen County: Los Angeles  
 TSD EPA ID: CAD000633164  
 TSD County: Imperial  
 Waste Category: Contaminated soil from site clean-ups  
 Disposal Method: Disposal, Land Fill  
 Tons: 12.8420  
 Facility County: Los Angeles

Cortese:  
 Region: CORTESE  
 Facility Addr2: Not reported

G40  
 SW  
 < 1/8  
 375 ft.

FRANCISCAN CERAMICS, INC.  
 2891 LOS FELIZ BOULEVARD  
 LOS ANGELES, CA 90039

CA BOND EXP. PLAN \$100933285  
 RESPONSE N/A  
 DEED  
 ENVIROSTOR  
 HIST Cal-Sites

Relative:  
 Lower Site 5 of 5 in cluster G

CA BOND EXP. PLAN:

Responsible Party: RESPONSIBLE PARTY-LEAD SITE CLEANUP WORKPLAN

Actual:  
 433 ft.  
 Project Revenue Source Company: Not reported  
 Project Revenue Source Addr: Not reported  
 Project Revenue Source City,St,Zip: Not reported  
 Project Revenue Source Desc:

Franciscan Ceramics and predecessor companies are responsible for the contamination. Shurgin Development Company (potential site developer) has entered into an enforceable agreement with DHS for oversight and monitoring of cleanup efforts. DHS has budgeted \$70,000 for direct costs related to the project. The responsible parties will pay all costs associated with cleanup. This site was a ceramic manufacturing facility for at least 70 years. One hundred thousand cubic yards of ceramic waste and sludges were disposed of

Site Description:

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

FRANCISCAN CERAMICS, INC. (Continued)

S100833285

Hazardous Waste Desc: onsite to a depth of 20 feet.  
 Threat To Public Health & Env: There are elevated levels of zinc, cadmium and lead in soils at the site. The surrounding area is largely commercial and residential. Surface soil contamination could potentially migrate offsite in the form of airborne particulates. Under certain conditions, metals may migrate vertically, potentially contaminating ground water.  
 Site Activity Status: Shurgin Development Company (a potential site developer and non-responsible party) has completed site characterization and a RAP has been adopted by DHS. One of the PRPs has filed a Writ of Mandate in the L.A. Superior Court, challenging the recommended remediation. The RAP implementation may be delayed due to the above.

RESPONSE:

Facility ID: 19320112  
 Site Type: State Response  
 Site Type Detail: State Response or NPL  
 Acres: 45 acres  
 National Priorities List: NO  
 Cleanup Oversight Agencies: SMBRP  
 Lead Agency: SMBRP  
 Lead Agency Description: Not reported  
 Project Manager: JESSY FIERRO  
 Supervisor: Jull Obome  
 Division Branch: So Cal - Glendale  
 Site Code: 300065  
 Assembly: 43  
 Senate: 21  
 Status: Certified / Operation & Maintenance  
 Status Date: 1994-12-30 00:00:00  
 Restricted Use: YES  
 Funding: Responsible Party  
 Latitude: 34.1265611111111  
 Longitude: -118.262933333333  
 Atlas Name: 300065  
 P31015  
 CAD097042634  
 5594-006-020  
 FRANCISCAN PROMENADE  
 INTERNATIONAL PIPE AND CERAMICS  
 Parcel "B" - capped parking area south of New World Church  
 19320112  
 Alias Type: Alternate Name  
 Alternate Name  
 APN  
 APN  
 Project Code (Site Code)  
 PCode  
 EPA Identification Number  
 Envirostor ID Number  
 Parcel "B" - capped parking area south of New World Church, 5594-006-020  
 Not reported  
 APN Description:  
 APN Description:  
 Not reported  
 Comments: DTSC commented on 5-yr. Review Report submitted by RP. The Groundwater monitoring schedule has been modified to require sampling on a biennial basis. The next sampling event is scheduled for May 2002. DTSC entered into a settlement agreement with Asset Acquisition to recover response costs incurred by DTSC in overseeing grading

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

EDR ID Number  
EPA ID Number

FRANCISCAN CERAMICS, INC. (Continued)

S100833285

operations at the former Franciscan Ceramics site where residual contamination was discovered. The Deed Restrictions (Covenant Pertaining to Monitoring Wells and Barn) were recorded by the Los Angeles County Registrar - Recorder/County Clerk. Facility identified: Los Angeles Chamber of Commerce Dir 1963-1984. Manufacturing of dinnerware, clay and ceramic products. The Department entered into a Consent Agreement and Consent Order with the respective RPs. An IS&E and RAD issued this date. Remedial Action Certification is completed.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: 5 Year Review Reports  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: * Final Remedial Action  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Completion Report  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Action Plan  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation / Feasibility Study  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Participation Plan / Community Relations Plan  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Cost Recovery Settlements/Decrease  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Deed Restriction / Land Use Covenant  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Consent Order  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Unilateral Order (I/SE, RAO, EPA AO)  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Deed Restriction / Land Use Covenant  
Completed Date: / /  
Completed Area Name: PROJECT WIDE

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

EDR ID Number  
EPA ID Number

FRANCISCAN CERAMICS, INC. (Continued)

S100833285

Completed Sub Area Name: Not reported  
Completed Document Type: * Order  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Consent Order  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Discovery  
Completed Date: / /  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Design  
Completed Date: / /  
Confirmed: 30013, 30108, 30594  
Confirmed Description: Lead  
Confirmed Description: Cadmium and compounds  
Confirmed Description: Zinc  
Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: Long Term Monitoring Report  
Future Due Date: 2006  
Media Affected: 30013, 30108, 30594  
Media Affected Desc: Not reported  
Media Affected Desc: Not reported  
Media Affected Desc: Not reported  
Management Required: REM, ASP, DAY, ELD, HOS, LUC, MON, EX, GW, NOWN, NDAM, NUSE, NDEV, NSUB, SCH, FOOD, RE  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Management Required Desc: Not reported  
Potential: SOIL  
Potential Description: 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  
Past/Use: MANUFACTURING - CERAMICS

DEED:  
Area: PROJECT WIDE  
Sub Area: Not reported



Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

FRANCISCAN CERAMICS, INC. (Continued)

S100833285

Site Type: STATE RESPONSE  
 Status: CERTIFIED / OPERATION & MAINTENANCE  
 Deed Date(s): 08/09/91  
 Area: PROJECT WIDE  
 Sub Area: Not reported  
 Site Type: STATE RESPONSE  
 Status: CERTIFIED / OPERATION & MAINTENANCE  
 Deed Date(s): 02/15/95

ENVIROSTOR:

Site Type: State Response  
 Site Type Detailed: State Response or NPL  
 Acres: 45 acres  
 NPL: NO  
 Regulatory Agencies: SMBRP  
 Lead Agency: SMBRP  
 Program Manager: JESSY FIERRRO  
 Supervisor: Juli Osborne  
 Division Branch: So Cal - Glendale  
 Facility ID: 19320112  
 Site Code: 300065  
 Assembly: 43  
 Senate: 21  
 Special Program: Not reported  
 Status: Certified / Operation & Maintenance  
 Status Date: 1994-12-30 00:00:00  
 Restricted Use: YES  
 Funding: Responsible Party  
 Latitude: 34.12856111111111  
 Longitude: -118.26293333333333  
 Alias Name:  
 300065  
 F31015  
 CAD097042634  
 5594-006-020  
 FRANCISCAN PROMENADE  
 INTERNATIONAL PIPE AND CERAMICS  
 Parcel "B" - capped parking area south of New World Church  
 19320112  
 Alias Type:  
 Alternate Name  
 Alternate Name  
 APN  
 APN  
 Project Code (Site Code)  
 PCode  
 EPA Identification Number  
 Envirostor ID Number  
 APN: Parcel "B" - capped parking area south of New World Church, 5594-006-020  
 APN Description: Not reported  
 APN Description: Not reported  
 Comments: DTSC commented on 5-yr. Review Report submitted by RP. The Groundwater monitoring schedule has been modified to require sampling on a biennial basis. The next sampling event is scheduled for May 2002. DTSC entered into a settlement agreement with Asset Acquisition to recover response costs incurred by DTSC in overseeing grading operations at the former Franciscan Ceramics site where residual contamination was discovered. The Deed Restrictions (Covenant

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

FRANCISCAN CERAMICS, INC. (Continued)

S100833285

Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: 5 Year Review Reports  
 Completed Date: / /  
 Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: * Final Remedial Action  
 Completed Date: / /  
 Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Removal Action Completion Report  
 Completed Date: / /  
 Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Remedial Action Plan  
 Completed Date: / /  
 Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Remedial Investigation / Feasibility Study  
 Completed Date: / /  
 Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Public Participation Plan / Community Relations Plan  
 Completed Date: / /  
 Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Cost Recovery Settlements/Decreases  
 Completed Date: / /  
 Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Deed Restriction / Land Use Covenant  
 Completed Date: / /  
 Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Certification  
 Completed Date: / /  
 Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Consent Order  
 Completed Date: / /  
 Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Unilateral Order (USE, RAO, EPA AO)  
 Completed Date: / /  
 Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Deed Restriction / Land Use Covenant  
 Completed Date: / /  
 Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: * Order

Pertaining to Monitoring Wells and Berm) were recorded by the Los Angeles County Registrar - Recorder/County Clerk. Facility Identified: Los Angeles Chamber of Commerce Dir 1963-1964. Manufacturing of dinnerware, clay and ceramic products. The Department entered into a Consent Agreement and Consent Order with the respective RPs. An IS&E and RAO issued this date. Remedial Action Certification is completed.



Map ID Direction Distance Distance (ft.) Elevation Site Database(s) EDR ID Number EPA ID Number

MAP FINDINGS

COLOUR GROW (Continued) S103958137  
 Mailing Name: Not reported  
 Mailing Address: 440 W CYPRESS  
 Mailing City, St, Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: CAD000988252  
 TSD County: Los Angeles  
 Waste Category: Unspecified solvent mixture Waste  
 Disposal Method: Transfer Station  
 Tons: 2.0641  
 Facility County: Los Angeles

H43 HUGH DEAN & CO., INC. WIP S106769702  
 North 438 W CYPRESS ST N/A  
 < 1/8 GLENDALE, CA 91204  
 386 ft.  
 Site 3 of 10 in cluster H  
 Relative: Higher  
 WIP:  
 Region: 4  
 Actual: File Number: 113.0942  
 450 ft. File Status: Historical  
 Staff: RNEVAREZ  
 Facility Suite: Not reported

F44 ERNST HOTZ CO. WIP S106769169  
 SSE 1516 RAILROAD N/A  
 < 1/8 GLENDALE, CA 91204  
 398 ft.  
 Site 4 of 4 in cluster F  
 Relative: Lower  
 WIP:  
 Region: 4  
 Actual: File Number: 112.0396  
 442 ft. File Status: Historical  
 Staff: UNIDENTIFIED  
 Facility Suite: Not reported

H45 VEGE-KURL WIP S107257216  
 North 430 W CYPRESS ST N/A  
 < 1/8 GLENDALE, CA 91204  
 420 ft.  
 Site 4 of 10 in cluster H  
 Relative: Higher  
 WIP:  
 Region: 4  
 Actual: File Number: 113.0943  
 450 ft. File Status: Historical  
 Staff: RNEVAREZ  
 Facility Suite: Not reported

Map ID Direction Distance Distance (ft.) Elevation Site Database(s) EDR ID Number EPA ID Number

MAP FINDINGS

148 PACIFIC STATES BOX & BASKET CO HIST UST U001566937  
 NNW 1295 LOS ANGELES ST N/A  
 < 1/8 GLENDALE, CA 91204  
 436 ft.

Site 1 of 6 in cluster I  
 Relative: Higher  
 HIST UST:  
 Region: STATE  
 Actual: Facility ID: 0000046931  
 447 ft. Tank Num: 001  
 Container Num: 1  
 Year Installed: 1979  
 Tank Capacity: 00002000  
 Facility Type: Other  
 Other Type: MFR. CO.  
 Total Tanks: 0003  
 Tank Used for: PRODUCT  
 Type of Fuel: DIESEL  
 Tank Construction: Not reported  
 Leak Detection: Visual  
 Contact Name: Not reported  
 Telephone: 8182446688  
 Owner Name: PACIFIC STATES BOX & BASKET CO  
 Owner Address: 1295 SOUTH LOS ANGELES STREET  
 Owner City, St, Zip: GLENDALE, CA 91204

Region: STATE  
 Facility ID: 0000046931  
 Tank Num: 002  
 Container Num: TVO (2)  
 Year Installed: Not reported  
 Tank Capacity: 00005000  
 Facility Type: Other  
 Other Type: MFR. CO.  
 Total Tanks: 0003  
 Tank Used for: PRODUCT  
 Type of Fuel: UNLEADED  
 Tank Construction: Not reported  
 Leak Detection: Visual  
 Contact Name: Not reported  
 Telephone: 8182446688  
 Owner Name: PACIFIC STATES BOX & BASKET CO  
 Owner Address: 1295 SOUTH LOS ANGELES STREET  
 Owner City, St, Zip: GLENDALE, CA 91204

Region: STATE  
 Facility ID: 0000046931  
 Tank Num: 003  
 Container Num: (3)  
 Year Installed: Not reported  
 Tank Capacity: 00000500  
 Facility Type: Other  
 Other Type: MFR. CO.  
 Total Tanks: 0003  
 Tank Used for: PRODUCT  
 Type of Fuel: PREMIUM  
 Tank Construction: Not reported  
 Leak Detection: Visual  
 Contact Name: Not reported

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

PACIFIC STATES BOX & BASKET CO (Continued) U001966937  
 Telephone: 8182448688  
 Owner Name: PACIFIC STATES BOX & BASKET CO  
 Owner Address: 1295 SOUTH LOS ANGELES STREET  
 Owner City,St,Zip: GLENDALE, CA 91204

I47 PACIFIC STATE & BOX HAZNET S108216114  
 NNW 1295 LOS ANGELES ST N/A  
 < 1/8 GLENDALE, CA 91204  
 436 ft.

Site 2 of 6 in cluster I  
 Relative: HAZNET:  
 Higher Gepaid: CAC002591866  
 Actual: Contact: LEILA BRION  
 447 ft. Telephone: 8182448688  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 1295 LOS ANGELES ST  
 Mailing City,St,Zip: GLENDALE, CA 91004  
 Gen County: Los Angeles  
 TSD EPA ID: CAT080013352  
 TSD County: Los Angeles  
 Waste Category: Tank bottom waste  
 Disposal Method: Recycler  
 Tons: 1.04  
 Facility County: Not reported

J48 ALCER LIGHTING CO., INC EMI S106925586  
 NE 4111 SAN FERNAND RD N/A  
 < 1/8 GLENDALE, CA 91204  
 439 ft.

Site 1 of 10 in cluster J  
 Relative: EMI:  
 Higher Year: 1990  
 Actual: Carbon Monoxide Emissions Tons/Yr: 19  
 451 ft. Air Basin: SC  
 Facility ID: 47099  
 Air District Name: SC  
 SIC Code: 5063  
 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 & Smaller Tons/Yr: 0

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

J49 LIGHTING SPECIALTIES INC RCRA-SQG 1000244284  
 NE 4111 SAN FERNANDO RD FINDS CAD067740431  
 < 1/8 GLENDALE, CA 91204  
 439 ft.

Site 2 of 10 in cluster J  
 Relative: RCRAInfo:  
 Higher Owner: FRED GEIGER  
 Actual: (415) 555-1212  
 451 ft. EPA ID: CAD067740431  
 Contact: Not reported  
 Classification: Small Quantity Generator  
 TSD Activities: Not reported  
 Violation Status: No violations found

FINDS:  
 Other Pertinent Environmental Activity Identified at Site  
 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.

H50 ADIN OF CALIFORNIA HAZNET S108196807  
 North 425 W CYPRESS ST N/A  
 < 1/8 GLENDALE, CA 91204  
 449 ft.

Site 5 of 10 in cluster H  
 Relative: HAZNET:  
 Higher Gepaid: CAL000205342  
 Actual: Contact: ARA ASSILIAN  
 451 ft. Telephone: 8185522531  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 425 W CYPRESS ST STE B  
 Mailing City,St,Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: CAT000813976  
 TSD County: Orange  
 Waste Category: Liquids with halogenated organic compounds > 1000 mg/l  
 Disposal Method: Transfer Station  
 Tons: 1.12  
 Facility County: Not reported

Gepaid: CAL000205342  
 Contact: ARA ASSILIAN  
 Telephone: 8185522531  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 425 W CYPRESS ST STE B  
 Mailing City,St,Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: CAT000813976  
 TSD County: Orange

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

ADIN OF CALIFORNIA (Continued)

S108196807

Waste Category: Liquids with halogenated organic compounds > 1000 mg/l  
Disposal Method: Transfer Station  
Tons: 1.12  
Facility County: Not reported

H51  
North  
< 1/8  
440 ft.

UNGER FABRIK INC  
425 W CYPRESS ST  
GLENDALE, CA 91204

HAZNET  
WIP S100876891  
N/A

Site 6 of 10 in cluster H

Relative:  
Higher

HAZNET:  
Gepaid: CAL000079744  
Contact: SNEIDER RICHARD/OBERFELD FABI  
Telephone: 8182401308  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 425 W CYPRESS ST  
Mailing City,St,Zip: GLENDALE, CA 912042401  
Gen County: Los Angeles  
TSD EPA ID: CAD087030993  
TSD County: Los Angeles  
Waste Category: Liquids with pH <LN> 2  
Disposal Method: Treatment, Tank  
Tons: 11.6967  
Facility County: Los Angeles

WIP:  
Region: 4  
File Number: 113.0940  
File Status: Historical  
Staff: RNEVAREZ  
Facility Suite: Not reported

H52  
North  
< 1/8  
440 ft.

ADIN OF CALIFORNIA  
425 WEST CYPRESS STREET  
GLENDALE, CA 91204

HAZNET S105092182  
N/A

Site 7 of 10 in cluster H

Relative:  
Higher

HAZNET:  
Gepaid: CAL000205342  
Contact: RAR ASSILIAN  
Telephone: 8185522531  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 425 WEST CYPRESS STREET  
Mailing City,St,Zip: GLENDALE, CA 912040000  
Gen County: Los Angeles  
TSD EPA ID: CAT000613976  
TSD County: Orange  
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l  
Disposal Method: Transfer Station  
Tons: 0.792  
Facility County: Los Angeles

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

ADIN OF CALIFORNIA (Continued)

S105092182

Gepaid: CAL000205342  
Contact: ARA ASSILIAN  
Telephone: 8185522531  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 425 WEST CYPRESS STREET  
Mailing City,St,Zip: GLENDALE, CA 912040000  
Gen County: Los Angeles  
TSD EPA ID: CAT000613976  
TSD County: Los Angeles  
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l  
Disposal Method: Transfer Station  
Tons: 0.45  
Facility County: Los Angeles

Gepaid: CAL000205342  
Contact: ARA ASSILIAN  
Telephone: 8185522531  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 425 WEST CYPRESS STREET  
Mailing City,St,Zip: GLENDALE, CA 912040000  
Gen County: Los Angeles  
TSD EPA ID: Not reported  
TSD County: Orange  
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l  
Disposal Method: Transfer Station  
Tons: 0.84  
Facility County: Not reported

Gepaid: CAL000205342  
Contact: ARA ASSILIAN  
Telephone: 8185522531  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 425 WEST CYPRESS STREET  
Mailing City,St,Zip: GLENDALE, CA 912040000  
Gen County: Los Angeles  
TSD EPA ID: Not reported  
TSD County: Orange  
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l  
Disposal Method: Transfer Station  
Tons: 0.48  
Facility County: Not reported

[Click this hyperlink](#) while viewing on your computer to access  
-1 additional CA_HAZNET record(s) in the EDR Site Report.

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Site Database(s) EDR ID Number  
 EPA ID Number

H53 ADIN INC FINDS 1008907022  
 North 425 CYPRESS 110022921668  
 < 1/8 GLENDALE, CA 91204

Relative: Site 8 of 10 in cluster H  
 Higher

FINDS:  
 Other Pertinent Environmental Activity Identified at Site

Actual: RCRAInfo is a national information system that supports the Resource  
 451 ft. 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.

H54 ADIN INC RCRA-SQG 1008402481  
 North 425 CYPRESS CAR000165865  
 < 1/8 GLENDALE, CA 91204

Relative: Site 9 of 10 in cluster H  
 Higher

RCRAInfo:  
 Owner: ARA ASSILIAN  
 EPA ID: CAR000185969  
 Contact: ARA ASSILIAN  
 818-552-2531  
 Classification: Small Quantity Generator  
 TSD Activities: Not reported  
 Violation Status: No violations found

J55 ALGER LIGHTING INC. WIP S106769451  
 ENE 4105 SAN FERNANDO RD N/A  
 < 1/8 GLENDALE, CA 91204

Relative: Site 3 of 10 in cluster J  
 Higher

WIP:  
 Region: 4  
 File Number: 113.0467  
 File Status: Historical  
 Staff: MH  
 Facility Suite: Not reported

J56 S J AUTO SUPPLY RCRA-SQG 1000595478  
 ENE 4101 SAN FERNANDO RD FINDS CAD983594151  
 < 1/8 GLENDALE, CA 91204 HAZNET  
 441 ft. WIP

Relative: Site 4 of 10 in cluster J  
 Higher

Actual: 451 ft.

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Site Database(s) EDR ID Number  
 EPA ID Number

S J AUTO SUPPLY (Continued) 1000595478

RCRAInfo:  
 Owner: OGANAES BALIAN  
 (415) 555-1212  
 EPA ID: CAD983594151  
 Contact: OGANES BALIAN  
 (818) 244-5888

Classification: Small Quantity Generator  
 TSD Activities: Not reported  
 Violation Status: No violations found

FINDS:  
 Other Pertinent Environmental Activity Identified at Site

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.

HAZNET:  
 Cepad: CAD983594151  
 Contact: OGANAES BALIAN  
 Telephone: 4155551212  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 4101 SAN FERNANDO RD  
 Mailing City,St,Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: CAD099452708  
 TSD County: Los Angeles  
 Waste Category: Waste oil and mixed oil  
 Disposal Method: Recycler  
 Tons: 4587  
 Facility County: Los Angeles

WIP:  
 Region: 4  
 File Number: 113.0466  
 File Status: Historical  
 Staff: MH  
 Facility Suite: Not reported

J57 PELLEGRINI GARAGE EDR Historical Auto Stations 1009015769  
 ENE 4101 SAN FERNANDO RD N/A  
 < 1/8 GLENDALE, CA  
 441 ft.

Relative: Site 5 of 10 in cluster J  
 Higher

EDR Historical Auto Stations:  
 Name: PELLEGRINI PHILLIP  
 Year: 1940  
 451 ft. Type: AUTO REPAIRING

Map ID Direction  
 Distance  
 Distance (ft.)  
 Elevation Site Database(s) EDR ID Number  
 EPA ID Number

MAP FINDINGS

**PELLEGRINI GARAGE (Continued)** EDR ID Number: 1009015789  
 Name: PELLEGRINI GARAGE  
 Year: 1945  
 Type: AUTO REPAIRING AND GARAGES  
 Name: PELLEGRINI GARAGE  
 Year: 1945  
 Type: AUTO REPAIRING AND GARAGES

**J58 ENE** LIGHTING SPECIALTIES INC. WIP S106769755  
 < 1/8 4109 SAN FERNANDO RD N/A  
 GLENDALE, CA 91204  
 441 ft. Site 6 of 10 in cluster J  
 Relative: WIP:  
 Higher Region: 4  
 Actual: File Number: 113.1018  
 451 ft. File Status: Historical  
 Staff: MH  
 Facility Suite: Not reported

**J59 NE** VECE KURL SLIC S106484905  
 < 1/8 4115 SAN FERNANDO RD WIP N/A  
 GLENDALE, CA 91204  
 442 ft. Site 7 of 10 in cluster J  
 Relative: SLIC:  
 Higher Region: STATE  
 Global Id: SL603799125  
 Assigned Name: SLIC SITE  
 Lead Agency Contact: CURT CHARMLEY  
 Lead Agency: LOS ANGELES RWQCB (REGION 4)  
 Lead Agency Case Number: 113.5489  
 Responsible Party: RALPH SMITH  
 Recent Dlr: Not reported  
 Substance Released: VOC  
 Facility Status: Reopen Previously Closed Case  
 WIP:  
 Region: 4  
 File Number: 113.5489  
 File Status: Backlog  
 Staff: UNIDENTIFIED  
 Facility Suite: Not reported

Map ID Direction  
 Distance  
 Distance (ft.)  
 Elevation Site Database(s) EDR ID Number  
 EPA ID Number

MAP FINDINGS

**K6D SE** GLENDALE PROSTHETICS WIP S106769789  
 < 1/8 1500 GARDENA N/A  
 GLENDALE, CA 91204  
 444 ft. Site 1 of 6 in cluster K  
 Relative: WIP:  
 Higher Region: 4  
 Actual: File Number: 113.5198  
 444 ft. File Status: Historical  
 Staff: MH  
 Facility Suite: Not reported

**J61 NE** FIRE EXTINGUISHERS WIP S106769841  
 < 1/8 4119 SAN FERNANDO RD N/A  
 GLENDALE, CA 91204  
 447 ft. Site 8 of 10 in cluster J  
 Relative: WIP:  
 Higher Region: 4  
 Actual: File Number: 113.5470  
 451 ft. File Status: Historical  
 Staff: MH  
 Facility Suite: Not reported

**H62 North** LOERA PAVING HAZNET S102056299  
 < 1/8 422 W CYPRESS ST LOS ANGELES CO. HMS N/A  
 GLENDALE, CA 91204  
 448 ft. Site 10 of 10 in cluster H  
 Relative: HAZNET:  
 Higher Geopid: CAC001187504  
 Actual: Contact: LOERA PAVING  
 451 ft. Telephone: 8182464848  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 422 W CYPRESS ST  
 Mailing City, St, Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: CAT080013352  
 TSD County: Los Angeles  
 Waste Category: Oil/water separation sludge  
 Disposal Method: Recycler  
 Tone: 7714  
 Facility County: Los Angeles

LOS ANGELES CO. HMS:  
 Region: LA  
 Facility Id: 010616-010564  
 Facility Status: Removed  
 Area: 3D  
 Permit Number: 0002023T  
 Permit Status: Removed  
 Facility Type: TO

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

K63 SE < 1/8 450 ft. SCREEN MOBIL 1502 GARDENA GLENDALE, CA 91204  
 Site 2 of 8 in cluster K  
 Relative: Higher  
 WIP: Region: 4  
 Actual: 444 ft. File Number: 113.5197  
 File Status: Historical  
 Staff: MH  
 Facility Suite: Not reported  
 Database(s) EDR ID Number EPA ID Number  
 WIP S106769779 N/A

J64 NE < 1/8 451 ft. HUDSON S L 4116 SAN FERNANDO RD GLENDALE, CA  
 Site 9 of 10 in cluster J  
 Relative: Higher  
 EDR Historical Auto Stations:  
 Name: CORNISH J V  
 Year: 1940  
 Type: AUTO SERVICE STATIONS GAS AND OIL  
 Name: KENNY E E  
 Year: 1940  
 Type: AUTO REPAIRING  
 Name: MILLER THOS  
 Year: 1945  
 Type: AUTO SERVICE STATIONS GASOLINE AND OIL  
 Name: HUDSON S L  
 Year: 1945  
 Type: AUTO REPAIRING AND GARAGES  
 Name: MILLER THOS  
 Year: 1945  
 Type: AUTO SERVICE STATIONS GASOLINE AND OIL  
 Name: HUDSON S L  
 Year: 1945  
 Type: AUTO REPAIRING AND GARAGES  
 EDR Historical Auto Stations 1009014745 N/A

J65 NE < 1/8 451 ft. JOHN T. BILL & CO, INC. 4116 SAN FERNANDO RD GLENDALE, CA 91204  
 Site 10 of 10 in cluster J  
 Relative: Higher  
 WIP: Region: 4  
 Actual: 451 ft. File Number: 113.0468  
 File Status: Historical  
 Staff: MH  
 Facility Suite: Not reported  
 Database(s) EDR ID Number EPA ID Number  
 WIP S106769452 N/A

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

K66 SE < 1/8 457 ft. KENCO CONSTRUCTION, INC. 1505 GARDENA AVENUE GLENDALE, CA 91204  
 Site 3 of 6 in cluster K  
 Relative: Higher  
 HAZNET: Capped: CAC000933520  
 Contact: CLYDE VAN IWARDEN, CEO  
 Telephone: 8185075900  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 1505 GARDENA AVENUE  
 Mailing City, St, Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: CAT080013352  
 TSD County: Los Angeles  
 Waste Category: Tank bottom waste  
 Disposal Method: Recycler  
 Tons: 2085  
 Facility County: Los Angeles  
 WIP: Region: 4  
 Actual: 444 ft. File Number: 113.5192  
 File Status: Historical  
 Staff: UNIDENTIFIED  
 Facility Suite: Not reported  
 Database(s) EDR ID Number EPA ID Number  
 HAZNET WIP S102798482 N/A

K67 SE < 1/8 463 ft. NEWS TYPE SVC INC 1506 GARDENA AVE GLENDALE, CA 91209  
 Site 4 of 6 in cluster K  
 Relative: Higher  
 RCRAInfo: Owner: NOT REQUIRED  
 (415) 555-1212  
 Actual: 444 ft. EPA ID: CAD981690928  
 Contact: Not reported  
 Classification: Small Quantity Generator  
 TSD Activities: Not reported  
 Violation Status: No violations found  
 RCRA-SQG 1000376205  
 FINDS CAD981690928  
 HAZNET EMI WIP

FINDS:  
 Other Pertinent Environmental Activity Identified at Site

California - Hazardous Waste Tracking System - Dalamart

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.



Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

**NEWS TYPE SVC INC (Continued)**

1000378205

**HAZNET:**

Gepaid: CAD981690928  
 Contact: Not reported  
 Telephone: 000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: PO BOX 1809  
 Mailing City,St,Zip: GLENDALE, CA 912090000  
 Gen County: Los Angeles  
 TSD EPA ID: CAD981402522  
 TSD County: Kern  
 Waste Category: Photochemicals/photoprocessing waste  
 Disposal Method: Recycler  
 Tons: .0208  
 Facility County: Los Angeles

Gepaid: CAD981690928  
 Contact: Not reported  
 Telephone: 000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: PO BOX 1809  
 Mailing City,St,Zip: GLENDALE, CA 912090000  
 Gen County: Los Angeles  
 TSD EPA ID: CAD981402522  
 TSD County: Kern  
 Waste Category: Photochemicals/photoprocessing waste  
 Disposal Method: Recycler  
 Tons: .0416  
 Facility County: Los Angeles

Gepaid: CAD981690928  
 Contact: Not reported  
 Telephone: 000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: PO BOX 1809  
 Mailing City,St,Zip: GLENDALE, CA 912090000  
 Gen County: Los Angeles  
 TSD EPA ID: CAD981402522  
 TSD County: Kern  
 Waste Category: Photochemicals/photoprocessing waste  
 Disposal Method: Recycler  
 Tons: .0208  
 Facility County: Los Angeles

**EMI:**

Year: 1987  
 Carbon Monoxide Emissions Tons/Yr: 19  
 Air Basin: SC  
 Facility ID: 39736  
 Air District Name: SC  
 SIC Code: 2711  
 Air District Name: SOUTH COAST AQMD  
 Community Health Air Pollution Info System: Not reported  
 Consolidated Emission Reporting Rule: Not reported

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

**NEWS TYPE SVC INC (Continued)**

1000378205

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 & Smllr Tons/Yr: 0

Year: 2002  
 Carbon Monoxide Emissions Tons/Yr: 19  
 Air Basin: SC  
 Facility ID: 39736  
 Air District Name: SC  
 SIC Code: 2711  
 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: 2  
 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 & Smllr Tons/Yr: 0

Year: 2003  
 Carbon Monoxide Emissions Tons/Yr: 19  
 Air Basin: SC  
 Facility ID: 39736  
 Air District Name: SC  
 SIC Code: 2711  
 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: 2  
 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 & Smllr Tons/Yr: 0

Year: 2004  
 Carbon Monoxide Emissions Tons/Yr: 19  
 Air Basin: SC  
 Facility ID: 39736  
 Air District Name: SC  
 SIC Code: 2711  
 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: 1.788  
 Reactive Organic Gases Tons/Yr: 1.78  
 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

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

**NEWS TYPE SVC INC (Continued)** 1000378205  
 Part Matter 10 Micrometers & Smltr Tons/Yr: 0  
 WIP:  
 Region: 4  
 File Number: 113.5196  
 File Status: Historical  
 Staff: UNIDENTIFIED  
 Facility Suite: Not reported

**L68** **INTERNATIONAL AUTO BODY** EDR Historical Auto Stations 1009013439  
**ENE** 4019 SAN FERNANDO RD N/A  
 < 1/8 GLENDALE, CA  
 468 ft.

Site 1 of 11 in cluster L

Relative:  
 Higher  
 Actual:  
 451 ft.

EDR Historical Auto Stations:

Name:	P & S MOTORS
Year:	1955
Type:	AUTOMOBILE REPAIRING
Name:	P & S MOTORS
Year:	1955
Type:	AUTOMOBILE REPAIRING
Name:	P&S MOTORS INC
Year:	1950
Type:	AUTOMOBILE REPAIRING
Name:	P&S MOTORS INC
Year:	1960
Type:	AUTOMOBILE REPAIRING
Name:	P & S MOTORS INC
Year:	1957
Type:	AUTOMOBILE REPAIRING
Name:	P & S MOTORS INC
Year:	1957
Type:	AUTOMOBILE GARAGES
Name:	INTERNATIONAL AUTO BODY
Year:	1972
Type:	AUTOMOBILE REPAIRING
Name:	INTERNATIONAL AUTO BODY
Year:	1972
Type:	AUTOMOBILE REPAIRING

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

**L69** **PALACE INTERNATIONAL FURNITURE** WIP S106759838  
**ENE** 4013 SAN FERNANDO RD N/A  
 < 1/8 GLENDALE, CA 91204  
 471 ft.  
 Site 2 of 11 in cluster L  
 Relative:  
 Higher  
 WIP:  
 Region: 4  
 File Number: 113.5464  
 Actual:  
 451 ft. File Status: Historical  
 Staff: MH  
 Facility Suite: Not reported

**L70** **DOMANI SELECT FURNITURE** WIP S106758840  
**ENE** 4019 SAN FERNANDO RD N/A  
 < 1/8 GLENDALE, CA 91204  
 471 ft.

Site 3 of 11 in cluster L

Relative:  
 Higher  
 WIP:  
 Region: 4  
 File Number: 113.5465  
 Actual:  
 451 ft. File Status: Historical  
 Staff: MH  
 Facility Suite: Not reported

**L71** **LOS FELIZ FORD** EDR Historical Auto Stations 1009014646  
**ENE** 4011 SAN FERNANDO RD N/A  
 < 1/8 GLENDALE, CA  
 472 ft.

Site 4 of 11 in cluster L

Relative:  
 Higher  
 EDR Historical Auto Stations:

Name:	CLASSEN TOM
Year:	1940
Type:	AUTO SERVICE STATIONS GAS AND OIL
Name:	CLASSEN TOM
Year:	1940
Type:	AUTO SERVICE STATIONS GAS AND OIL
Name:	LOS FELIZ FORD
Year:	1972
Type:	AUTOMOBILE REPAIRING
Name:	LOS FELIZ FORD
Year:	1972
Type:	AUTOMOBILE REPAIRING

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s)  
 Datebase(s)

EDR ID Number  
 EPA ID Number

L72  
 ENE  
 < 1/8  
 472 R.

HAZNET  
 S103971330  
 N/A

Relative:  
 Higher

Actual:  
 451 ft.

Site 5 of 11 in cluster L

HAZNET:

Gepaid: CAL000014637  
 Contact: J & D FOREIGN SVS  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 4011 SAN FERNANDO RD  
 Mailing City,St,Zip: GLENDALE, CA 912042729  
 Gen County: Los Angeles  
 TSD EPA ID: CAD099452708  
 TSD County: Los Angeles  
 Waste Category: Waste oil and mixed oil  
 Disposal Method: Recycler  
 Tons: 2.8564  
 Facility County: Los Angeles

Gepaid: CAL000014637  
 Contact: J & D FOREIGN SVS  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 4011 SAN FERNANDO RD  
 Mailing City,St,Zip: GLENDALE, CA 912042729  
 Gen County: Los Angeles  
 TSD EPA ID: CAD089446710  
 TSD County: Los Angeles  
 Waste Category: Aqueous solution with 10% or more total organic residues  
 Disposal Method: Transfer Station  
 Tons: .4586  
 Facility County: Los Angeles

Gepaid: CAL000014637  
 Contact: J & D FOREIGN SVS  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 4011 SAN FERNANDO RD  
 Mailing City,St,Zip: GLENDALE, CA 912042729  
 Gen County: Los Angeles  
 TSD EPA ID: CAL000113451  
 TSD County: Los Angeles  
 Waste Category: Unspecified organic liquid mixture  
 Disposal Method: Transfer Station  
 Tons: .2502  
 Facility County: Los Angeles

Gepaid: CAL000014637  
 Contact: J & D FOREIGN SVS  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 4011 SAN FERNANDO RD  
 Mailing City,St,Zip: GLENDALE, CA 912042729

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s)  
 Datebase(s)

EDR ID Number  
 EPA ID Number

J&D FOREIGN SERVICE (Continued)

S103971330

Gen County: Los Angeles  
 TSD EPA ID: CAD009452657  
 TSD County: San Mateo  
 Waste Category: Unspecified organic liquid mixture  
 Disposal Method: Recycler  
 Tons: 2293  
 Facility County: Los Angeles

Gepaid: CAL000014637  
 Contact: J & D FOREIGN SVS  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 4011 SAN FERNANDO RD  
 Mailing City,St,Zip: GLENDALE, CA 912042729  
 Gen County: Los Angeles  
 TSD EPA ID: CAL000113451  
 TSD County: Los Angeles  
 Waste Category: Unspecified organic liquid mixture  
 Disposal Method: Recycler  
 Tons: .5421  
 Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access  
 14 additional CA_HAZNET record(s) in the EDR Site Report.

L73  
 ENE  
 < 1/8  
 472 R.

J&D FOREIGN AUTO SVC  
 4011 SAN FERNANDO RD  
 GLENDALE, CA 91204

HAZNET  
 WIP  
 S100937586  
 N/A

Relative:  
 Higher

Actual:  
 451 ft.

Site 6 of 11 in cluster L

HAZNET:

Gepaid: CAL000008392  
 Contact: THISPRAKIT ADITHAN  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 4011 SAN FERNANDO RD  
 Mailing City,St,Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: CAD099452706  
 TSD County: Los Angeles  
 Waste Category: Oil/water separation sludge  
 Disposal Method: Recycler  
 Tons: 2.9190  
 Facility County: Los Angeles

WIP:

Region: 4  
 File Number: 113.0463  
 File Status: Historical  
 Staff: MH  
 Facility Suite: Not reported

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

L74  
 ENE  
 < 1/8  
 474 ft.

PRINTEFEX  
 401 W LOS FELIZ, #C  
 GLENDALE, CA 91204

Site 7 of 11 in cluster L

Relative:  
 Higher

Actual:  
 451 ft.

HAZNET:  
 Gepaid: CAL000174741  
 Contact: RUBEN OVANESPOUR  
 Telephone: 0  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 401 W LOS FELIZ RD # C  
 Mailing City,St,Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: CAD008252405  
 TSD County: Los Angeles  
 Waste Category: Unspecified oil-containing waste  
 Disposal Method: Recycler  
 Tons: 0.22  
 Facility County: Los Angeles

Gepaid: CAL000174741  
 Contact: RUBEN OVANESPOUR  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 401 W LOS FELIZ RD # C  
 Mailing City,St,Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: CAD681402522  
 TSD County: Kern  
 Waste Category: Photochemicals/photoprocessing waste  
 Disposal Method: Recycler  
 Tons: 5879  
 Facility County: Los Angeles

Gepaid: CAL000174741  
 Contact: RUBEN OVANESPOUR  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 401 W LOS FELIZ RD # C  
 Mailing City,St,Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: CAD981429673  
 TSD County: Marin  
 Waste Category: Photochemicals/photoprocessing waste  
 Disposal Method: Recycler  
 Tons: 2293  
 Facility County: Los Angeles

Gepaid: CAL000174741  
 Contact: RUBEN OVANESPOUR  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 401 W LOS FELIZ RD # C  
 Mailing City,St,Zip: GLENDALE, CA 912040000

HAZNET S103882678  
 N/A

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

PRINTEFEX (Continued)

Gen County: Los Angeles  
 TSD EPA ID: CAD981402522  
 TSD County: Kern  
 Waste Category: Photochemicals/photoprocessing waste  
 Disposal Method: Recycler  
 Tons: 2293  
 Facility County: Los Angeles

Gepaid: CAL000174741  
 Contact: RUBEN OVANESPOUR  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 401 W LOS FELIZ RD # C  
 Mailing City,St,Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: CAL000121946  
 TSD County: Marin  
 Waste Category: Photochemicals/photoprocessing waste  
 Disposal Method: Recycler  
 Tons: 4586  
 Facility County: Los Angeles

[Click this hypertext](#) while viewing on your computer to access 3 additional CA_HAZNET record(s) in the EDR Site Report.

L75  
 ENE  
 < 1/8  
 474 ft.

MONTOOTH HARRY  
 409 W LOS FELIZ RD  
 GLENDALE, CA

Site 8 of 11 in cluster L

Relative:  
 Higher

Actual:  
 451 ft.

EDR Historical Auto Stations S1009016031  
 N/A

EDR Historical Auto Stations:  
 Name: ASSOCIATED SERVICE STATION  
 Year: 1940  
 Type: AUTO SERVICE STATIONS GAS AND OIL

Name: MONTOOTH HARRY  
 Year: 1945  
 Type: AUTO SERVICE STATIONS GASOLINE AND OIL

Name: MONTOOTH HARRY  
 Year: 1945  
 Type: AUTO SERVICE STATIONS GASOLINE AND OIL

L76  
 ENE  
 < 1/8  
 474 ft.

ANDY GALLANIN  
 4000 SAN FERNANDO RD  
 GLENDALE, CA 91204

Site 9 of 11 in cluster L

Relative:  
 Higher

Actual:  
 451 ft.

HAZNET S103657399  
 N/A

HAZNET:  
 Gepaid: CAC001141824  
 Contact: ANDY GALLANIN  
 Telephone: 0000000000  
 Facility Addr2: Not reported

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**ANDY GALLANIN (Continued)** S403657399

Mailing Name: Not reported  
 Mailing Address: 3039 AMIGOS DRIVE  
 Mailing City,St,Zip: BURBANK, CA 915040000  
 Gen County: Los Angeles  
 TSD EPA ID: AZC951206114  
 TSD County: 99  
 Waste Category: Other inorganic solid waste  
 Disposal Method: Disposal, Land Fill  
 Tons: 1.6856  
 Facility County: Los Angeles

Gepaid: CAC001141624  
 Contact: ANDY GALLANIN  
 Telephone: 000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 3039 AMIGOS DRIVE  
 Mailing City,St,Zip: BURBANK, CA 915040000  
 Gen County: Los Angeles  
 TSD EPA ID: AZR00002428  
 TSD County: 0  
 Waste Category: Other Inorganic solid waste  
 Disposal Method: Not reported  
 Tons: 1.6856  
 Facility County: Los Angeles

**L77 ZOBANAKY G W** EDR Historical Auto Stations 1009048416  
**ENE** 4000 SAN FERNANDO RD N/A  
**< 1/8** GLENDALE, CA  
**474 ft.**

Site 10 of 11 in cluster L

Relative: Higher  
 EDR Historical Auto Stations:  
 Name: ZOBANAKY G W  
 Year: 1940  
 Actual: 451 ft. Type: AUTO SERVICE STATIONS GAS AND OIL

**L78 ANDY'S BURGER, YANG HYUN CHANG** EMI S106825963  
**ENE** 4000 SAN FERNANDO ROAD N/A  
**< 1/8** GLENDALE, CA 91204  
**474 ft.**

Site 11 of 11 in cluster L

Relative: Higher  
 EMI:  
 Year: 1990  
 Carbon Monoxide Emissions Tons/Yr: 19  
 Air Basin: SC  
 Facility ID: 67140  
 Air District Name: SC  
 SIC Code: 5812  
 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

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**ANDY'S BURGER, YANG HYUN CHANG (Continued)** S106825963

NOx - Oxides of Nitrogen Tons/Yr: 0  
 SOx - Oxides of Sulphur Tons/Yr: 0  
 Particulate Matter Tons/Yr: 0  
 Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

---

**K79 RUIZ INDUSTRIES** WIP S106769777  
**SE** 1513 GARDENA N/A  
**< 1/8** GLENDALE, CA 91204  
**479 ft.**

Site 5 of 6 in cluster K

Relative: Higher  
 WIP:  
 Region: 4  
 Actual: 444 ft. File Number: 113.513  
 File Status: Historical  
 Staff: UNIDENTIFIED  
 Facility Suite: Not reported

**180 AMBRIT INDUSTRIES** HAZNET S100854663  
**NNW** 1288 LOS ANGELES ST WIP N/A  
**< 1/8** GLENDALE, CA 91204  
**482 ft.**

Site 3 of 6 in cluster I

Relative: Higher  
 HAZNET:  
 Gepaid: CAL000046273  
 Actual: 447 ft. Contact: AMBRIT INDUSTRIES  
 Telephone: 8182431224  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 432 MAGNOLIA AVE  
 Mailing City,St,Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: AZD049318009  
 TSD County: 99  
 Waste Category: Oil/water separation sludge  
 Disposal Method: Transfer Station  
 Tons: 4.5870  
 Facility County: Los Angeles

Gepaid: CAL000046273  
 Contact: AMBRIT INDUSTRIES  
 Telephone: 8182431224  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 432 MAGNOLIA AVE  
 Mailing City,St,Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: AZD049318009  
 TSD County: 99  
 Waste Category: Unspecified oil-containing waste  
 Disposal Method: Transfer Station  
 Tons: 1000  
 Facility County: Los Angeles

Gepaid: CAL000046273

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

AMBRIT INDUSTRIES (Continued)

S100854683

Contact: AMBRIT INDUSTRIES  
 Telephone: 8182431224  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 432 MAGNOLIA AVE  
 Mailing City,St,Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: AZD049318009  
 TSD County: 99  
 Waste Category: Oil/water separation sludge  
 Disposal Method: Transfer Station  
 Tons: 8.2586  
 Facility County: Los Angeles

Gepaid: CAL00046273  
 Contact: AMBRIT INDUSTRIES  
 Telephone: 8182431224  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 432 MAGNOLIA AVE  
 Mailing City,St,Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: AZD049318009  
 TSD County: 99  
 Waste Category: Waste oil and mixed oil  
 Disposal Method: Transfer Station  
 Tons: .2085  
 Facility County: Los Angeles

Gepaid: CAL00046273  
 Contact: AMBRIT INDUSTRIES  
 Telephone: 8182431224  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 432 MAGNOLIA AVE  
 Mailing City,St,Zip: GLENDALE, CA 912040000  
 Gen County: Los Angeles  
 TSD EPA ID: AZD049318009  
 TSD County: 99  
 Waste Category: Unspecified solvent mixture Waste  
 Disposal Method: Recycler  
 Tons: .3127  
 Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access 55 additional CA_HAZNET record(s) in the EDR Site Report.

WIP:

Region: 4  
 File Number: 112.0257  
 File Status: Historical  
 Staff: UNIDENTIFIED  
 Facility Suite: Not reported

CA WDS:

Facility ID: 4 191006997

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

AMBRIT INDUSTRIES (Continued)

S100854683

Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)  
 Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.  
 NPDES Number: CAS00001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board  
 Subregion: 4  
 Facility Telephone: 3232453404  
 Facility Contact: Paul Yassu/M. Bender  
 Agency Name: AMBRIT INDUSTRIES  
 Agency Address: Not reported  
 Agency City,St,Zip: 0  
 Agency Contact: Not reported  
 Agency Telephone: Not reported  
 Agency Type: Private  
 SIC Code: 3363  
 SIC Code 2: 3364  
 Primary Waste: Stormwater Runoff  
 Primary Waste Type: Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).  
 Secondary Waste: Not reported  
 Secondary Waste Type: Not reported  
 Design Flow: 0  
 Baseline Flow: 0  
 Reclamation: No reclamation requirements associated with this facility. The facility is not a POTW.  
 POTW: Not reported  
 Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not. All nutrients without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.  
 Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

181  
 HNW  
 < 1/8  
 482 ft.

Relative:  
 Higher

Actual:  
 447 ft.

PACIFIC STATES PLASTICS  
 1291 LOS ANGELES ST  
 GLENDALE, CA 91204

Site 4 of 6 in cluster 1

WIP:  
 Region: 4  
 File Number: 112.0258  
 File Status: Historical  
 Staff: UNIDENTIFIED  
 Facility Suite: Not reported

WIP S106763105  
 N/A

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Databases) EDR ID Number  
EPA ID Number

152 AMBRIT IND INC EMI S106825737  
NNW 1288 LOS ANGELES ST. N/A  
< 1/8 GLENDALE, CA 91204

482 ft. Site 5 of 6 in cluster L

Relative:  
Higher

EMI:  
Year: 1987  
Actual: Carbon Monoxide Emissions Tons/Yr: 19  
447 ft. Air Basin: SC  
Facility ID: 23464  
Air District Name: SC  
SIC Code: 3362  
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: 1  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 3  
Part. Matter 10 Micrometers & Smaller Tons/Yr: 2

Year: 1990  
Carbon Monoxide Emissions Tons/Yr: 19  
Air Basin: SC  
Facility ID: 23464  
Air District Name: SC  
SIC Code: 3369  
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 & Smaller Tons/Yr: 0

Year: 1993  
Carbon Monoxide Emissions Tons/Yr: 19  
Air Basin: SC  
Facility ID: 23464  
Air District Name: SC  
SIC Code: 3369  
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: 1  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smaller Tons/Yr: 0

Year: 1995

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Databases) EDR ID Number  
EPA ID Number

AMBRIT IND INC (Continued) S106825737

Carbon Monoxide Emissions Tons/Yr: 19  
Air Basin: SC  
Facility ID: 23464  
Air District Name: SC  
SIC Code: 3369  
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: 1  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smaller Tons/Yr: 0

M83 VEGE-KURL WIP S106769698  
NNE 412 W CYPRESS ST N/A  
< 1/8 GLENDALE, CA 91204

489 ft.

Site 1 of 10 in cluster M

Relative:  
Higher

WIP:  
Region: 4  
Actual: File Number: 113.0938  
452 ft. File Status: Historical  
Staff: RNEVAREZ  
Facility Suite: Not reported

M84 CHMIRS S105638786  
NNE 412 WEST CYPRESS N/A  
< 1/8 GLENDALE, CA 91204

489 ft.

Site 2 of 10 in cluster M

Relative:  
Higher

CHMIRS:  
OES Incident Number: 010457  
Actual: OES notification: Not reported  
452 ft. OES Date: 10/11/1995  
OES Time: 01:27:51 PM  
Incident Date: Not reported  
Date Completed: Not reported  
Property Use: Not reported  
Agency ID Number: Not reported  
Agency Incident Number: Not reported  
Time Notified: Not reported  
Time Completed: Not reported  
Surrounding Area: Not reported  
Estimated Temperature: Not reported  
Property Management: Not reported  
Special Studies 1: Not reported  
Special Studies 2: Not reported  
Special Studies 3: Not reported  
Special Studies 4: Not reported  
Special Studies 5: Not reported  
Special Studies 6: Not reported

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

(Continued)

3105638786

More Than Two Substances Involved?: Not reported  
 Resp Agency Personnel # Of Decontaminated: Not reported  
 Responding Agency Personnel # Of Injuries: Not reported  
 Responding Agency Personnel # Of Fatalities: Not reported  
 Others Number Of Decontaminated: Not reported  
 Others Number Of Injuries: Not reported  
 Others Number Of Fatalities: Not reported  
 Vehicle Make/year: Not reported  
 Vehicle License Number: Not reported  
 Vehicle State: Not reported  
 Vehicle ID Number: Not reported  
 CA/DOT/PUC/ICC Number: Not reported  
 Company Name: Not reported  
 Reporting Officer Name/ID: Not reported  
 Report Date: Not reported  
 Comments: Not reported  
 Facility Telephone: Not reported  
 Waterway Involved: YES  
 Waterway: storm drain  
 Spill Site: Not reported  
 Cleanup By: LAcc PWD/occamblue envir serv inc  
 Containment: Not reported  
 What Happened: Not reported  
 Type: CHEMICAL  
 Measure: Not reported  
 Other: Not reported  
 Date/Time: Not reported  
 Year: 1995  
 Agency: vege-kurl inc  
 Incident Date: 0700/11oct95  
 Admin Agency: Not reported  
 Amount: 250gals  
 Contained: YES  
 Site Type: IND PLT  
 E Date: Not reported  
 Substance: hair conditioner  
 Quantity Released: Not reported  
 BBLS: Not reported  
 Cups: Not reported  
 CUFT: Not reported  
 Gallons: Not reported  
 Grams: Not reported  
 Pounds: Not reported  
 Liters: Not reported  
 Ounces: Not reported  
 Pints: Not reported  
 Quarts: Not reported  
 Sheen: Not reported  
 Tons: Not reported  
 Unknown: Not reported  
 Description: container spilled off forklift  
 Evacuations: NO  
 Number of Injuries: NO  
 Number of Fatalities: NO  
 Description: Not reported

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

**K85 PRUDENTIAL** WIP S106789776  
**SE 1321 GARDENA** N/A  
**< 1/8 GLENDALE, CA 91204**  
 501 ft.  
 Site 6 of 6 in cluster K  
 Relative: WIP:  
 Lower Region: 4  
 Actual: File Number: 113.5195  
 443 ft. File Status: Historical  
 Staff: JC  
 Facility Suite: Not reported

---

**M86 CD GRILL AUTO** WIP S106769453  
**NNE 4200 SAN FERNANDO RD** N/A  
**< 1/8 GLENDALE, CA 91204**  
 544 ft.  
 Site 3 of 10 in cluster M  
 Relative: WIP:  
 Higher Region: 4  
 Actual: File Number: 113.0471  
 453 ft. File Status: Historical  
 Staff: MH  
 Facility Suite: Not reported

---

**M87 MIKRON PRODUCTS** WIP S106769454  
**NNE 4205 SAN FERNANDO RD** N/A  
**< 1/8 GLENDALE, CA 91204**  
 554 ft.  
 Site 4 of 10 in cluster M  
 Relative: WIP:  
 Higher Region: 4  
 Actual: File Number: 113.0472  
 453 ft. File Status: Historical  
 Staff: MH  
 Facility Suite: Not reported

---

**M88 BELLEUVE FURNITURE** EMI S106769842  
**NNE 4210 SAN FERNANDO RD** WIP N/A  
**< 1/8 GLENDALE, CA 91204**  
 569 ft.  
 Site 5 of 10 in cluster M  
 Relative: EMI:  
 Higher Year: 1987  
 Actual: Carbon Monoxide Emissions Tons/Yr: 19  
 453 ft. Air Basin: SC  
 Facility ID: 11044  
 Air District Name: SC  
 SIC Code: 5199  
 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



Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

**MAP FINDINGS**

Database(s)  
 EPA ID Number

EDR ID Number

**BELLEUE FURNITURE (Continued)**

S106768842

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 & Smbt Tons/Yr: 0

Year: 1990  
 Carbon Monoxide Emissions Tons/Yr: 19  
 Air Basin: SC  
 Facility ID: 69558  
 Air District Name: SC  
 SIC Code: 2426  
 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 & Smaller Tons/Yr: 0

WIP:  
 Region: 4  
 File Number: 113.5473  
 File Status: Historical  
 Staff: MH  
 Facility Suite: Not reported

189  
 NNW  
 < 1/8  
 569 ft.

AMBRIT INDUSTRIES  
 1278 LOS ANGELES ST  
 GLENDALE, CA 91204  
 WIP S106769105  
 N/A

Relative:  
 Higher

Site 6 of 6 in cluster 1

WIP:  
 Region: 4  
 File Number: 112.0259  
 File Status: Historical  
 Staff: UNIDENTIFIED  
 Facility Suite: Not reported

90  
 South  
 < 1/8  
 572 ft.

PRECISION PROPERTY SERVICE  
 3940 SENECA AVE  
 LOS ANGELES, CA 90039  
 HAZNET S103982434  
 N/A

Relative:  
 Lower

HAZNET:  
 Cepaid: CAC001272960  
 Contact: PRECISION PROPERTY SERVICE  
 Telephone: 0000000000  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 14759 OXNARD ST  
 Mailing City, St, Zip: VAN NUYS, CA 914110000

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Databases(s)
GLENDALE	100622931	GENERAL TELEPHONE	401 S BRAND BLVD	91204	CA FD LST, HST LST, WIP
GLENDALE	S10640965	FREESTONE INC	401 S BRAND BLVD	91204	LOS ANGELES CO HMS, SWEEPS L
GLENDALE	S106326974	GUY SCHMIDT INC MAZDA	425 S BRAND BLVD	91204	LOS ANGELES CO HMS, SWEEPS L
GLENDALE	S106202016	CITY OF GLENDALE/REDEVELOPMENT AGE	200 S BRAND BLVD	91204	HAZNET
GLENDALE	S106207889	GLENDALE INF/INTI	612 S BRAND BLVD	91204	HAZNET
GLENDALE	S105166607	WINDSOR CLEANERS	721 S CENTRAL AVE STE D	91204	HAZNET, CLEANERS
GLENDALE	S105769697	NAVARRO ENGINEERING	4218 W CHEVY CHASE DR	91204	WIP
GLENDALE	U003941037	PACIFIC STATES BOX & BASKET CO.	JUSTIN / SAN FERNANDO RD	91204	CDL
GLENDALE	S100751986	BYSON	1295 SOUTH LOS ANGELES ST.	91204	UST
GLENDALE	S106839493	EDJUN AUTO BODY INC	14 W OF SAN FERNANDO RD 300S	91204	WMLD55WAT
GLENDALE	S106299552	HYDROMEN INC	3829 3835 SAN FERNANDO RD	91204	HAZNET
LOS ANGELES	S105939232	RALPHS GROCERY CO	4527 H SAN FERNANDO RD	90039	EMI
LOS ANGELES	1001493109	BUDJULPH VY/ISUZU	4845 / 4901 SAN FERNANDO RD	90039	EMI
LOS ANGELES	S106840287	SUNLAND CHEM & RESEARCH CORP	5438 W GLENDALE AVE	90039	PCRA-SQG, FIKOS
LOS ANGELES	S106850354	SANTA FE PACIFIC REALTY CORP	5438 W GLENDALE AVE	90039	EMI
LOS ANGELES	S103660008	CITY OF LOS ANGELES	4701 N SAN FERNANDO RD	90039	LOS ANGELES CO HMS
LOS ANGELES	S106837960	RALPHS GROCERY CO	SUNNYOCK DR PED BRIDGE OVER	90039	HAZNET
LOS ANGELES	S100176583	VACANT LOT	4845-4901 W SAN FERNANDO RD	90039	EMI
BLYTHE	S103626891	BARRY POWELL REAL ESTATE INC CO IN	249 HOBSON WAY	91204	Nbrly 65, WIP
GLENDALE			1220 / 1230 SOUTH BRAND	91204	HAZNET

## 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.

### FEDERAL RECORDS

#### NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/18/2007	Source: EPA
Date Data Arrived at EDR: 08/03/2007	Telephone: N/A
Date Made Active in Reports: 08/29/2007	Last EDR Contact: 07/31/2007
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/29/2007
	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 215-614-5416	EPA Region 7 Telephone: 913-551-7247
----------------------------------------	-----------------------------------------

EPA Region 4 Telephone 404-562-9033	EPA Region 8 Telephone: 303-312-6774
----------------------------------------	-----------------------------------------

EPA Region 5 Telephone 312-886-6686	EPA Region 9 Telephone: 415-947-4245
----------------------------------------	-----------------------------------------

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: 04/20/2007	Source: EPA
Date Data Arrived at EDR: 05/03/2007	Telephone: N/A
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 08/31/2007
Number of Days to Update: 83	Next Scheduled EDR Contact: 10/29/2007
	Data Release Frequency: Quarterly

#### 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: 04/20/2007	Source: EPA
Date Data Arrived at EDR: 05/03/2007	Telephone: N/A
Date Made Active in Reports: 08/25/2007	Last EDR Contact: 08/29/2007
Number of Days to Update: 53	Next Scheduled EDR Contact: 10/29/2007
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

#### 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	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/20/2007
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: No Update Planned

#### CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/23/2007	Source: EPA
Date Data Arrived at EDR: 06/20/2007	Telephone: 703-412-9810
Date Made Active in Reports: 08/29/2007	Last EDR Contact: 09/19/2007
Number of Days to Update: 70	Next Scheduled EDR Contact: 12/17/2007
	Data Release Frequency: Quarterly

#### CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

Date of Government Version: 06/21/2007	Source: EPA
Date Data Arrived at EDR: 07/23/2007	Telephone: 703-412-9810
Date Made Active in Reports: 08/29/2007	Last EDR Contact: 09/17/2007
Number of Days to Update: 37	Next Scheduled EDR Contact: 12/17/2007
	Data Release Frequency: Quarterly

#### CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/26/2007	Source: EPA
Date Data Arrived at EDR: 08/06/2007	Telephone: 800-424-9346
Date Made Active in Reports: 08/29/2007	Last EDR Contact: 09/04/2007
Number of Days to Update: 21	Next Scheduled EDR Contact: 12/03/2007
	Data Release Frequency: Quarterly

#### RCRA: Resource Conservation and Recovery Act Information

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site 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: 05/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: (415) 485-8895
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/04/2007
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/15/2007
	Data Release Frequency: Quarterly

### ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2006	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/24/2007	Telephone: 202-267-2180
Date Made Active in Reports: 03/12/2007	Last EDR Contact: 07/23/2007
Number of Days to Update: 47	Next Scheduled EDR Contact: 10/22/2007
	Data Release Frequency: Annually

### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 07/02/2007	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 07/16/2007	Telephone: 202-366-4555
Date Made Active in Reports: 09/18/2007	Last EDR Contact: 07/18/2007
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/15/2007
	Data Release Frequency: Annually

### 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 affect human health.

Date of Government Version: 04/20/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/26/2007	Telephone: 703-603-8505
Date Made Active in Reports: 05/25/2007	Last EDR Contact: 07/02/2007
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/01/2007
	Data Release Frequency: Varies

### US INST CONTROL: Sites with Institutional Controls

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: 04/20/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/26/2007	Telephone: 703-603-8505
Date Made Active in Reports: 05/25/2007	Last EDR Contact: 07/02/2007
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/01/2007
	Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 703-682-8801
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 08/09/2007
Number of Days to Update: 62	Next Scheduled EDR Contact: 11/05/2007
	Data Release Frequency: Semi-Annually

### 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: 12/31/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 09/20/2006	Telephone: 202-528-4285
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 08/31/2007
Number of Days to Update: 63	Next Scheduled EDR Contact: 10/01/2007
	Data Release Frequency: Varies

### US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addressed by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities—especially those without EPA Brownfields Assessment Demonstration Pilots—minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients—States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 06/20/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/09/2007	Telephone: 202-566-2777
Date Made Active in Reports: 08/29/2007	Last EDR Contact: 09/10/2007
Number of Days to Update: 51	Next Scheduled EDR Contact: 12/10/2007
	Data Release Frequency: Semi-Annually

### 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: 04/13/2007	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 07/16/2007	Telephone: Varies
Date Made Active in Reports: 08/29/2007	Last EDR Contact: 08/23/2007
Number of Days to Update: 44	Next Scheduled EDR Contact: 10/22/2007
	Data Release Frequency: Varies

### 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: 06/08/2007	Source: EPA
Date Data Arrived at EDR: 07/03/2007	Telephone: 703-418-0223
Date Made Active in Reports: 08/29/2007	Last EDR Contact: 07/02/2007
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/01/2007
	Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/08/2006	Telephone: 505-845-0011
Date Made Active in Reports: 01/29/2007	Last EDR Contact: 09/19/2007
Number of Days to Update: 82	Next Scheduled EDR Contact: 12/17/2007
	Data Release Frequency: Varies

### ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 08/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9348
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### 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: 12/31/2005	Source: EPA
Date Data Arrived at EDR: 04/27/2007	Telephone: 202-566-0250
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 09/18/2007
Number of Days to Update: 69	Next Scheduled EDR Contact: 12/17/2007
	Data Release Frequency: Annually

### 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: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 07/30/2007
Number of Days to Update: 46	Next Scheduled EDR Contact: 10/15/2007
	Data Release Frequency: Every 4 Years

### 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: 07/06/2007	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 07/20/2007	Telephone: 202-566-1667
Date Made Active in Reports: 08/18/2007	Last EDR Contact: 09/17/2007
Number of Days to Update: 60	Next Scheduled EDR Contact: 12/17/2007
	Data Release Frequency: Quarterly

### 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: 07/06/2007	Source: EPA
Date Data Arrived at EDR: 07/20/2007	Telephone: 202-566-1667
Date Made Active in Reports: 09/18/2007	Last EDR Contact: 09/17/2007
Number of Days to Update: 60	Next Scheduled EDR Contact: 12/17/2007
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 629) 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: 12/31/2005	Source: EPA
Date Data Arrived at EDR: 03/13/2007	Telephone: 202-584-4203
Date Made Active in Reports: 04/27/2007	Last EDR Contact: 07/16/2007
Number of Days to Update: 45	Next Scheduled EDR Contact: 10/15/2007
	Data Release Frequency: Annually

### 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: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 09/12/2007
Number of Days to Update: 31	Next Scheduled EDR Contact: 12/10/2007
	Data Release Frequency: Varies

### DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2007	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 05/30/2007	Telephone: 202-366-4595
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 08/29/2007
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/26/2007
	Data Release Frequency: Varies

### 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: 06/29/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/02/2007	Telephone: 202-564-5088
Date Made Active in Reports: 08/29/2007	Last EDR Contact: 06/22/2007
Number of Days to Update: 58	Next Scheduled EDR Contact: 07/16/2007
	Data Release Frequency: Quarterly

### HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 09/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 12/17/2007
	Data Release Frequency: No Update Planned

### 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.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/01/2006  
 Date Data Arrived at EDR: 01/08/2007  
 Date Made Active in Reports: 01/11/2007  
 Number of Days to Update: 3

Source: Drug Enforcement Administration  
 Telephone: 202-307-1000  
 Last EDR Contact: 06/29/2007  
 Next Scheduled EDR Contact: 09/24/2007  
 Data Release Frequency: Quarterly

### 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: 07/31/2007  
 Date Data Arrived at EDR: 08/01/2007  
 Date Made Active in Reports: 08/29/2007  
 Number of Days to Update: 28

Source: Environmental Protection Agency  
 Telephone: 202-343-8775  
 Last EDR Contact: 08/01/2007  
 Next Scheduled EDR Contact: 10/29/2007  
 Data Release Frequency: Quarterly

### 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: 03/08/2007  
 Date Data Arrived at EDR: 04/12/2007  
 Date Made Active in Reports: 05/14/2007  
 Number of Days to Update: 32

Source: Environmental Protection Agency  
 Telephone: 202-564-6023  
 Last EDR Contact: 08/20/2007  
 Next Scheduled EDR Contact: 11/19/2007  
 Data Release Frequency: Varies

### 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: 04/12/2007  
 Date Data Arrived at EDR: 08/08/2007  
 Date Made Active in Reports: 08/29/2007  
 Number of Days to Update: 82

Source: EPA  
 Telephone: 202-566-0500  
 Last EDR Contact: 08/08/2007  
 Next Scheduled EDR Contact: 11/05/2007  
 Data Release Frequency: Annually

### 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: 07/09/2007  
 Date Data Arrived at EDR: 07/24/2007  
 Date Made Active in Reports: 09/18/2007  
 Number of Days to Update: 58

Source: Nuclear Regulatory Commission  
 Telephone: 301-415-7189  
 Last EDR Contact: 07/02/2007  
 Next Scheduled EDR Contact: 10/01/2007  
 Data Release Frequency: Quarterly

### MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/09/2007  
 Date Data Arrived at EDR: 08/28/2007  
 Date Made Active in Reports: 08/28/2007  
 Number of Days to Update: 82

Source: Department of Labor, Mine Safety and Health Administration  
 Telephone: 303-231-5959  
 Last EDR Contact: 08/28/2007  
 Next Scheduled EDR Contact: 09/24/2007  
 Data Release Frequency: Semi-Annually

### 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).

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/19/2007  
 Date Data Arrived at EDR: 07/25/2007  
 Date Made Active in Reports: 09/18/2007  
 Number of Days to Update: 55

Source: EPA  
 Telephone: (415) 947-8000  
 Last EDR Contact: 07/02/2007  
 Next Scheduled EDR Contact: 12/01/2007  
 Data Release Frequency: Quarterly

### RAATS: RCRA Administrative Action Tracking System

RCRA Administrative 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 administrative 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: 04/17/1996  
 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: 08/31/2007  
 Next Scheduled EDR Contact: 12/03/2007  
 Data Release Frequency: No Update Planned

### 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 (LOG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2005  
 Date Data Arrived at EDR: 03/08/2007  
 Date Made Active in Reports: 04/13/2007  
 Number of Days to Update: 38

Source: EPA/NTIS  
 Telephone: 800-424-9346  
 Last EDR Contact: 09/12/2007  
 Next Scheduled EDR Contact: 12/10/2007  
 Data Release Frequency: Biennially

### USGS WATER WELLS: National Water Information System (NWIS)

This database consists of well records in the United States. Available site descriptive information includes well location information (latitude and longitude, well depth, site use, water use, and aquifer).

Date of Government Version: 03/25/2005  
 Date Data Arrived at EDR: 03/25/2005  
 Date Made Active in Reports: N/A  
 Number of Days to Update: 0

Source: USGS  
 Telephone: N/A  
 Last EDR Contact: 03/25/2005  
 Next Scheduled EDR Contact: N/A  
 Data Release Frequency: N/A

### PWS: Public Water System Data

This Safe Drinking Water Information System (SDWIS) file contains public water systems name and address, population served and the primary source of water.

Date of Government Version: 02/24/2006  
 Date Data Arrived at EDR: 04/27/2005  
 Date Made Active in Reports: N/A  
 Number of Days to Update: 0

Source: EPA  
 Telephone: N/A  
 Last EDR Contact: 08/20/2007  
 Next Scheduled EDR Contact: 11/19/2007  
 Data Release Frequency: N/A

### STATE AND LOCAL RECORDS

#### HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1998, 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: 08/27/2007  
 Next Scheduled EDR Contact: 11/28/2007  
 Data Release Frequency: No Update Planned

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 06/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	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: 05/29/2007	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/30/2007	Telephone: 916-323-3400
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 08/29/2007
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/25/2007
	Data Release Frequency: Quarterly

### TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 07/30/2007
Number of Days to Update: 27	Next Scheduled EDR Contact: 10/29/2007
	Data Release Frequency: No Update Planned

### SWF/ILF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/ILF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/11/2007	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 06/13/2007	Telephone: 916-341-6320
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 09/12/2007
Number of Days to Update: 16	Next Scheduled EDR Contact: 12/10/2007
	Data Release Frequency: Quarterly

### 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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 09/04/2007
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/03/2007
	Data Release Frequency: Quarterly

### CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/19/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007	Telephone: 916-341-6227
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 09/17/2007
Number of Days to Update: 9	Next Scheduled EDR Contact: 12/17/2007
	Data Release Frequency: Quarterly

### CORTSE: "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/ILS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 05/29/2001	Telephone: 916-323-3400
Date Made Active in Reports: 07/26/2001	Last EDR Contact: 07/23/2007
Number of Days to Update: 58	Next Scheduled EDR Contact: 10/22/2007
	Data Release Frequency: No Update Planned

### SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 07/09/2007	Source: Department of Conservation
Date Data Arrived at EDR: 07/11/2007	Telephone: 916-323-3836
Date Made Active in Reports: 08/09/2007	Last EDR Contact: 07/11/2007
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/08/2007
	Data Release Frequency: Quarterly

### LUST REG 8: 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	Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 04/23/2001	Telephone: 658-637-5595
Date Made Active in Reports: 05/21/2001	Last EDR Contact: 07/18/2007
Number of Days to Update: 28	Next Scheduled EDR Contact: 10/15/2007
	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	Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005	Telephone: 909-782-4486
Date Made Active in Reports: 03/28/2005	Last EDR Contact: 08/06/2007
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/05/2007
	Data Release Frequency: Varies

### 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	Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005	Telephone: 780-241-7365
Date Made Active in Reports: 08/29/2005	Last EDR Contact: 07/02/2007
Number of Days to Update: 22	Next Scheduled EDR Contact: 10/01/2007
	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	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 530-542-5572
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/04/2007
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/03/2007
	Data Release Frequency: No Update Planned

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Colveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Marin, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Yuba counties.

Date of Government Version: 07/01/2007	Source: California Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 08/01/2007	Telephone: 916-464-4834
Date Made Active in Reports: 08/08/2007	Last EDR Contact: 08/01/2007
Number of Days to Update: 8	Next Scheduled EDR Contact: 10/01/2007
	Data Release Frequency: Quarterly

### 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	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6710
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/24/2007
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/24/2007
	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	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-542-4766
Date Made Active in Reports: 08/02/2003	Last EDR Contact: 08/13/2007
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/12/2007
	Data Release Frequency: No Update Planned

### LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-622-2433
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 07/09/2007
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/08/2007
	Data Release Frequency: Quarterly

### 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	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-570-3768
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/20/2007
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: No Update Planned

### LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 07/10/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/11/2007	Telephone: see region list
Date Made Active in Reports: 08/06/2007	Last EDR Contact: 07/11/2007
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/08/2007
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-776-8943
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/20/2007
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: No Update Planned

### CA FID LUST: 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	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/28/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### SLIC: Statewide SLIC Cases

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: 08/03/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/03/2007	Telephone: 868-480-1028
Date Made Active in Reports: 08/06/2007	Last EDR Contact: 08/03/2007
Number of Days to Update: 6	Next Scheduled EDR Contact: 10/08/2007
	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	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 08/20/2007
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/19/2007
	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: 08/30/2004	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 07/09/2007
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/08/2007
	Data Release Frequency: Quarterly

### 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	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-548-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 08/13/2007
Number of Days to Update: 28	Next Scheduled EDR Contact: 10/08/2007
	Data Release Frequency: Semi-Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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: 07/23/2007  
 Next Scheduled EDR Contact: 10/22/2007  
 Data Release Frequency: Varies

### 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: 04/12/2005  
 Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)  
 Telephone: 916-464-3291  
 Last EDR Contact: 07/02/2007  
 Next Scheduled EDR Contact: 10/01/2007  
 Data Release Frequency: Semi-Annually

### 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: 07/02/2007  
 Next Scheduled EDR Contact: 10/01/2007  
 Data Release Frequency: Semi-Annually

### 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: 09/04/2007  
 Next Scheduled EDR Contact: 12/03/2007  
 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: 760-345-7493  
 Last EDR Contact: 08/20/2007  
 Next Scheduled EDR Contact: 11/19/2007  
 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: 07/17/2007  
 Date Data Arrived at EDR: 07/19/2007  
 Date Made Active in Reports: 08/09/2007  
 Number of Days to Update: 22

Source: California Region Water Quality Control Board Santa Ana Region (8)  
 Telephone: 951-762-3298  
 Last EDR Contact: 07/17/2007  
 Next Scheduled EDR Contact: 10/01/2007  
 Data Release Frequency: Semi-Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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: 03/13/2007  
 Date Data Arrived at EDR: 03/14/2007  
 Date Made Active in Reports: 04/06/2007  
 Number of Days to Update: 23

Source: California Regional Water Quality Control Board San Diego Region (9)  
 Telephone: 619-467-2990  
 Last EDR Contact: 09/10/2007  
 Next Scheduled EDR Contact: 11/26/2007  
 Data Release Frequency: Annually

### UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/10/2007  
 Date Data Arrived at EDR: 07/11/2007  
 Date Made Active in Reports: 07/25/2007  
 Number of Days to Update: 14

Source: SWRCB  
 Telephone: 916-480-1028  
 Last EDR Contact: 07/11/2007  
 Next Scheduled EDR Contact: 10/08/2007  
 Data Release Frequency: Semi-Annually

### UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 06/25/2007  
 Date Data Arrived at EDR: 06/25/2007  
 Date Made Active in Reports: 07/25/2007  
 Number of Days to Update: 29

Source: Department of Public Health  
 Telephone: 707-463-4466  
 Last EDR Contact: 09/24/2007  
 Next Scheduled EDR Contact: 12/24/2007  
 Data Release Frequency: Varies

### 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

### LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 05/07/2007  
 Date Data Arrived at EDR: 05/09/2007  
 Date Made Active in Reports: 05/25/2007  
 Number of Days to Update: 17

Source: Department of Toxic Substances Control  
 Telephone: 916-323-3400  
 Last EDR Contact: 08/20/2007  
 Next Scheduled EDR Contact: 11/05/2007  
 Data Release Frequency: Varies

### AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 05/01/2007  
 Date Data Arrived at EDR: 05/01/2007  
 Date Made Active in Reports: 05/25/2007  
 Number of Days to Update: 24

Source: State Water Resources Control Board  
 Telephone: 916-341-5712  
 Last EDR Contact: 07/30/2007  
 Next Scheduled EDR Contact: 10/29/2007  
 Data Release Frequency: Quarterly

### 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 1980'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.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 08/03/2005  
 Next Scheduled EDR Contact: N/A  
 Data Release Frequency: No Update Planned

### 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: 12/31/2005  
 Date Data Arrived at EDR: 02/23/2007  
 Date Made Active in Reports: 04/06/2007  
 Number of Days to Update: 42

Source: Office of Emergency Services  
 Telephone: 916-845-8400  
 Last EDR Contact: 08/20/2007  
 Next Scheduled EDR Contact: 11/19/2007  
 Data Release Frequency: Varies

### NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993  
 Date Data Arrived at EDR: 11/01/1993  
 Date Made Active in Reports: 11/19/1993  
 Number of Days to Update: 18

Source: State Water Resources Control Board  
 Telephone: 916-445-3846  
 Last EDR Contact: 07/16/2007  
 Next Scheduled EDR Contact: 10/15/2007  
 Data Release Frequency: No Update Planned

### 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: 07/02/2007  
 Date Data Arrived at EDR: 07/03/2007  
 Date Made Active in Reports: 08/09/2007  
 Number of Days to Update: 37

Source: Department of Toxic Substances Control  
 Telephone: 916-323-3400  
 Last EDR Contact: 07/03/2007  
 Next Scheduled EDR Contact: 10/01/2007  
 Data Release Frequency: Semi-Annually

### VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have requested that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 05/29/2007  
 Date Data Arrived at EDR: 05/30/2007  
 Date Made Active in Reports: 06/29/2007  
 Number of Days to Update: 30

Source: Department of Toxic Substances Control  
 Telephone: 916-323-3400  
 Last EDR Contact: 08/29/2007  
 Next Scheduled EDR Contact: 11/28/2007  
 Data Release Frequency: Quarterly

### DRYCLEANERS: Cleaner Facilities

A list of dry-cleaner 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 upholstery cleaning; industrial laundries; laundry and garment services.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/31/2007  
 Date Data Arrived at EDR: 07/31/2007  
 Date Made Active in Reports: 08/09/2007  
 Number of Days to Update: 9

Source: Department of Toxic Substances Control  
 Telephone: 916-327-4498  
 Last EDR Contact: 07/30/2007  
 Next Scheduled EDR Contact: 10/01/2007  
 Data Release Frequency: Annually

### WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area

Date of Government Version: 03/01/2007  
 Date Data Arrived at EDR: 03/13/2007  
 Date Made Active in Reports: 04/06/2007  
 Number of Days to Update: 24

Source: Los Angeles Water Quality Control Board  
 Telephone: 213-576-8726  
 Last EDR Contact: 07/27/2007  
 Next Scheduled EDR Contact: 10/22/2007  
 Data Release Frequency: Varies

### 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: 12/31/2006  
 Date Data Arrived at EDR: 03/07/2007  
 Date Made Active in Reports: 04/05/2007  
 Number of Days to Update: 30

Source: Department of Toxic Substances Control  
 Telephone: 916-255-8504  
 Last EDR Contact: 09/04/2007  
 Next Scheduled EDR Contact: 10/22/2007  
 Data Release Frequency: Varies

### 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: 05/28/2007  
 Date Data Arrived at EDR: 05/30/2007  
 Date Made Active in Reports: 08/29/2007  
 Number of Days to Update: 30

Source: Department of Toxic Substances Control  
 Telephone: 916-323-3400  
 Last EDR Contact: 08/29/2007  
 Next Scheduled EDR Contact: 11/28/2007  
 Data Release Frequency: Quarterly

### HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2005  
 Date Data Arrived at EDR: 11/20/2006  
 Date Made Active in Reports: 01/03/2007  
 Number of Days to Update: 44

Source: California Environmental Protection Agency  
 Telephone: 916-255-1136  
 Last EDR Contact: 08/09/2007  
 Next Scheduled EDR Contact: 11/05/2007  
 Data Release Frequency: Annually

### EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2005  
 Date Data Arrived at EDR: 04/17/2007  
 Date Made Active in Reports: 05/18/2007  
 Number of Days to Update: 23

Source: California Air Resources Board  
 Telephone: 916-322-2980  
 Last EDR Contact: 07/20/2007  
 Next Scheduled EDR Contact: 10/15/2007  
 Data Release Frequency: Varies

### HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/07/2007  
 Date Data Arrived at EDR: 06/08/2007  
 Date Made Active in Reports: 08/29/2007  
 Number of Days to Update: 21

Source: Integrated Waste Management Board  
 Telephone: 916-341-6422  
 Last EDR Contact: 09/10/2007  
 Next Scheduled EDR Contact: 12/10/2007  
 Data Release Frequency: Varies

### ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies 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: 05/29/2007  
 Date Data Arrived at EDR: 05/30/2007  
 Date Made Active in Reports: 08/29/2007  
 Number of Days to Update: 30

Source: Department of Toxic Substances Control  
 Telephone: 916-323-3400  
 Last EDR Contact: 08/29/2007  
 Next Scheduled EDR Contact: 11/26/2007  
 Data Release Frequency: Quarterly

### TRIBAL RECORDS

#### 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: 12/31/2005  
 Date Data Arrived at EDR: 12/08/2006  
 Date Made Active in Reports: 01/11/2007  
 Number of Days to Update: 34

Source: USGS  
 Telephone: 202-208-3710  
 Last EDR Contact: 08/09/2007  
 Next Scheduled EDR Contact: 11/05/2007  
 Data Release Frequency: Semi-Annually

#### INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2007  
 Date Data Arrived at EDR: 06/14/2007  
 Date Made Active in Reports: 07/05/2007  
 Number of Days to Update: 21

Source: EPA Region 7  
 Telephone: 913-551-7003  
 Last EDR Contact: 08/20/2007  
 Next Scheduled EDR Contact: 11/19/2007  
 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: 05/30/2007  
 Date Data Arrived at EDR: 05/31/2007  
 Date Made Active in Reports: 07/05/2007  
 Number of Days to Update: 35

Source: EPA Region 8  
 Telephone: 303-312-6271  
 Last EDR Contact: 09/20/2007  
 Next Scheduled EDR Contact: 11/19/2007  
 Data Release Frequency: Quarterly

#### INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005  
 Date Data Arrived at EDR: 01/21/2005  
 Date Made Active in Reports: 02/28/2005  
 Number of Days to Update: 38

Source: EPA Region 6  
 Telephone: 214-665-6597  
 Last EDR Contact: 08/20/2007  
 Next Scheduled EDR Contact: 11/19/2007  
 Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

#### INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 03/20/2007  
 Date Data Arrived at EDR: 04/16/2007  
 Date Made Active in Reports: 05/14/2007  
 Number of Days to Update: 28

Source: EPA Region 4  
 Telephone: 404-582-8677  
 Last EDR Contact: 08/20/2007  
 Next Scheduled EDR Contact: 11/19/2007  
 Data Release Frequency: Semi-Annually

#### 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: 12/01/2006  
 Date Data Arrived at EDR: 12/01/2006  
 Date Made Active in Reports: 01/29/2007  
 Number of Days to Update: 59

Source: EPA Region 1  
 Telephone: 617-918-1313  
 Last EDR Contact: 08/20/2007  
 Next Scheduled EDR Contact: 11/19/2007  
 Data Release Frequency: Varies

#### INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 05/23/2007  
 Date Data Arrived at EDR: 05/24/2007  
 Date Made Active in Reports: 07/05/2007  
 Number of Days to Update: 42

Source: EPA Region 10  
 Telephone: 206-553-2857  
 Last EDR Contact: 08/20/2007  
 Next Scheduled EDR Contact: 11/19/2007  
 Data Release Frequency: Quarterly

#### 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: 06/18/2007  
 Date Data Arrived at EDR: 06/18/2007  
 Date Made Active in Reports: 07/05/2007  
 Number of Days to Update: 17

Source: Environmental Protection Agency  
 Telephone: 415-972-3372  
 Last EDR Contact: 08/20/2007  
 Next Scheduled EDR Contact: 11/19/2007  
 Data Release Frequency: Quarterly

#### INDIAN LUST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 12/01/2006  
 Date Data Arrived at EDR: 12/01/2006  
 Date Made Active in Reports: 01/29/2007  
 Number of Days to Update: 59

Source: EPA, Region 1  
 Telephone: 617-918-1313  
 Last EDR Contact: 08/20/2007  
 Next Scheduled EDR Contact: 11/19/2007  
 Data Release Frequency: Varies

#### INDIAN LUST R7: Underground Storage Tanks on Indian Land

Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2007  
 Date Data Arrived at EDR: 06/14/2007  
 Date Made Active in Reports: 07/05/2007  
 Number of Days to Update: 21

Source: EPA Region 7  
 Telephone: 913-551-7003  
 Last EDR Contact: 08/20/2007  
 Next Scheduled EDR Contact: 11/19/2007  
 Data Release Frequency: Varies

#### INDIAN LUST R4: Underground Storage Tanks on Indian Land

Underground Storage Tanks on Indian Land

Date of Government Version: 03/20/2007  
 Date Data Arrived at EDR: 04/16/2007  
 Date Made Active in Reports: 05/14/2007  
 Number of Days to Update: 28

Source: EPA Region 4  
 Telephone: 404-582-9424  
 Last EDR Contact: 08/20/2007  
 Next Scheduled EDR Contact: 11/19/2007  
 Data Release Frequency: Semi-Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 06/08/2007	Source: EPA Region 6
Date Data Arrived at EDR: 06/07/2007	Telephone: 214-865-7591
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 08/20/2007
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: Semi-Annually

### INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 06/18/2007	Source: EPA Region 9
Date Data Arrived at EDR: 06/18/2007	Telephone: 415-972-3368
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 08/20/2007
Number of Days to Update: 17	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: Quarterly

### INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 05/23/2007	Source: EPA Region 10
Date Data Arrived at EDR: 05/24/2007	Telephone: 208-553-2857
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 08/20/2007
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: Quarterly

### INDIAN UST R5: Underground Storage Tanks on Indian Land

Date of Government Version: 12/02/2004	Source: EPA Region 5
Date Data Arrived at EDR: 12/29/2004	Telephone: 312-886-6136
Date Made Active in Reports: 02/04/2005	Last EDR Contact: 08/20/2007
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: Varies

### INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 05/30/2007	Source: EPA Region 8
Date Data Arrived at EDR: 05/31/2007	Telephone: 303-312-6137
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 08/20/2007
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: Quarterly

### EDR PROPRIETARY RECORDS

#### Manufactured Gas Plants: 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 1850'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 (oil 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	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

#### EDR Historical Auto Stations: EDR Proprietary Historic Gas 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.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

#### EDR Historical Cleaners: EDR Proprietary Historic Dry 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.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

### FEDERAL RECORDS

#### COLLEGES: Integrated Postsecondary Education Data

The National Center for Education Statistics' primary database on integrated postsecondary education in the United States.

Date of Government Version: N/A	Source: National Center for Education Statistics
Date Data Arrived at EDR: 10/12/2005	Telephone: 202-502-7300
Date Made Active in Reports: N/A	Last EDR Contact: 09/22/2006
Number of Days to Update: 0	Next Scheduled EDR Contact: N/A
	Data Release Frequency: N/A

#### PUBLIC SCHOOLS: Public Schools

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.

Date of Government Version: N/A	Source: National Center for Education Statistics
Date Data Arrived at EDR: 07/13/2004	Telephone: 202-502-7300
Date Made Active in Reports: N/A	Last EDR Contact: 07/11/2007
Number of Days to Update: 0	Next Scheduled EDR Contact: 10/08/2007
	Data Release Frequency: N/A

#### PRIVATE SCHOOLS: Private Schools of the United States

The National Center for Education Statistics' primary database on private school locations in the United States.

Date of Government Version: N/A	Source: National Center for Education Statistics
Date Data Arrived at EDR: 10/07/2005	Telephone: 202-502-7300
Date Made Active in Reports: N/A	Last EDR Contact: 09/22/2006
Number of Days to Update: 0	Next Scheduled EDR Contact: N/A
	Data Release Frequency: N/A

#### NURSING HOMES: Directory of Nursing Homes

Information on Medicare and Medicaid certified nursing homes in the United States.

Date of Government Version: N/A	Source: N/A
Date Data Arrived at EDR: 10/11/2005	Telephone: 800-568-3282
Date Made Active in Reports: N/A	Last EDR Contact: 09/22/2006
Number of Days to Update: 0	Next Scheduled EDR Contact: N/A
	Data Release Frequency: N/A

#### MEDICAL CENTERS: Provider of Services Listing

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 & Human Services.

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

Date of Government Version: 06/01/1998  
 Date Data Arrived at EDR: 11/10/2005  
 Date Made Active in Reports: N/A  
 Number of Days to Update: 0

Source: Centers for Medicare & Medicaid Services  
 Telephone: 410-786-3000  
 Last EDR Contact: 01/12/2007  
 Next Scheduled EDR Contact: N/A  
 Data Release Frequency: N/A

**HOSPITALS:** AHA Hospital Guide

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Date of Government Version: N/A  
 Date Data Arrived at EDR: 10/19/1994  
 Date Made Active in Reports: N/A  
 Number of Days to Update: 0

Source: American Hospital Association  
 Telephone: 800-242-2626  
 Last EDR Contact: 09/22/2008  
 Next Scheduled EDR Contact: N/A  
 Data Release Frequency: N/A

**COUNTY RECORDS****ALAMEDA COUNTY:****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: 04/24/2007  
 Date Data Arrived at EDR: 04/26/2007  
 Date Made Active in Reports: 05/10/2007  
 Number of Days to Update: 14

Source: Alameda County Environmental Health Services  
 Telephone: 510-567-6700  
 Last EDR Contact: 07/23/2007  
 Next Scheduled EDR Contact: 10/22/2007  
 Data Release Frequency: Semi-Annually

**Underground Tanks**

Underground storage tank sites located in Alameda county.

Date of Government Version: 08/03/2007  
 Date Data Arrived at EDR: 08/07/2007  
 Date Made Active in Reports: 09/24/2007  
 Number of Days to Update: 48

Source: Alameda County Environmental Health Services  
 Telephone: 510-567-6700  
 Last EDR Contact: 07/23/2007  
 Next Scheduled EDR Contact: 10/22/2007  
 Data Release Frequency: Semi-Annually

**CONTRA COSTA COUNTY:****Site List**

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 05/29/2007  
 Date Data Arrived at EDR: 05/31/2007  
 Date Made Active in Reports: 09/29/2007  
 Number of Days to Update: 29

Source: Contra Costa Health Services Department  
 Telephone: 925-948-2266  
 Last EDR Contact: 09/10/2007  
 Next Scheduled EDR Contact: 11/26/2007  
 Data Release Frequency: Semi-Annually

**KERN COUNTY:****Underground Storage Tank Sites & Tank Listing**  
Kern County Sites and Tanks Listing.

Date of Government Version: 06/20/2007  
 Date Data Arrived at EDR: 06/21/2007  
 Date Made Active in Reports: 07/25/2007  
 Number of Days to Update: 34

Source: Kern County Environment Health Services Department  
 Telephone: 661-862-8700  
 Last EDR Contact: 09/17/2007  
 Next Scheduled EDR Contact: 12/03/2007  
 Data Release Frequency: Quarterly

**LOS ANGELES COUNTY:****GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING****San Gabriel Valley Areas of Concern**

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998  
 Date Data Arrived at EDR: 07/07/1999  
 Date Made Active in Reports: N/A  
 Number of Days to Update: 0

Source: EPA Region 9  
 Telephone: 415-972-3178  
 Last EDR Contact: 07/16/2007  
 Next Scheduled EDR Contact: 10/15/2007  
 Data Release Frequency: No Update Planned

**HMS: Street Number List**

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 01/31/2007  
 Date Data Arrived at EDR: 04/12/2007  
 Date Made Active in Reports: 04/27/2007  
 Number of Days to Update: 15

Source: Department of Public Works  
 Telephone: 626-458-3517  
 Last EDR Contact: 08/13/2007  
 Next Scheduled EDR Contact: 11/12/2007  
 Data Release Frequency: Semi-Annually

**List of Solid Waste Facilities**

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 05/15/2007  
 Date Data Arrived at EDR: 06/08/2007  
 Date Made Active in Reports: 06/28/2007  
 Number of Days to Update: 21

Source: La County Department of Public Works  
 Telephone: 818-458-5185  
 Last EDR Contact: 08/17/2007  
 Next Scheduled EDR Contact: 11/12/2007  
 Data Release Frequency: Varies

**City of Los Angeles Landfills**

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/01/2007  
 Date Data Arrived at EDR: 03/27/2007  
 Date Made Active in Reports: 04/27/2007  
 Number of Days to Update: 31

Source: Engineering & Construction Division  
 Telephone: 213-473-7869  
 Last EDR Contact: 09/10/2007  
 Next Scheduled EDR Contact: 12/10/2007  
 Data Release Frequency: Varies

**Site Mitigation List**

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/30/2007  
 Date Data Arrived at EDR: 07/11/2007  
 Date Made Active in Reports: 08/09/2007  
 Number of Days to Update: 29

Source: Community Health Services  
 Telephone: 323-890-7806  
 Last EDR Contact: 09/20/2007  
 Next Scheduled EDR Contact: 11/12/2007  
 Data Release Frequency: Annually

**City of El Segundo Underground Storage Tank**

Underground storage tank sites located in the city of El Segundo.

Date of Government Version: 05/14/2007  
 Date Data Arrived at EDR: 05/15/2007  
 Date Made Active in Reports: 06/25/2007  
 Number of Days to Update: 41

Source: City of El Segundo Fire Department  
 Telephone: 310-524-2236  
 Last EDR Contact: 08/13/2007  
 Next Scheduled EDR Contact: 11/12/2007  
 Data Release Frequency: Semi-Annually

**City of Long Beach Underground Storage Tank**

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2009  
 Date Data Arrived at EDR: 10/23/2003  
 Date Made Active in Reports: 11/26/2003  
 Number of Days to Update: 34

Source: City of Long Beach Fire Department  
 Telephone: 562-570-2563  
 Last EDR Contact: 08/23/2007  
 Next Scheduled EDR Contact: 11/19/2007  
 Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### City of Torrance Underground Storage Tank Underground storage tank sites located in the city of Torrance.

Date of Government Version: 05/29/2007	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 05/29/2007	Telephone: 310-618-2973
Date Made Active in Reports: 06/25/2007	Last EDR Contact: 09/24/2007
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/12/2007
	Data Release Frequency: Semi-Annually

### MARIN COUNTY:

#### Underground Storage Tank Sites Currently permitted USTs in Marin County.

Date of Government Version: 05/08/2007	Source: Public Works Department Waste Management
Date Data Arrived at EDR: 06/08/2007	Telephone: 415-499-6647
Date Made Active in Reports: 07/25/2007	Last EDR Contact: 07/30/2007
Number of Days to Update: 47	Next Scheduled EDR Contact: 10/29/2007
	Data Release Frequency: Semi-Annually

### NAPA COUNTY:

#### Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 07/24/2007	Source: Napa County Department of Environmental Management
Date Data Arrived at EDR: 07/27/2007	Telephone: 707-253-4269
Date Made Active in Reports: 08/09/2007	Last EDR Contact: 09/24/2007
Number of Days to Update: 13	Next Scheduled EDR Contact: 12/24/2007
	Data Release Frequency: Semi-Annually

#### Closed and Operating Underground Storage Tank Sites Underground storage tank sites located in Napa county.

Date of Government Version: 07/24/2007	Source: Napa County Department of Environmental Management
Date Data Arrived at EDR: 07/27/2007	Telephone: 707-253-4269
Date Made Active in Reports: 09/07/2007	Last EDR Contact: 09/24/2007
Number of Days to Update: 42	Next Scheduled EDR Contact: 12/24/2007
	Data Release Frequency: Annually

### ORANGE COUNTY:

#### List of Underground Storage Tank Cleanups Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 06/01/2007	Source: Health Care Agency
Date Data Arrived at EDR: 06/19/2007	Telephone: 714-834-3446
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 08/31/2007
Number of Days to Update: 10	Next Scheduled EDR Contact: 12/03/2007
	Data Release Frequency: Quarterly

#### List of Underground Storage Tank Facilities Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 06/01/2007	Source: Health Care Agency
Date Data Arrived at EDR: 06/19/2007	Telephone: 714-834-3446
Date Made Active in Reports: 07/25/2007	Last EDR Contact: 08/31/2007
Number of Days to Update: 36	Next Scheduled EDR Contact: 12/03/2007
	Data Release Frequency: Quarterly

### PLACER COUNTY:

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 07/23/2007	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 07/23/2007	Telephone: 530-889-7312
Date Made Active in Reports: 08/09/2007	Last EDR Contact: 09/17/2007
Number of Days to Update: 17	Next Scheduled EDR Contact: 12/17/2007
	Data Release Frequency: Semi-Annually

### RIVERSIDE COUNTY:

#### Listing of Underground Tank Cleanup Sites Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/21/2007	Source: Department of Public Health
Date Data Arrived at EDR: 05/22/2007	Telephone: 951-358-5055
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 07/16/2007
Number of Days to Update: 38	Next Scheduled EDR Contact: 10/15/2007
	Data Release Frequency: Quarterly

#### Underground Storage Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 06/06/2007	Source: Health Services Agency
Date Data Arrived at EDR: 06/07/2007	Telephone: 951-358-5055
Date Made Active in Reports: 09/24/2007	Last EDR Contact: 07/16/2007
Number of Days to Update: 48	Next Scheduled EDR Contact: 10/15/2007
	Data Release Frequency: Quarterly

### SAN DIEGO COUNTY:

#### Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 1/10/2006	Source: Department of Health Services
Date Data Arrived at EDR: 01/03/2007	Telephone: 619-338-2209
Date Made Active in Reports: 01/24/2007	Last EDR Contact: 09/04/2007
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: Varies

### SAN FRANCISCO COUNTY:

#### Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 06/08/2007	Source: Department Of Public Health San Francisco County
Date Data Arrived at EDR: 06/12/2007	Telephone: 415-252-3920
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 09/04/2007
Number of Days to Update: 17	Next Scheduled EDR Contact: 12/03/2007
	Data Release Frequency: Quarterly

#### Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 09/07/2007	Source: Department of Public Health
Date Data Arrived at EDR: 09/07/2007	Telephone: 415-252-3920
Date Made Active in Reports: 09/24/2007	Last EDR Contact: 09/04/2007
Number of Days to Update: 17	Next Scheduled EDR Contact: 12/03/2007
	Data Release Frequency: Quarterly

### SAN JOAQUIN COUNTY:

**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING****San Joaquin Co. UST**

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 08/21/2007	Source: Environmental Health Department
Date Data Arrived at EDR: 08/22/2007	Telephone: N/A
Date Made Active in Reports: 08/24/2007	Last EDR Contact: 07/30/2007
Number of Days to Update: 33	Next Scheduled EDR Contact: 10/15/2007
	Data Release Frequency: Semi-Annually

**SAN MATEO COUNTY:****Fuel Leak List**

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 07/09/2007	Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 07/10/2007	Telephone: 650-363-1821
Date Made Active in Reports: 08/09/2007	Last EDR Contact: 07/09/2007
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/08/2007
	Data Release Frequency: Semi-Annually

**SANTA CLARA COUNTY:****LOP Listing**

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/26/2007	Source: Department of Environmental Health
Date Data Arrived at EDR: 03/27/2007	Telephone: 408-918-3417
Date Made Active in Reports: 04/27/2007	Last EDR Contact: 09/24/2007
Number of Days to Update: 31	Next Scheduled EDR Contact: 12/24/2007
	Data Release Frequency: Varies

**Hazardous Material Facilities**

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/11/2007	Source: City of San Jose Fire Department
Date Data Arrived at EDR: 08/12/2007	Telephone: 408-277-4659
Date Made Active in Reports: 08/29/2007	Last EDR Contact: 09/17/2007
Number of Days to Update: 17	Next Scheduled EDR Contact: 12/03/2007
	Data Release Frequency: Annually

**SOLANO COUNTY:****Leaking Underground Storage Tanks**

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 07/09/2007	Source: Solano County Department of Environmental Management
Date Data Arrived at EDR: 08/03/2007	Telephone: 707-784-6770
Date Made Active in Reports: 08/09/2007	Last EDR Contact: 09/24/2007
Number of Days to Update: 6	Next Scheduled EDR Contact: 12/24/2007
	Data Release Frequency: Quarterly

**Underground Storage Tanks**

Underground storage tank sites located in Solano county.

Date of Government Version: 07/09/2007	Source: Solano County Department of Environmental Management
Date Data Arrived at EDR: 08/03/2007	Telephone: 707-784-6770
Date Made Active in Reports: 08/24/2007	Last EDR Contact: 09/24/2007
Number of Days to Update: 52	Next Scheduled EDR Contact: 12/24/2007
	Data Release Frequency: Quarterly

**SONOMA COUNTY:****GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING****Leaking Underground Storage Tank Sites**

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/09/2007	Source: Department of Health Services
Date Data Arrived at EDR: 07/09/2007	Telephone: 707-585-6565
Date Made Active in Reports: 08/09/2007	Last EDR Contact: 07/09/2007
Number of Days to Update: 31	Next Scheduled EDR Contact: 10/22/2007
	Data Release Frequency: Quarterly

**SUTTER COUNTY:****Underground Storage Tanks**

Underground storage tank sites located in Sutter county.

Date of Government Version: 05/04/2007	Source: Sutter County Department of Agriculture
Date Data Arrived at EDR: 05/04/2007	Telephone: 530-822-7500
Date Made Active in Reports: 05/24/2007	Last EDR Contact: 07/02/2007
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/01/2007
	Data Release Frequency: Semi-Annually

**VENTURA COUNTY:****Business Plan, Hazardous Waste Producers, and Operating Underground Tanks**

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 05/30/2007	Source: Ventura County Environmental Health Division
Date Data Arrived at EDR: 06/22/2007	Telephone: 805-654-2813
Date Made Active in Reports: 08/29/2007	Last EDR Contact: 09/12/2007
Number of Days to Update: 7	Next Scheduled EDR Contact: 12/10/2007
	Data Release Frequency: Quarterly

**Inventory of Illegal Abandoned and Inactive Sites**

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/05/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/21/2007
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/19/2007
	Data Release Frequency: Annually

**Listing of Underground Tank Cleanup Sites**

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/05/2007	Source: Environmental Health Division
Date Data Arrived at EDR: 06/21/2007	Telephone: 805-654-2813
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 09/12/2007
Number of Days to Update: 8	Next Scheduled EDR Contact: 12/10/2007
	Data Release Frequency: Quarterly

**Underground Tank Closed Sites List**

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/28/2007	Source: Environmental Health Division
Date Data Arrived at EDR: 07/27/2007	Telephone: 805-654-2813
Date Made Active in Reports: 09/07/2007	Last EDR Contact: 07/11/2007
Number of Days to Update: 42	Next Scheduled EDR Contact: 10/08/2007
	Data Release Frequency: Quarterly

**YOLO COUNTY:**

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 07/30/2007  
Date Data Arrived at EDR: 09/04/2007  
Date Made Active in Reports: 09/24/2007  
Number of Days to Update: 20

Source: Yolo County Department of Health  
Telephone: 530-686-8548  
Last EDR Contact: 07/30/2007  
Next Scheduled EDR Contact: 10/15/2007  
Data Release Frequency: Annually

### 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: 12/31/2005  
Date Data Arrived at EDR: 06/15/2007  
Date Made Active in Reports: 08/20/2007  
Number of Days to Update: 66

Source: Department of Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 09/12/2007  
Next Scheduled EDR Contact: 12/10/2007  
Data Release Frequency: Annually

#### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 04/01/2007  
Date Data Arrived at EDR: 04/05/2007  
Date Made Active in Reports: 05/08/2007  
Number of Days to Update: 33

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 07/03/2007  
Next Scheduled EDR Contact: 10/01/2007  
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: 08/27/2007  
Date Data Arrived at EDR: 08/30/2007  
Date Made Active in Reports: 09/21/2007  
Number of Days to Update: 22

Source: Department of Environmental Conservation  
Telephone: 518-402-8851  
Last EDR Contact: 08/30/2007  
Next Scheduled EDR Contact: 11/26/2007  
Data Release Frequency: Annually

#### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 03/17/2006  
Date Made Active in Reports: 05/06/2006  
Number of Days to Update: 81

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 09/10/2007  
Next Scheduled EDR Contact: 12/10/2007  
Data Release Frequency: Annually

#### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 04/08/2007  
Date Data Arrived at EDR: 04/12/2007  
Date Made Active in Reports: 04/27/2007  
Number of Days to Update: 15

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 09/17/2007  
Next Scheduled EDR Contact: 12/17/2007  
Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

#### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2006  
Date Data Arrived at EDR: 04/27/2007  
Date Made Active in Reports: 06/08/2007  
Number of Days to Update: 42

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 07/09/2007  
Next Scheduled EDR Contact: 10/06/2007  
Data Release Frequency: Annually

**Oil/Gas Pipelines:** This data was obtained by EDR from the USGS in 1984. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

#### Electric Power Transmission Line Data

Source: PennWell Corporation

Telephone: (800) 823-8277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

**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.

#### ANA 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, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### STREET AND ADDRESS INFORMATION

© 2007 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

## GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

465 LOS FELIZ  
465 LOS FELIZ ROAD AND 434-450 FERNANDO COURT  
GLENDALE, CA 91204

### TARGET PROPERTY COORDINATES

Latitude (North): 34.12790 - 34° 7' 40.4"  
Longitude (West): 118.2614 - 118° 15' 41.0"  
Universal Transverse Mercator: Zone 11  
UTM X (Meters): 383681.2  
UTM Y (Meters): 3776861.0  
Elevation: 444 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map: 34118-B3 BURBANK, CA  
Most Recent Revision: 1994  
East Map: 34118-B2 PASADENA, CA  
Most Recent Revision: 1994  
Southeast Map: 34118-A2 LOS ANGELES, CA  
Most Recent Revision: 1994  
South Map: 34118-A3 HOLLYWOOD, CA  
Most Recent Revision: 1994

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).

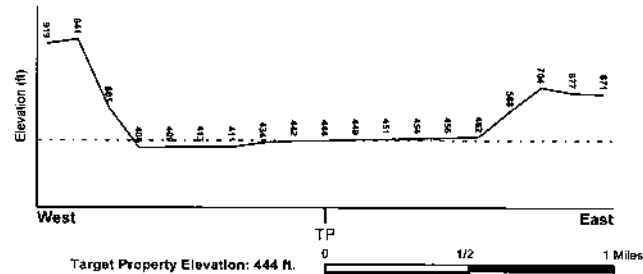
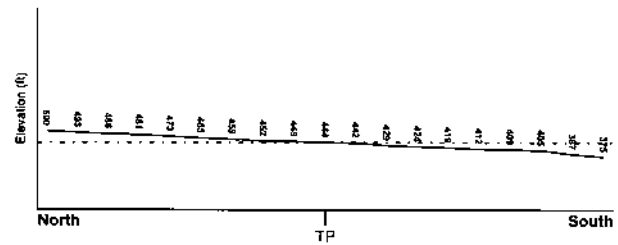
### TOPOGRAPHIC INFORMATION

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 SW

### SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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

Target Property County	FEMA Flood Electronic Data
LOS ANGELES, CA	YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	0650300000A
Additional Panels in search area:	0601370048C 0601370056C

### NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
BURBANK	YES - refer to the Overview Map and Detail Map

### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

#### Site-Specific Hydrogeological Data:

Search Radius:	1.25 miles
Location Relative to TP:	1/2 - 1 Mile NW
Site Name:	GARRETT NEAL
Site EPA ID Number:	CAD98086567
Groundwater Flow Direction:	N OR S. A PUMPING DEPRESSION EXISTS APPROXIMATELY 2 MILES TO THE NORTH OF THE SITE.
Measured Depth to Water:	approximately 15 feet.
Hydraulic Connection:	A recent alluvium underlies the site. Clay and silt lenses that act as confining layers exist in the site area.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

### AQUIFLOW®

Search Radius: 1.000 Mile.

EOR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EOR 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	GENERAL DIRECTION
Not Reported	FROM TP	GROUNDWATER FLOW

* 1998 Superfund hydrogeological data gathered by CERCLIS Atmos, Inc. (Garrett Neal, NH). All rights reserved. All of the information and opinions presented are those of the client (EPA report(s)) which were compiled under a Complete Environmental Response Investigation and Liability Information System (CERCLIS) investigation.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### ROCK STRATIGRAPHIC UNIT

Era: Mesozoic  
 System: Cretaceous  
 Series: Cretaceous granitic rocks  
 Code: Kg (decoded above as Era, System & Series)

#### GEOLOGIC AGE IDENTIFICATION

Category: Plutonic and Intrusive Rocks

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).

### 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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND  
 Soil Surface Texture: variable  
 Hydrologic Group: Not reported  
 Soil Drainage Class: Not reported  
 Hydric Status: Soil does not meet the requirements for a hydric soil.  
 Corrosion Potential - Uncoated Steel: Not Reported  
 Depth to Bedrock Min: > 10 inches  
 Depth to Bedrock Max: > 10 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Layer Information

Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordnant soil types may appear within the general area of target property.

Soil Surface Textures: loam  
 clay  
 silt loam  
 loamy sand  
 sandy loam  
 fine sand  
 clay loam  
 gravelly - sandy loam  
 coarse sand  
 gravelly - sand  
 sand

Surficial Soil Types: loam  
 clay  
 silt loam  
 loamy sand  
 sandy loam  
 fine sand  
 clay loam  
 gravelly - sandy loam  
 coarse sand  
 gravelly - sand  
 sand

Shallow Soil Types: fine sandy loam  
 gravelly - loam  
 sand  
 silty clay

Deeper Soil Types: stratified  
 clay loam  
 silty clay loam  
 gravelly - sandy loam  
 coarse sand  
 sand  
 weathered bedrock  
 very fine sandy loam

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### 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
3	USGS3160574	1/2 - 1 Mile East

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

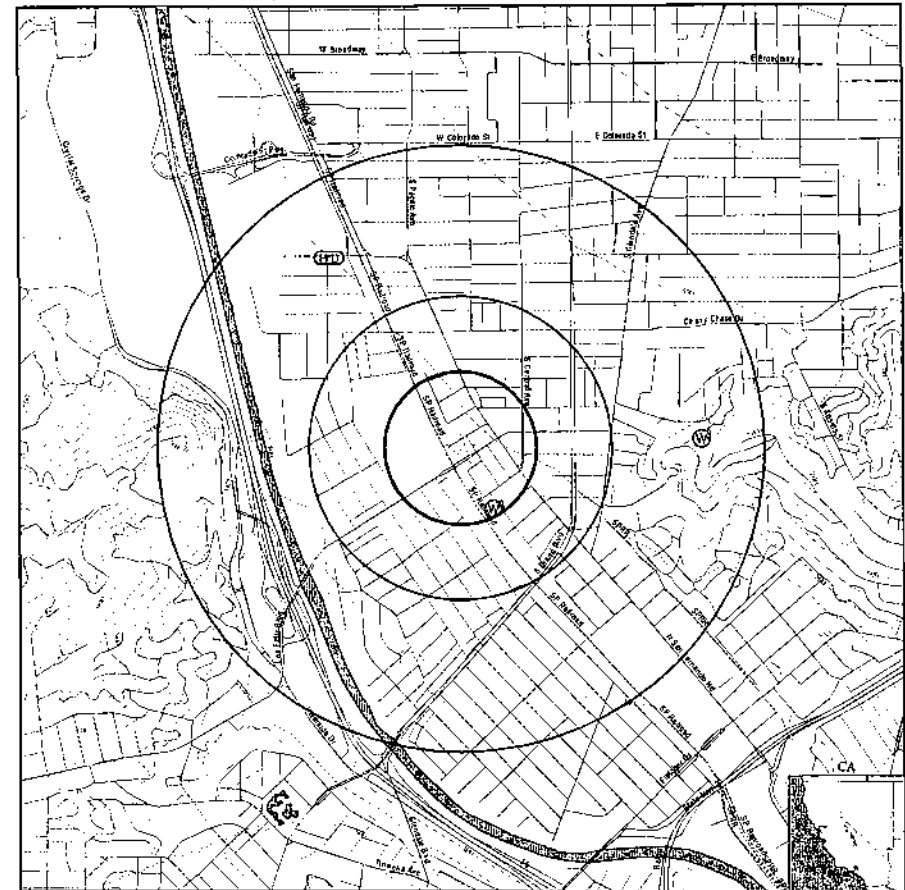
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	14405	1/8 - 1/4 Mile SSE
A2	14404	1/8 - 1/4 Mile SSE

### PHYSICAL SETTING SOURCE MAP - 2037078.2s



- |                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>— County Boundary</li> <li>— Major Roads</li> <li>— Contour Lines</li> <li>- - - Earthquake Fault Lines</li> <li>⊙ Earthquake epicenter, Richter 5 or greater</li> <li>⊕ Water Wells</li> <li>⊕ Public Water Supply Wells</li> <li>● Cluster of Multiple Icons</li> </ul> | <ul style="list-style-type: none"> <li>↑ Groundwater Flow Direction</li> <li>⊕ Indeterminate Groundwater Flow at Location</li> <li>⊕ Groundwater Flow Varies at Location</li> <li>⊕ Closest Hydrogeological Data</li> <li>⊕ Oil, gas or related wells</li> </ul> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SITE NAME: 465 Los Feliz  
 ADDRESS: 465 Los Feliz Road and 434-450 Fernando Court  
 Glendale CA 91204  
 LAT/LONG: 34.1279 / 118.2614

CLIENT: QORE Property Sciences  
 CONTACT: Thomas Hale  
 INQUIRY #: 2037078.2s  
 DATE: September 25, 2007 9:34 am

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID  
 Direction  
 Distance  
 Elevation

A1  
 SSE  
 1/8 - 1/4 Mile  
 Lower

Database EDR ID Number

CA WELLS 14405

**Water System Information:**

Prime Station Code: 1910225-002 User ID: 4TH  
 FRDS Number: 1910225002 County: Los Angeles  
 District Number: 07 Station Type: COMP/RESVR/MUN  
 Water Type: Surface Water Well Status: CR  
 Source Lat/Long: 340730.0 1181531.0 Precision: 1,000 Feet (10 Seconds)  
 Source Name: WESTLAKE RESERVOIR INFLUENT  
 System Number: 1910225  
 System Name: LAS VIRGENES MWD  
 Organization That Operates System:  
 4232 LAS VIRGENES ROAD  
 CALABASAS, CA 91302  
 Pop Served: 52000 Connections: 17994  
 Area Served: CALABASAS VICINITY

A2  
 SSE  
 1/8 - 1/4 Mile  
 Lower

CA WELLS 14404

**Water System Information:**

Prime Station Code: 1910225-001 User ID: 4TH  
 FRDS Number: 1910225001 County: Los Angeles  
 District Number: 07 Station Type: COMP/RESVR/AMBNT/MUN  
 Water Type: Surface Water Well Status: Combined Treated  
 Source Lat/Long: 340730.0 1181531.0 Precision: 1,000 Feet (10 Seconds)  
 Source Name: WESTLAKE RESERVOIR  
 System Number: 1910225  
 System Name: LAS VIRGENES MWD  
 Organization That Operates System:  
 4232 LAS VIRGENES ROAD  
 CALABASAS, CA 91302  
 Pop Served: 52000 Connections: 17994  
 Area Served: CALABASAS VICINITY

Sample Collected: 12/17/2002 00:00:00 Findings: 5.1 UG/L  
 Chemical: TOTAL TRIHALOMETHANES

Sample Collected: 03/18/2003 00:00:00 Findings: 31 MG/L  
 Chemical: CALCIUM

Sample Collected: 03/18/2003 00:00:00 Findings: 17 MG/L  
 Chemical: MAGNESIUM

Sample Collected: 03/18/2003 00:00:00 Findings: 63 MG/L  
 Chemical: SODIUM

Sample Collected: 03/07/2002 00:00:00 Findings: 6.1 UG/L  
 Chemical: TOTAL TRIHALOMETHANES

Sample Collected: 03/07/2002 00:00:00 Findings: 1.8 UG/L  
 Chemical: CHROMIUM (TOTAL CR-CRVI SCREEN)

Sample Collected: 06/25/2002 00:00:00 Findings: 2.2 MG/L  
 Chemical: NITRATE (AS NO3)

Sample Collected: 06/25/2002 00:00:00 Findings: 16 MG/L  
 Chemical: MAGNESIUM

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Sample Collected: 06/25/2002 00:00:00 Findings: 250 UG/L  
 Chemical: BORON

Sample Collected: 06/25/2002 00:00:00 Findings: 4.1 UG/L  
 Chemical: VANADIUM

Sample Collected: 06/25/2002 00:00:00 Findings: 5 UG/L  
 Chemical: BROMODICHLORMETHANE (THM)

Sample Collected: 06/25/2002 00:00:00 Findings: 3.2 UG/L  
 Chemical: BROMOFORM (THM)

Sample Collected: 06/25/2002 00:00:00 Findings: 7.3 UG/L  
 Chemical: DIBROMOCHLORMETHANE (THM)

Sample Collected: 06/25/2002 00:00:00 Findings: 2.3 UG/L  
 Chemical: CHLOROFORM (THM)

Sample Collected: 03/07/2002 00:00:00 Findings: 2.7 MG/L  
 Chemical: NITRATE (AS NO3)

Sample Collected: 03/07/2002 00:00:00 Findings: 12.3 C  
 Chemical: SOURCE TEMPERATURE C

Sample Collected: 03/07/2002 00:00:00 Findings: 10 UNITS  
 Chemical: COLOR

Sample Collected: 03/07/2002 00:00:00 Findings: 4 TON  
 Chemical: ODOR THRESHOLD @ 60 C

Sample Collected: 03/07/2002 00:00:00 Findings: 555 US  
 Chemical: SPECIFIC CONDUCTANCE

Sample Collected: 03/07/2002 00:00:00 Findings: 8.1  
 Chemical: PH, LABORATORY

Sample Collected: 03/07/2002 00:00:00 Findings: 108 MG/L  
 Chemical: ALKALINITY (TOTAL) AS CaCO3

Sample Collected: 03/07/2002 00:00:00 Findings: 108 MG/L  
 Chemical: BICARBONATE ALKALINITY

Sample Collected: 03/07/2002 00:00:00 Findings: 138 MG/L  
 Chemical: HARDNESS (TOTAL) AS CaCO3

Sample Collected: 03/07/2002 00:00:00 Findings: 67 MG/L  
 Chemical: CHLORIDE

Sample Collected: 03/07/2002 00:00:00 Findings: 330 MG/L  
 Chemical: TOTAL DISSOLVED SOLIDS

Sample Collected: 03/07/2002 00:00:00 Findings: 4 NTU  
 Chemical: TURBIDITY, LABORATORY

Sample Collected: 03/07/2002 00:00:00 Findings: 35 MG/L  
 Chemical: CALCIUM

Sample Collected: 03/07/2002 00:00:00 Findings: 17 MG/L  
 Chemical: MAGNESIUM

Sample Collected: 03/07/2002 00:00:00 Findings: 54 MG/L  
 Chemical: SODIUM

Sample Collected: 03/07/2002 00:00:00 Findings: 22 MG/L  
 Chemical: FLUORIDE (F) (NATURAL-SOURCE)

Sample Collected: 03/07/2002 00:00:00 Findings: 270 UG/L  
 Chemical: BORON

Sample Collected: 03/07/2002 00:00:00 Findings: 5.2 UG/L  
 Chemical: VANADIUM

Sample Collected: 03/07/2002 00:00:00 Findings: 1.6 UG/L  
 Chemical: BROMODICHLORMETHANE (THM)

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Sample Collected:	03/07/2002 00:00:00	Findings:	1.2 UG/L
Chemical:	BROMOFORM (THM)		
Sample Collected:	03/07/2002 00:00:00	Findings:	2.6 UG/L
Chemical:	DIBROMOCHLOROMETHANE (THM)		
Sample Collected:	09/18/2002 00:00:00	Findings:	290 UG/L
Chemical:	BORON		
Sample Collected:	09/18/2002 00:00:00	Findings:	5.2 UG/L
Chemical:	VANADIUM		
Sample Collected:	12/17/2002 00:00:00	Findings:	260 UG/L
Chemical:	BORON		
Sample Collected:	12/17/2002 00:00:00	Findings:	1.4 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	12/17/2002 00:00:00	Findings:	2.1 UG/L
Chemical:	DIBROMOCHLOROMETHANE (THM)		
Sample Collected:	06/25/2002 00:00:00	Findings:	17.8 UG/L
Chemical:	TOTAL TRIHALOMETHANES		

3  
East  
1/2 - 1 Mile  
Higher

FED USGS USGS3160574

Agency cd:	USGS	Site no:	340742118144801
Site name:	001S013W04L003S		
Latitude:	340742		
Longitude:	1181448	Dec lat:	34.12834183
Dec lon:	-118.24757455	Coord meth:	M
Coord acc:	S	Lat/long datum:	NAD27
Dec lat/long datum:	NAD83	District:	06
State:	06	County:	037
Country:	US	Land nat:	Not Reported
Location map:	LOS ANGELES	Map scale:	24000
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Los Angeles, California. Area = 819 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Data construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	268	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	9479336800		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS  
RADON**

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zip	Total Sites	> 4 pCi/L	Pct. > 4 pCi/L
91204	1	0	0.00

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.  
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.  
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <= 4 pCi/L	% 4-20 pCi/L	% > 20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	96%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

## 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.

### HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

### HYDROGEOLOGIC INFORMATION

#### **AQUIFLOW[®] 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 Services  
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 Services (NRCS)  
Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, 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.

### 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.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

##### **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.

### STATE RECORDS

#### **Water Well Database**

Source: Department of Water Resources  
Telephone: 916-851-8648

#### **California Drinking Water Quality Database**

Source: Department of Health Services  
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.

### OTHER STATE DATABASE INFORMATION

#### **California Oil and Gas Well Locations**

Source: Department of Conservation  
Telephone: 916-323-1779

### RADON

#### **State Database: CA Radon**

Source: Department of Health Services  
Telephone: 916-324-2208  
Radon Database for California

#### **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 States 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.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### STREET AND ADDRESS INFORMATION

© 2007 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.





City of Glendale Water & Power

# WQR.06

## 2006 Water Quality Report

### **IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER**

The water delivered to you by Glendale Water & Power continuously passes tough State and Federal quality standards.

This booklet is a detailed report on the water we delivered to you in 2006. You can be assured that your Glendale water is of the highest quality and is **SAFE TO DRINK**.

City of Glendale Water & Power

# WATER QUALITY

## 2006 Water Quality Report to our Customers

### Sustaining top-quality water in Glendale requires a dedicated joint effort to meet your drinking water expectations.

The Glendale City Council and the Glendale Water & Power Commission regularly address issues that affect the quality of your water.

The GWP Water Section, through constant attention, maintains an excellent water system that continuously meets all State and Federal drinking water regulations. This is accomplished by on-going testing of our water and continual improvements to our water system facilities. Through these water quality maintenance programs, we make certain that we continue our tradition of providing you with a reliable, safe, high-quality supply of water.

The tables inside this report list all the chemicals that were detected in Glendale's water during the 2006 calendar year. The presence of these in the water does not indicate that the water poses a health risk. This data reflects testing done between January 1, 2006 through December 31, 2006, unless otherwise noted. We tested your water for over 165 contaminants in 2006.

WHERE DOES YOUR DRINKING WATER COME FROM?		
SOURCE	ACRE FEET	PERCENTAGE
Metropolitan Water District	22,258	71%
Glendale Water Treatment Plant	6,523	21%
Glorietta Wells and Verdugo Park Water Treatment Plant	2,648	8%
TOTAL DRINKING WATER: 31,429 acre feet = 10.24 billion gallons		

### COMMON CONTAMINANTS IN DRINKING WATER

The sources of drinking water for both tap water and bottled water include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases, radioactive material. It can also pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, are byproducts of industrial process and petroleum production. They can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants can be either naturally occurring or the result of oil and gas production, and mining activities.

#### Sources of Glendale's Water

In 2006, Glendale Water & Power delivered 10.24 billion gallons of potable (drinking water quality) water to the City's customers. 71% of that water was purchased from the Metropolitan Water District (MWD). This water is imported from Northern California. Before it is delivered to Glendale, it is treated at MWD's treatment plant in Granada Hills and is monitored by MWD in their water quality laboratory.

Eight percent (8%) of GWP water came from the City's Glorietta Wells and the Verdugo Park Water Treatment Plant. Groundwater extracted from the San Fernando Basin and conveyed through the Glendale Water Treatment Plant accounted for 21% of our supplies. Water from both the Verdugo Basin and the San Fernando Basin is blended with MWD water before being delivered throughout the City.

Source water assessments were conducted in 2000, and updated in 2006, for wells in the Verdugo Basin. Located in primarily urban areas, they are considered to be most vulnerable to contamination from underground gasoline storage tanks and installed sewer lines. Programs to control contamination from fertilizers and pesticides were put in place in 2000 and private septic systems have been eliminated. Two of the wells are potentially vulnerable to contamination from a gasoline station that was previously located in the basin. Before being introduced into the system, water from two of the wells is treated at the Verdugo Park Water Treatment Plant and water from three of the wells is blended with water from MWD.

In addition, GWP also delivered 380 million gallons of recycled water. This is not included in the chart above as it is used for irrigation purposes only and not for drinking water.

### A Message From Ignacio Troncoso

Director of Glendale Water & Power



Every year, GWP provides you with a report on the quality of the drinking water we delivered to you the previous year. This booklet is our report for 2006. As you read through it, you will see that Glendale's water continues to meet all Federal and State quality standards.

It is not a simple task to maintain a healthy, reliable, safe drinking water supply. It requires a large investment in infrastructure and resources as well as people. In 2006, we made great strides in all of these areas.

We installed a new circulating system in all our reservoirs that will help maintain our top-quality water. This improved technology, the SolarBee, takes the place of our bottom piping circulation system (see page 3).

On the chemical side, we are investigating different approaches in the chemical treatment of our water. We are studying the use of chlorite, a new technology that could enhance the effectiveness and stability of the chemicals presently used and minimize the amount of chlorine needed (see page 5).

GWP is also continuing our leadership role in the development of a technology to remove chromium 6 from drinking water. The objective of the final stage of a three phase program is to construct full-capacity demonstration facilities at the Glendale Water Treatment Plant.

We could not continue to deliver our high quality water if it weren't for our GWP employees' sense of responsibility in serving you, our customers. Through their commitment to ongoing training and education, our GWP employees have become certified specialists in their fields and bring expert skills to safeguarding the quality of your water.

### Water Quality Terms You Will Find in This Report

- **Maximum Contaminant Level Goal (MCLG)** is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency (USEPA).
- **Public Health Goal (PHG)** is the level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.
- **Maximum Contaminant Level (MCL)** is the highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.
- **Maximum Residual Disinfectant Level (MRDL)** is the level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap.
- **Maximum Residual Disinfectant Level Goal (MRDLG)** is the level of a disinfectant added for water treatment below which there is no known or expected risk to health. MRDLGs are set by the USEPA.
- **Notification Level** is the advisory levels developed by California Dept. of Health Services (DHS).
- **Primary Drinking Water Standard (PDWS)** is the maximum contaminant and maximum disinfection residual level for contaminants that affect health. This standard reflects monitoring, reporting, and water treatment requirements.
- **Regulatory Action Level** is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

### WHAT WE ACCOMPLISHED IN 2006

#### Water System Improvement Projects

There are 380 miles of water mains in Glendale with the average age of 55 years. Glendale Water & Power has an ongoing citywide program of improving our water system with main replacement and cleaning and lining projects. By the end of 2006, we had replaced over 8,000 feet of water mains for the year. In many areas where the structural integrity of the pipe is in question, we are replacing 4-inch diameter cast iron mains with new 8-inch ductile iron mains. The goal of this ongoing program is to increase water flow, improve water quality and expand fire protection for all our GWP customers.



#### Reservoir Replacement Project

In 2006, work continued on a major infrastructure project in the Chevy Chase Canyon area – the replacement of a 14.5 million gallon concrete reservoir constructed in the 1920's. The Environmental Review was completed in early 2006, a design consultant was hired as well as a construction management consultant and, by the end of 2006, the Preliminary Design was nearly complete. In 2007, the final design will be completed and the project will be advertised for construction bids. Construction is expected to begin by early 2008 and requires two years to complete.





### SolarBee Helps Maintain High Water Quality

The newest “buzz” at Glendale Water & Power is the introduction of the SolarBee into our water system. A technology also used by other water agencies in California, the SolarBee is a solar-powered circulator that improves the quality of water stored in reservoirs by constantly circulating the water.

To maintain our high level of water quality, in 2006, GWP installed SolarBee water circulators in all our reservoirs and recycled water tanks. With the SolarBee floating in the reservoir, up to 10,000 gallons of water per minute can be constantly circulated with a minimum amount of turbulence. Solar panels atop the reservoir charge a large battery which then powers the pump motor to keep water circulating inside the reservoir. Since the battery is always fully charged, the SolarBee works continuously even on rainy and cloudy days.



To maintain a safe and healthy water system, different levels of disinfectant are added to our reservoirs each week. It's important that the water inside our reservoirs circulates so that the disinfectant mixes evenly.

### IMPORTANT INFORMATION FOR PEOPLE WITH COMPROMISED IMMUNE SYSTEMS

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections.

People with weakened immune systems should seek advice about drinking water from their health care providers. The U.S. Environmental Protection Agency (USEPA) and the Centers for Disease Control (CDC) provide guidelines on appropriate means to lessen the risk of infection from Cryptosporidium and other microbial contaminants. Information is also available from the Safe Drinking Water Hotline (1-800-426-4791).

**Nitrate** levels in the Glendale distribution system do not exceed the 45 parts per million (ppm) limit established by State and Federal regulations. Nitrate in drinking water at levels above 45 ppm is a health risk for infants of less than six months of age. It can interfere with the capacity of the infant's blood to carry oxygen, resulting in a serious illness. Symptoms include shortness of breath and blueness of the skin. Nitrate levels above 45 ppm may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant or you are pregnant, you should ask for advice from your health care provider.

## DETECTED CONTAMINANTS AT GLENDALE'S WATER SOURCES

	Units	State MCL	PHG or (MCLG)		MWD Jensen Plant	Glendale Water Treatment Plant (d)	Glorietta Wells (d)	Verdugo Park Water Treatment Plant (d)	Major Sources of Contaminants in Drinking Water
<b>ORGANIC CHEMICALS</b>									
Tetrachloroethylene (PCE)	ppb	5	0.06	Range	ND	ND	ND - 3.5	ND	Discharge from factories, dry cleaners, and auto shops
				Average					
<b>INORGANIC CHEMICALS</b>									
Aluminum (a)	ppb	1000	600	Range	ND - 110	ND - 39	ND - 65.6	12.2 - 62.6	Residue from water treatment process; natural deposits erosion
				Average	81	1	20.86	37.4	
Antimony	ppb	6	20	Range	ND	ND - 3.7	ND	ND	Petroleum refinery discharges; fire retardants; solder; electronics
				Average		0.7			
Arsenic	ppb	10	0.004	Range	ND	ND - 2.2	ND	ND - 2.53	Natural deposits erosion, glass and electronics production wastes
				Average		0.08		1.27	
Barium	ppm	1	2	Range	ND	0.056 - 0.080	0.086 - 0.150	0.08 - 0.14	Oil and metal refinery; aerospace discharges; natural deposits erosion
				Average		0.070	0.120	0.11	
Beryllium	ppb	4	0.1	Range	ND	ND - 1.4	ND	ND	Discharge from metal refineries; aerospace, and defense industries
				Average		0.03			
Cadmium	ppb	5	0.04	Range	ND	ND - 1.4	ND	ND	Internal corrosion of galvanized pipes; natural deposits erosion
				Average		0.03			
Total Chromium	ppb	50	(100)	Range	ND	3.2 - 17.0	ND - 2.19	ND - 1.66	Discharge from steel and pulp mills; natural deposits erosion
				Average		10.0	1.12	0.83	
Fluoride	ppm	2	1	Range	0.16 - 0.22	NA	0.157 - 0.203	0.224 - 0.227	Erosion of natural deposits; water additive for dental health
				Average	0.18		0.180	0.230	
Nickel	ppm	100	12	Range	ND	ND - 28	ND - 0.0064	ND - 0.005	Erosion of natural deposits; discharge from metal factories
				Average		1.5	0.0033	0.003	
Nitrate (as N) (b)	ppm	10	10	Range	ND - 0.54	3.1 - 6.3	NA	NA	Runoff and leaching from fertilizer use; sewage; natural erosion
				Average	0.47	5.3			
Selenium	ppb	50	(50)	Range	ND	ND - 5.5	ND - 3.88	ND - 6.2	Refineries, mines, and chemical waste discharges; runoff; natural deposits
				Average		0.11	0.92	3.1	
Thallium	ppb	2	0.1	Range	ND	ND - 1.4	ND	ND	Leaching from ore-processing electronics factory discharges
				Average		0.06			
<b>RADIOLOGICALS</b>									
Gross Alpha Particle Activity	pCi/L	15	0	Range	ND - 4.2	NA	NA	7.78 - 8.71	Erosion of natural deposits
				Average	ND			8.07	
Gross Beta Particle Activity	pCi/L	50	0	Range	ND	NA	NA	1.83 - 2.39	Decay of natural and man-made deposits
				Average				2.11	
Combined Radium (c)	pCi/L	5	0	Range	ND	NA	ND - 2.53	ND - 1.01	Erosion of natural deposits
				Average			0.86	0.69	
Uranium	pCi/L	20	0.43	Range	1.1 - 1.2	NA	NA	ND	Erosion of natural deposits
				Average	1.2				
<b>REGULATED CONTAMINANTS WITH SECONDARY MCLS</b>									
Chloride	ppm	500	NS	Range	44 - 56	31 - 64	95.7 - 137	117 - 120	Runoff/leaching from natural deposits; seawater influence
				Average	54	58	122.33	118.5	
Iron	ppb	300	NS	Range	ND	ND	ND	ND - 2.56	Leaching from natural deposits; industrial wastes
				Average				1.28	
Manganese	ppb	50	NL = 500	Range	ND	ND - 3.7	ND - 2.18	ND	Leaching from natural deposits
				Average		0.51	0.73		
Silver	ppb	100	NS	Range	ND	ND - 0.74	ND	ND	Industrial discharges
				Average		0.01			
Sulfate	ppm	500	NS	Range	56 - 86	71 - 150	160 - 191	250 - 303	Runoff/leaching from natural deposits; industrial wastes
				Average	69	128	176.43	276.5	
Total Dissolved Solids (TDS)	ppm	1000	NS	Range	236 - 304	512 - 556	540 - 738	759 - 846	Runoff/leaching from natural deposits; seawater influence
				Average	273	536	664	802.5	
Turbidity	NTU	5	NS	Range	0.04	ND - 0.15	ND	ND - 0.24	Soil runoff
				Average	0.04	0.07		0.03	
Zinc	ppb	5000	NS	Range	ND	ND	2.14 - 9.87	7.26 - 44.5	Runoff/leaching from natural deposits; industrial wastes
				Average			5.81	25.88	

#### Abbreviations

NA = Not Analyzed  
 ND = None Detected  
 NL = Notification Level  
 NS = No Standard  
 AL = Regulatory Action Level  
 PHG = Public Health Goal  
 ppb = parts per billion  
 ppm = parts per million  
 pCi/L = picoCurries per liter

NTU = Nephelometric Turbidity Units  
 DLR = Detection Limits for purposes of reporting  
 MCL = Maximum Contaminant Level  
 MCLG = Maximum Contaminant Level Goal  
 MRDL = Maximum Residual Disinfectant Level  
 MRDLG = Maximum Residual Disinfectant Level Goal  
 MWD = Metropolitan Water District of Southern California

#### Chart Notes

a) Aluminum has a secondary MCL of 200 ppb.  
 b) State MCL is 45 ppm as nitrate which is equal to 10 ppm as N.  
 c) Standard is for Radium-226 and -228 combined.  
 d) These results were before blending unless otherwise noted.

#### Footnotes

1. Source waters are blended to decrease the concentrations of contaminants which results in an increase in the quality of the water we deliver to your homes and businesses.  
 2. Chlorate has a DHS Notification Level of 800 ppb. Chlorate was formed during the chlorite study in Glenoaks Canyon and observed to be a by-product of liquid chlorine.

**UNREGULATED CONTAMINANT MONITORING REGULATION (US EPA)**

The Unregulated Contaminant Monitoring Regulation is a revision to the Safe Drinking Water Act. It requires Glendale to monitor for 11 contaminants that are currently unregulated. The contaminants are listed below and all analyses have been non-detect. Glendale sampled four groundwater sources requiring semi-annual test and one surface water source requiring quarterly test. An administrative order was received from EPA because two quarterly tests were incomplete due to laboratory interaction and one semi-annual test was late.

2,4-Dinitrofluorene	DCPA di and mono-acid dehydrate	Molinate	Perchlorate
2,6-Dinitrofluorene	Dichlorodiphenyldichloroethylene (4,4'-DDE)	MTBE (d)	Terbacil
Acetochlor	s-ethyl dipropylthiocarbamate (EPTC)	Nitrobenzene	

**UNREGULATED CHEMICAL MONITORING REGULATION (California Department of Health Services)**

The California Department of Health Services required the monitoring of nine unregulated chemicals. Six that were below detectable levels are listed below. The results from the remaining three are tabulated at right.

Dichlorodifluoromethane (Freon 12)	Perchlorate	tert-Butyl alcohol (TBA)
Ethyl-tert-butyl-ether (ETBE)	tert-Amyl-methyl-ether (TAME)	Trichloropropane (1,2,3-TCP)

DETECTED CONTAMINANTS AT GLENDALE'S WATER SOURCES								
	Units	Notification Level	State DLR	MWD Jensen Plant	Glendale Water Treatment Plant (d)	Glorietta Wells (d)	Verdugo Park Water Treatment Plant (d)	Major Sources of Contaminants in Drinking Water
STATE REGULATED CONTAMINANTS WITH NO MCLS								
Boron	ppb	1000	100	Range	150 - 210	0.16 - 0.24	NA	Runoff/leaching from natural deposits; industrial wastes
				Average	190	0.20	NA	
Chromium VI	ppb	NS	1	Range	0.07 - 0.10	3.6 - 12.0	NA	Industrial waste discharge
				Average	0.09	9.6 (h)	ND	
Vanadium	ppb	50	3	Range	ND	ND - 7.7	NA	Naturally occurring; industrial waste discharge
				Average		5.4	NA	

**WATER QUALITY MAINTENANCE AND REGULATION**

The City uses both chlorine and chloramines for disinfection. Some locations may alternate from chloramines to chlorine depending on operating conditions. Customers with special water quality needs such as kidney dialysis or aquariums should prepare for removal of chloramines as well as chlorine. GWP also uses additional programs to maintain the high quality of our water including: flushing distribution water mains, maintaining an effective cross-connection control program, cleaning reservoirs and tanks, and conducting water quality testing in storage facilities and water mains throughout the City.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

**State and Federal Agencies**

To ensure that tap water is safe to drink, the California Department of Health Services (CDHS) and the USEPA prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. CDHS regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

State and Federal agencies thoroughly regulate the water we deliver to our customers by requiring significant water quality sampling. They require over 8,000 tests each year. The laboratory testing costs alone are over \$100,000 annually, plus staff time involved in collecting the water samples. Additionally, the State inspects our water system and reviews the test results to ensure that required sampling is occurring and that we meet all regulatory requirements.

LEAD AND COPPER RULE (f)						
	Units	Action Level	PHG	Number of Samples	90th Percentile	Major Sources of Contaminants in Drinking Water
SAMPLES FROM CUSTOMER STAPS (COLLECTED EVERY 3 YEARS)						
Copper (g)	ppb	1300	170	51	400	Internal corrosion of household pipes; erosion of natural deposits
Lead	ppb	15	2	51	4.5	Internal corrosion of household pipes; erosion of natural deposits

CITYWIDE SAMPLING						
	Units	State MCL [MRDL]	PHG (MCLG) [MRDLG]	Average	Range	Major Sources of Contaminants in Drinking Water
SAMPLES FROM DISTRIBUTION SYSTEM						
Total Coliform Bacteria	%	5.0 (e)	0	0.06%	0 - 0.66	Naturally present in the environment
Fecal Coliform and E. Coli		(e)		0	0	Human and animal fecal waste
Total Trihalomethanes (TTHM) (l)	ppb	80	NS	27.9	3.7 - 81.9	By-product of drinking water chlorination
Haloacetic Acids (HAA5) (l)	ppb	60	NS	12.9	2.0 - 30.3	By-product of drinking water chlorination
Total Chlorine Residual	ppm	[4]	[4]	1.35	0.02 - 3.67	Drinking water disinfectant added for treatment

**Water Fluoridation Set to Begin at End of 2007**

In 1995, California enacted legislation that requires large public water systems to fluoridate their water supply if funding is provided. Metropolitan Water District (MWD) received funding for this process and is planning to begin adding fluoride to their treated water supply. Public notices will be issued when the exact date has been determined. Because Glendale receives 70% of our water from MWD, this will affect our water supplies as well.

According to extensive research conducted over the past 50 years, drinking water fluoridation is safe and healthy. Fluoride benefits people of all ages. Fluoridated water, as part of your diet, will provide about 60 percent of the protection necessary to fight against cavities. Fluoride strengthens tooth enamel making teeth more resistant to decay. It also prevents cavities in the root surfaces of teeth for older adults when their gums begin to recede.

As always, please contact our Water Quality Section if you have any questions about your water supply.

**Chlorite Study**

The drinking water Glendale Water & Power purchases from Metropolitan Water District contains the disinfectant chloramines, a chlorine/ammonia mixture that provides continuous disinfection throughout the distribution system.

Every week, GWP staff members test the level of disinfectant in our distribution system. Based on this monitoring, GWP staff determine the amount of chlorine that needs to be added to the water to help maintain the stability of the chloramines. The higher temperatures in the summer months necessitate our increasing the chlorine additions to help maintain the chloramines residual level.

Working with the California Department of Health Services, GWP is studying the use of chlorite, a new technology that will enhance the effectiveness and stability of chloramines while minimizing the amount of chlorine that needs to be added to the distribution system. Chlorite is added at 0.6 ppm. This study, which is intended to continue through the summer and fall of 2007, is being conducted in the Glenoaks Canyon area of Glendale.

**Charts Notes**

- e) Total coliform MCLs: no more than 5% of the monthly samples may be total coliform-positive. Compliance is based on combined distribution system sampling. In 2006, 1,964 samples were analyzed. The MCL was not violated.
- f) Lead and Copper Rule compliance is based on 90th percentile being below the Action Level.
- g) Copper has a secondary MCL of 1000 ppb.
- h) Analysis was on sample blended with MWD supply.
- i) Compliance is based on system-wide annual average.
- j) Bromate has an MCL of 10 ppb.
- k) Hardness in grains/gallon can be found by dividing the ppm by 17.1. 120 ppm = 7.02 grains/gallon.

WATER CONSTITUENTS OF INTEREST TO THE PUBLIC						
	Units	MWD Jensen Plant	Glendale Water Treatment Plant (d)	Glorietta Wells (d)	Verdugo Park Water Treatment Plant (d)	
Alkalinity	ppm	Range	76 - 87	235	201 - 254	220.00
		Average	82		226.5	
Bromate (j)	ppb	Range	3.3 - 7.2	NA	NA	NA
		Average	5.6			
Calcium	ppm	Range	24 - 29	NA	94.2 - 150.0	130 - 185
		Average	27		123.9	157.5
Chlorate	ppb	Range	26 - 76	ND - 377	NA	NA
		Average		164		
Hardness (k)	ppm	Range	110 - 128	NA	420 - 550	480 - 570
		Average	120		479.33	375
Magnesium	ppm	Range	11 - 13	NA	31.8 - 46.3	53.9 - 46.1
		Average	12		40.63	50
N - Nitrosodimethylamine (NDMA)	ppt	Range	ND - 3.0	ND	NA	NA
		Average				
pH	pH Units	Range	8.1 - 8.3	8.0 - 8.4	6.4 - 7.6	6.5 - 8.9
		Average	8.2	8.2	6.9	6.98
Potassium	ppm	Range	2.3 - 2.8	NA	3.57 - 4.85	4.47 - 5.12
		Average	2.6		4.38	4.80
Sodium	ppm	Range	39 - 56	NA	27.3 - 54.6	35.1 - 62.3
		Average	47		38.96	48.7
TOC	ppm	Range	2.2 - 2.8	NA	NA	NA
		Average	2.4			



City of  
**Glendale**  
Water & Power  
**GWP**  
Reliable • Competitive • Trusted

PRESORTED  
STANDARD  
U.S. POSTAGE  
**PAID**  
GLENDALE, CA 912  
PERMIT #1728

# WQR.06

City of Glendale Water & Power  
2006 Water Quality Report



## City of Glendale Water & Power 2006 Water Quality Report to Our Customers

**This information is very important.** Please have someone translate it for you or contact the City for a translation as follows:

**Esta informacion es muy importante.** Por favor pidala a alguien que se lo traduzca. O llame a la Ciudad para una traduccion. Leonardo Bocanegra (818) 548-2062.

Այս տեղեկությունը շատ կարևոր է: Խնդրում ենք մեկին խնդրեք որ ձեզ համար թարգմանի:  
**Shant Boodanian (818) 550-4759.**

이것은 아주 중요한 정보입니다. 다른 사람에게 번 역을 부탁해 주십시오. **Nancy Park (818) 548-2041.**

### Customer Participation and Assistance

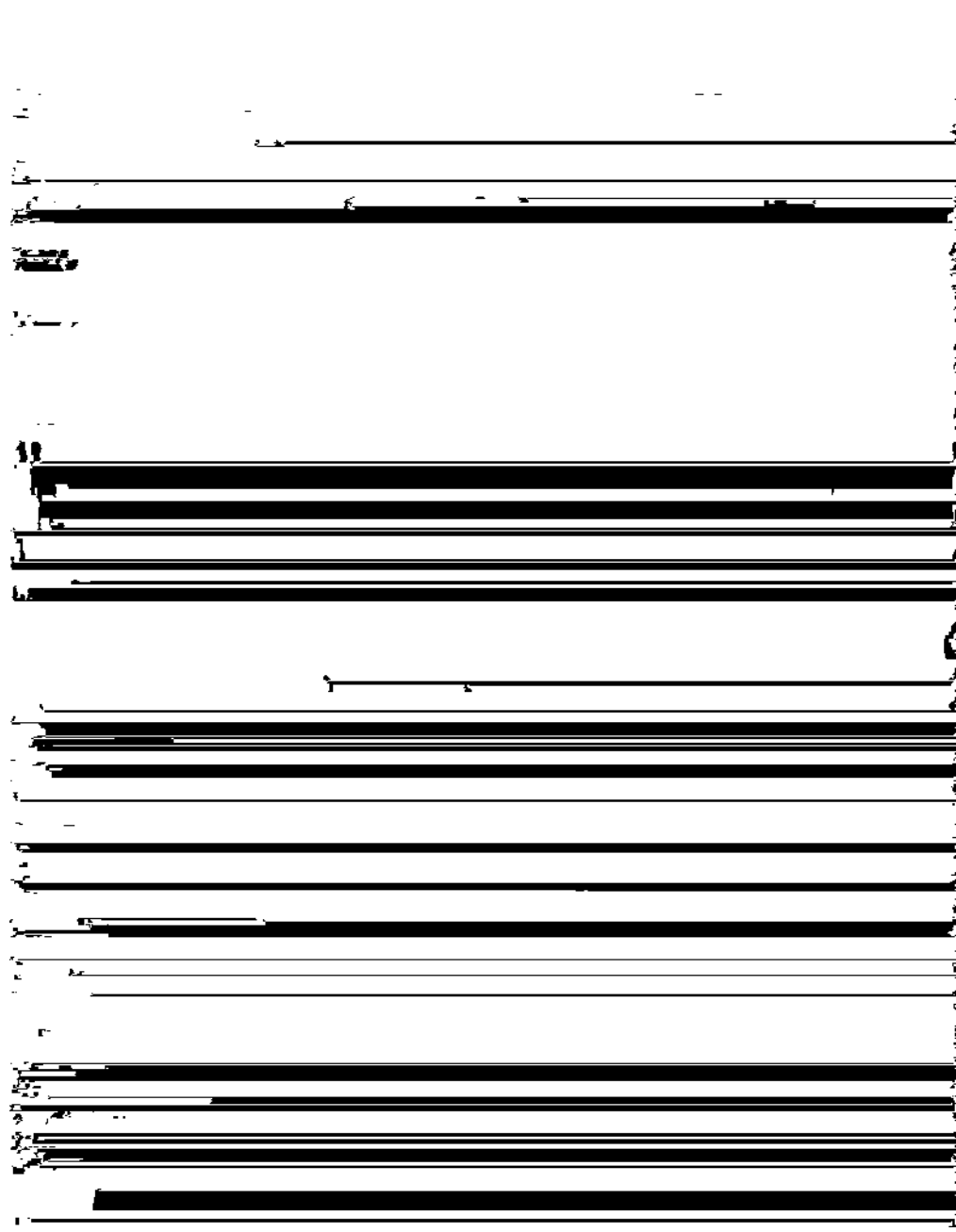
Comments from the public are welcome and may be presented at the Glendale Water and Power Commission meetings held the first Monday of each month, at 4:00 PM, in the Glendale City Council Chambers, 613 E. Broadway.

If you have any questions regarding the quality of your drinking water or would like more information about Glendale water, please write to:  
Ray Notario

Water Quality Section, Glendale Water & Power  
141 N. Glendale Avenue, Level 4, Glendale, CA 91206 or call (818) 548-3962 or 548-2062.  
After hours and for water emergencies call (818) 548-2011.

You may also visit our website at [www.GlendaleWaterAndPower.com](http://www.GlendaleWaterAndPower.com)

More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).



**Calif. Manifest Counts and Total Tonnage**

Top line represents Manifest Count and Bottom line represents Total Tonnage

	GENERATOR	TRANS. 1	TRANS. 2	TSDF	Alt. TSDF
1997	1 0.0175				
1998	1 0.0500				
1999	1 0.0500				

**Non California Manifest Total Tonnage**

**Waste Code By Year By Entity Matrix Report  
(based on California Manifests only)**

Calif.	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF
RCRA	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF

**California Waste Code By Year Matrix**

ID Number: CAL000101007

Entity Type: GENERATOR

Weight (in Tons)

Ship Years

Calif. Code	Description	1997	1998	1999
541	PHOTOCHEMICALS / PHOTOPROCESSING WASTE	0.0175	0.0500	0.0500
<b>Grand Total</b>		<b>0.0175</b>	<b>0.0500</b>	<b>0.0500</b>

Form 77

GLENDALE FIRE DEPARTMENT No 362  
Bureau of Fire Prevention  
210 South Orange Street  
Citrus 1-3134 Date 7-18-52

PERMIT

FOR KEEPING, STORAGE, USE, MANUFACTURE, HANDLING, TRANSPORTATION, OR OTHER DISPOSITION OF HIGHLY INFLAMMABLE, COMBUSTIBLE, OR EXPLOSIVE MATERIALS, as stated below:

TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Code of the City of Glendale.

PRATTY COMPANY (BY W. PRATTY)

Name of concern or individual

Located at 465 WEST LOS FELIZ, GLENDALE, CALIF.

conducting a RUBBER PICK UP SERVICE (Business)

having made application in due form, and as the conditions, surroundings, and arrangements are, in my opinion, such that the intent of the Regulations can be

observed, authority is hereby given and this PERMIT IS GRANTED for

STORAGE AND USE OF 10,000 GALLONS GASOLINE STORED IN UNDERGROUND TANK INSTALLED UNDER PERMIT NO. 355. OPERATIONS SUBJECT TO COMPLIANCE TO FIRE PREVENTION CODE AND THE FOLLOWING RESTRICTIONS: 1. NO SMOKING OR OPEN FLAME WITHIN 25 FT. OF FILL PIPE OR DISPENSING APPARATUS. 2. INSTALL AND MAINTAIN ONE 15 LB. CO-2 OR DRY POWDER FIRE EXTINGUISHER IN CONSPICUOUS AND EASILY ACCESSIBLE LOCATION.

This PERMIT is issued and accepted on condition that all provisions of the Fire Prevention Code of the City of Glendale as now adopted, or that may hereafter be adopted, shall be complied with. Any violation of these Provisions may be ground for the revocation of this permit.

A. W. HUNT, Chief of the Bureau of Fire Prevention

By [Signature]

This permit does not take the place of any license required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES MENTIONED ABOVE.

Form No. 77

GLENDALE FIRE DEPARTMENT No 807  
Bureau of Fire Prevention  
210 South Orange Street  
Citrus 1-3134 Date August 23, 1954

PERMIT

FOR KEEPING, STORAGE, USE, MANUFACTURE, HANDLING, TRANSPORTATION, OR OTHER DISPOSITION OF HIGHLY INFLAMMABLE, COMBUSTIBLE, OR EXPLOSIVE MATERIALS, as stated below:

TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Code of the City of Glendale.

GLSEN-WEISS & CO.

Name of concern or individual

Located at 465 West Los Feliz

conducting a Frozen Food Business (Business)

having made application in due form, and as the conditions, surroundings, and arrangements are, in my opinion, such that the intent of the Regulations can be

observed, authority is hereby given and this PERMIT IS GRANTED for

STORAGE AND USE of 550 gallons of gasoline in underground tank for use in company trucks for 60 days. Weekly tests to be made of contents of tank to determine if any leakage is occurring due to age of tank. (RENEWAL OF PERMIT 522)

This PERMIT is issued and accepted on condition that all provisions of the Fire Prevention Code of the City of Glendale as now adopted, or that may hereafter be adopted, shall be complied with. Any violation of these Provisions may be ground for the revocation of this permit.

A. W. HUNT, Fire Marshal, Chief of the Bureau of Fire Prevention

By [Signature]

This permit does not take the place of any license required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES MENTIONED ABOVE.

## GLENDALE FIRE DEPARTMENT

Bureau of Fire Prevention

210 South Orange Street  
Citrus 1-3134

No 825

Date Nov. 18, 1954

## PERMIT

FOR KEEPING, STORAGE, USE, MANUFACTURE, HANDLING, TRANSPORTATION,  
OR OTHER DISPOSITION OF HIGHLY INFLAMMABLE, COMBUSTIBLE, OR EX-  
PLOSIVE MATERIALS, as stated below:

TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Code of the City of Glendale.

GLEN-WEBB & CO.

Name of concern or individual

Located at 165 West Los Felizconducting a Frozen Food Business

(Business)

having made application in due form, and as the conditions, surroundings, and  
arrangements are, in my opinion, such that the intent of the Regulations can be

observed, authority is hereby given and this PERMIT IS GRANTED for

STORAGE AND USE OF 550 gallons of gasoline in undergroundtank for use in company trucks for 60 days. Weekly teststo be made of contents of tank to determine if any leakageis occurring due to age of tank. (RENEWAL OF PERMIT 807)This PERMIT is issued and accepted on condition that all provisions of the Fire  
Prevention Code of the City of Glendale as now adopted, or that may hereafter  
be adopted, shall be complied with. Any violations of these Provisions may be  
ground for the revocation of this permit.

A. W. HUNT, Fire Marshal

Chief of the Bureau of Fire Prevention

By

B. W. EddyThis permit does not take the place of any License required by law  
and is not transferable. Any change in the use or occupancy of premises  
shall require a new permit.THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES  
MENTIONED ABOVE.

## GLENDALE FIRE DEPARTMENT

Bureau of Fire Prevention

210 South Orange Street  
Citrus 1-3134

No 871

Date April 29, 1955

## PERMIT

FOR KEEPING, STORAGE, USE, MANUFACTURE, HANDLING, TRANSPORTATION,  
OR OTHER DISPOSITION OF HIGHLY INFLAMMABLE, COMBUSTIBLE, OR EX-  
PLOSIVE MATERIALS, as stated below:

TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Code of the City of Glendale.

GLEN-WEBB & CO.

Name of concern or individual

Located at 165 West Los Felizconducting a Frozen Food Business

(Business)

having made application in due form, and as the conditions, surroundings, and  
arrangements are, in my opinion, such that the intent of the Regulations can be

observed, authority is hereby given and this PERMIT IS GRANTED for

STORAGE AND USE OF 550 gallons of gasoline in undergroundtank for use in company trucks for 60 days. Weekly teststo be made of contents of tank to determine if any leakageis occurring due to age of tank. (RENEWAL OF PERMIT 825)This PERMIT is issued and accepted on condition that all provisions of the Fire  
Prevention Code of the City of Glendale as now adopted, or that may hereafter  
be adopted, shall be complied with. Any violations of these Provisions may be  
ground for the revocation of this permit.

A. W. HUNT, Fire Marshal

Chief of the Bureau of Fire Prevention

By

B. W. EddyThis permit does not take the place of any License required by law  
and is not transferable. Any change in the use or occupancy of premises  
shall require a new permit.THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES  
MENTIONED ABOVE.



Form No. 7-55

GLENDALE FIRE DEPARTMENT  
Bureau of Fire Prevention  
210 South Orange Street  
Citrus 1-3134

No 881

Date August 3, 1955

**PERMIT**

FOR KEEPING, STORAGE, USE, MANUFACTURE, HANDLING, TRANSPORTATION,  
OR OTHER DISPOSITION OF HIGHLY INFLAMMABLE, COMBUSTIBLE, OR EX-  
PLOSIVE MATERIALS, as stated below:

TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Code of the City of Glendale,

GLENN WEBB & CO.

Name of concern or individual

Located at 465 West Los Feliz

conducting a Frozen Food Business  
(Business)

having made application in due form, and on the conditions, surroundings, and  
arrangements are, in my opinion, such that the intent of the Regulations can be

observed, authority is hereby given and this PERMIT IS GRANTED for

STORAGE AND USE OF 550 gallons of gasoline in underground

tank for use in company trucks for 60 days. Weekly tests

to be made of contents of tank to determine if any leakage

is occurring due to age of tank. (RENEWAL OF PERMIT \$25)

This PERMIT is issued and accepted on condition that all provisions of the Fire  
Prevention Code of the City of Glendale as now adopted, or that may hereafter  
be adopted, shall be complied with. Any violations of these Provisions may be  
ground for the revocation of this permit.

A. W. HUNT, Fire Marshal  
Chief of the Bureau of Fire Prevention

By Bruce Eddy

This permit does not take the place of any license required by law  
and is not transferable. Any change in the use or occupancy of premises  
shall require a new permit.

**THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES  
MENTIONED ABOVE.**

Form No. 7-55

GLENDALE FIRE DEPARTMENT  
Bureau of Fire Prevention  
210 South Orange Street  
Citrus 1-3134

No 900

Date Nov. 8, 1955

**PERMIT**

FOR KEEPING, STORAGE, USE, MANUFACTURE, HANDLING, TRANSPORTATION,  
OR OTHER DISPOSITION OF HIGHLY INFLAMMABLE, COMBUSTIBLE, OR EX-  
PLOSIVE MATERIALS, as stated below:

TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Code of the City of Glendale,

WOODY OVERTON

Name of concern or individual

Located at 441 N. Parish Place, Burbank

conducting a Contracting

(Business)

having made application in due form, and on the conditions, surroundings, and  
arrangements are, in my opinion, such that the intent of the Regulations can be

observed, authority is hereby given and this PERMIT IS GRANTED for

REMOVAL OF ONE (1) 550 GALLON UNDERGROUND TANK, AND

INSTALLATION OF ONE (1) 1,000 GALLON UNDERGROUND TANK +

IN LOCATION GIVEN TO MR. KENT MOORE BY THE FIRE MARSHAL,

1 1/2 Inch Vents.

This PERMIT is issued and accepted on condition that all provisions of the Fire  
Prevention Code of the City of Glendale as now adopted, or that may hereafter  
be adopted, shall be complied with. Any violations of these Provisions may be  
ground for the revocation of this permit.

LOCATION: 465 Los Feliz A. W. HUNT, FIRE MARSHAL  
Glenn Webb & Co. Chief of the Bureau of Fire Prevention

By Bruce Eddy

This permit does not take the place of any license required by law  
and is not transferable. Any change in the use or occupancy of premises  
shall require a new permit.  
**THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES  
MENTIONED ABOVE.**

GLENDALE FIRE DEPARTMENT No 727  
 Bureau of Fire Prevention  
 210 South Orange Street  
 Citrus 1-3134 Date Jan. 14, 1959

**PERMIT**

FOR KEEPING, STORAGE, USE, MANUFACTURE, HANDLING, TRANSPORTATION, OR OTHER DISPOSITION OF HIGHLY INFLAMMABLE, COMBUSTIBLE, OR EXPLOSIVE MATERIALS, as stated below:

TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Code of the City of Glendale.

GLENN WERE CO.

Name of concern or individual

Located at 465 W. Los Feliz

conducting a

(Business)

having made application in due form, and as the conditions, surroundings, and arrangements are, in my opinion, such that the intent of the Regulations can be

observed, authority is hereby given and this PERMIT IS GRANTED for

STORAGE AND USE of 1000 gallons of gasoline in underground tank, subject to the following conditions:

1. Install one 15 lb. CO-2 or equivalent dry powder type extinguisher in a conspicuous and accessible location.
2. No smoking or open flame allowed within 25 ft. of operation.
3. Install "No Smoking" signs.

This PERMIT is issued and accepted on condition that all provisions of the Fire Prevention Code of the City of Glendale as now adopted, or that may hereafter be adopted, shall be complied with. Any violations of these Provisions may be ground for the revocation of this permit.

J. M. HUNT  
 Chief of the Bureau of Fire Prevention

By

B. W. Eddy

This permit does not take the place of any License required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

**THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES MENTIONED ABOVE.**

GLENDALE FIRE DEPARTMENT No 1717  
 Bureau of Fire Prevention  
 210 South Orange Street  
 Citrus 1-3134 Date Mar. 28, 1962

**PERMIT**

FOR KEEPING, STORAGE, USE, MANUFACTURE, HANDLING, TRANSPORTATION, OR OTHER DISPOSITION OF HIGHLY INFLAMMABLE, COMBUSTIBLE, OR EXPLOSIVE MATERIALS, as stated below:

TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Code of the City of Glendale.

RAY DAVIS

Name of concern or individual

Located at 2316 W. Victory Blvd., Burbank

conducting a

contracting business at 466 W. Los Feliz.

(Business)

having made application in due form, and as the conditions, surroundings, and arrangements are, in my opinion, such that the intent of the Regulations can be

observed, authority is hereby given and this PERMIT IS GRANTED for

REINSTATE section and vent lines on the above premises)

to existing underground installation in an approved

manor, per submitted sketch.

This PERMIT is issued and accepted on condition that all provisions of the Fire Prevention Code of the City of Glendale as now adopted, or that may hereafter be adopted, shall be complied with. Any violations of these Provisions may be ground for the revocation of this permit.

R. R. ADAMS, FIRE CHIEF  
 Chief of the Bureau of Fire Prevention

By

E. J. Eddy

This permit does not take the place of any license required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

**THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES MENTIONED ABOVE.**

GLENDALE FIRE DEPARTMENT — BUREAU OF FIRE PREVENTION  
210 South Orange St. - Glendale 4, Calif.  
Citrus 1-3134

PERMIT

Nº 2151

## TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Code of the City of Glendale, authority is hereby given to:

Name RICHARD A. McLAUGHLINAddress 252 E. Verdugo Ave., Burbank Phone Th 8-8688in or on the premises known as GLENN WEBB & CO.465 W. Los Feliz Rd., Glendale

located at " " Glendale, California,

and permission is granted for INSTALLATION OF (YES (1) 10,000 GALLON  
UNDERGROUND GASOLINE TANK ON THE ABOVE PREMISES IN LOCATION

APPROVED BY THE FIRE PREVENTION BUREAU, AS INDICATED ON

SUBMITTED DESIGN.

This permit is issued and accepted on condition that all provisions of the Fire Prevention Code of the City of Glendale as now adopted, or that may hereafter be adopted, shall be complied with. Any violations of these Provisions may be ground for revocation of this permit.

NORMAN S. STOLLEY,

Fire Chief

Date Issued Nov. 20, 1963 ByR. Holmes  
Engr. R. C. Holmes

THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES DESCRIBED ABOVE.

This permit does not take the place of any license required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

GLENDALE FIRE DEPARTMENT — BUREAU OF FIRE PREVENTION  
210 South Orange St. - Glendale 4, Calif.  
Citrus 1-3134

PERMIT

Nº 2162

## TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Code of the City of Glendale, authority is hereby given to:

Name Richard A. McLaughlinAddress 252 E. Verdugo Ave., Burbank Phone Th. 8-8688in or on the premises known as Glenn Webb Companylocated at 465 W. Los Feliz Blvd., Glendale, California,and permission is granted for FILL 1000 GALLON UNDERGROUND TANK WITH  
ADMX IN AN APPROVED MANNER.

This permit is issued and accepted on condition that all provisions of the Fire Prevention Code of the City of Glendale as now adopted, or that may hereafter be adopted, shall be complied with. Any violations of these Provisions may be ground for revocation of this permit.

NORMAN S. STOLLEY

Fire Chief

Date Issued Dec. 6, 1963 ByR. Holmes  
Engr. R. C. Holmes

THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES DESCRIBED ABOVE.

This permit does not take the place of any license required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

GLENDALE FIRE DEPARTMENT — BUREAU OF FIRE PREVENTION  
210 South Orange St. - Glendale 4, Calif.  
Chrus 1-3134

PERMIT No 2170

## TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Code of the City of Glendale, authority is hereby given to:

Name GLEN WEBB COMPANY

Address 465 W. Los Feliz Phone _____

in or on the premises known as Glen Webb Co.

located at 465 W. Los Feliz Blvd. Glendale, California,

and permission is granted for STORAGE AND USE OF 10,000 GALLONS OF GASOLINE IN UNDERGROUND TANK ON THE ABOVE PREMISES IN A MANNER AND LOCATION APPROVED BY THE FIRE PREVENTION BUREAU, SUBJECT TO THE FOLLOWING CONDITIONS:

1. Maintain one 15 lb. CO-2 or equivalent dry powder type extinguisher in a conspicuous and accessible location.
  2. No smoking or open flame allowed within 25' of operations; install "No Smoking" signs accordingly.
- This permit is issued and accepted on condition that all provisions of the Fire Prevention Code of the City of Glendale as now adopted, or that may hereafter be adopted, shall be complied with. Any violations of these Provisions may be ground for revocation of this permit.

NORMAN S. STOLLEY  
Fire Chief

Date Issued Dec. 13, 1963 By R. Holmes  
Engr. R. C. Holmes

THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES DESCRIBED ABOVE.

This permit does not take the place of any license required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

GLENDALE FIRE DIVISION - ENVIRONMENTAL MANAGEMENT CENTER  
780 Flower Street, Glendale, CA 91201  
818-544-4030 Phone - 818-543-9777 Fax

## PUBLIC RECORDS REQUEST FORM

To expedite your request for records for facilities within the City of Glendale's jurisdiction, please fill out this form completely and identify the type of records you are requesting from the list below.

NOTE: There is a limit of one site address per request form.

## A. Requester

Name & Title: Karen Harvey, Associate Professional  
Address: 12801 N. Stemmons Fwy Ste 807 Dallas, TX 75234  
Employer: GORE Property Sciences  
Employer Address: same as above  
Telephone Number: 972-247-7239 / 972-522-3048 cell

## B. Requested Facility

Facility Name: any? Chef's Select, Mountain Valley Water Co.  
Facility Address: 465 W. Los Feliz Rd, Glendale  
Reason for Request: Phase I Assessment

## Type of Records Requested

- Chemical Inventory (for currently permitted sites)  
 Industrial Waste Permit  
 Business Emergency Plan (for currently permitted sites)  
 Underground Storage Tank Records

POLICY: If you request information that has been designated as a Trade Secret you will be advised of additional procedures for obtaining that information.

Specific locations of hazardous materials on the business site will be withheld from the chemical inventory. (Health & Safety Code, Chapter 6.97).

The requester will not be permitted to remove any original documents being reviewed. A computer generated chemical inventory (if available) will be provided, however, no copies of Business Emergency Plan will be available.

Date: 9/25/07

Requester's Signature: [Signature]

***SEE REVERSE SIDE OF THIS PAGE FOR POLICY, PROCEDURES AND FEES**

GLENDALE FIRE DEPARTMENT No 267

Bureau of Fire Prevention  
210 South Orange Street  
Citrus 1-3134

Date 10-12-50

**PERMIT**

FOR KEEPING, STORAGE, USE, MANUFACTURE, HANDLING, TRANSPORTATION, OR OTHER DISPOSITION OF HIGHLY INFLAMMABLE, COMBUSTIBLE, OR EXPLOSIVE MATERIALS, as stated below:

TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Code of the City of Glendale,

K. R. GARRERT

Name of concern or individual

Located at 633 1/2 SAN FERNANDO COURT, GLENDALE, CALIF.

conducting a CONTRACTOR

(Business)

having made application in due form and as the conditions, surroundings, and arrangements are, in my opinion, such that the intent of the Regulations can be observed, authority is hereby given and this PERMIT IS GRANTED for

INSTALLATION OF ONE 1000 GAL. UNDERGROUND GASOLINE STORAGE TANK WITH ELECTRIC PUMP, WITH 1 1/2" VENT LEADS, TO BE INSTALLED FOR: QUALITY KOL-PAK

150 FERNAND COURT, GLENDALE, CALIF.

This PERMIT is issued and accepted on condition that all provisions of the Fire Prevention Code of the City of Glendale as now adopted, or that may hereafter be adopted, shall be complied with. Any violations of these Provisions may be ground for the revocation of this permit.

A. W. HURT

Chief of the Bureau of Fire Prevention

By [Signature]

This permit does not take the place of any license required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES MENTIONED ABOVE.

10/12/50

GLENDALE FIRE DEPARTMENT No 696

Bureau of Fire Prevention  
210 South Orange Street  
Citrus 1-3134

Date 10-16-50

**PERMIT**

FOR KEEPING, STORAGE, USE, MANUFACTURE, HANDLING, TRANSPORTATION, OR OTHER DISPOSITION OF HIGHLY INFLAMMABLE, COMBUSTIBLE, OR EXPLOSIVE MATERIALS, as stated below:

TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Code of the City of Glendale,

RAY DAVIS

Name of concern or individual

Located at 2315 W. Victory Blvd., Burbank

conducting a CONSTRUCTION BUSINESS AT 150 FERNAND CT.

(Business)

having made application in due form and as the conditions, surroundings, and arrangements are, in my opinion, such that the intent of the Regulations can be

observed, authority is hereby given and this PERMIT IS GRANTED for

REMOVAL OF ONE (1) 1,000 GALLON UNDERGROUND TANK FROM THE

ABOVE PREMISES IN AN APPROVED MANNER. TANK TO BE REMOVED +

FROM THE PREMISES THE SAME DAY.

This PERMIT is issued and accepted on condition that all provisions of the Fire Prevention Code of the City of Glendale as now adopted, or that may hereafter be adopted, shall be complied with. Any violations of these Provisions may be ground for the revocation of this permit.

E. H. LYMAN, FIRE CHIEF  
Chief of the Bureau of Fire Prevention

By [Signature]

This permit does not take the place of any license required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES MENTIONED ABOVE.

GLENDALE FIRE DEPARTMENT — FIRE PREVENTION BUREAU  
210 South Orange St. — Glendale, Calif. 91204  
Telephone — 241-3134

**PERMIT** No. 3525

## TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Code of the City of Glendale, authority is hereby given to:

Name Ed Soderman (Petrolane)

Address 5913 Sepulveda Blvd. Phone 785-5467  
785-5468

in or on the premises known as ~~REPLACEMENT~~ Quality Col Pac

located at 450 Fernando Court Glendale, California,

and permission is granted for installation of 1150 gallon propane

storage tank on the above premises, in location approved by the

Fire Prevention Bureau, as indicated on submitted sketch. THIS

OFFICE TO BE NOTIFIED 24 HOURS PRIOR TO THIS WORK BEING DONE.

This Permit is issued and accepted on condition that all provisions of the Fire Prevention Code, City of Glendale, as now adopted, or as may hereafter be adopted, shall be complied with. Any violation of these Provisions may be grounds for revocation of this Permit.

ALLAN R. STONE

*Fire Chief*

Date Issued April 16, 1973 By Charles M. Hyndman, Battalion Chief

THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES DESCRIBED ABOVE.

This permit does not take the place of any license required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

GLENDALE FIRE DEPARTMENT — FIRE PREVENTION BUREAU  
210 South Orange St. — Glendale, Calif. 91204  
Telephone — 241-3134

**PERMIT** No. 3808

## TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Code of the City of Glendale, authority is hereby given to:

Name John D. Murray, Quality Col-Pak, Inc.

Address 1065 East Walnut Street, Carson Phone 213-979-7979

in or on the premises known as 450 Fernando Court

located at 450 Fernando Court Glendale, California,

and permission is granted for maintenance of one, 1,000 gallon under-ground flammable liquid tank, located at the above address, subject to the following conditions and restrictions:

1. Installation to be maintained in a safe condition at all times.
2. Cover plates must be used, and fill stems locked, at all times.
3. No alterations or changes in this installation unless Permit is granted by the Fire Prevention Bureau.
4. THIS PERMIT WILL EXPIRE January 31, 1976, and tank must be permanently abandoned, or reactivated, by that date.

This Permit is issued and accepted on condition that all provisions of the Fire Prevention Code, City of Glendale, as now adopted, or as may hereafter be adopted, shall be complied with. Any violation of these Provisions may be grounds for revocation of this Permit.

Allan R. Stone

*Fire Chief*

Date Issued January 31, 1975 By E. E. Callagher, Captain

THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES DESCRIBED ABOVE.

This permit does not take the place of any license required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

GLENDALE FIRE DIVISION-ENVIRONMENTAL MANAGEMENT CENTER  
780 Flower Street, Glendale, CA 91201  
818-548-4030 Phone - 818-548-9777 Fax

**PUBLIC RECORDS REQUEST FORM**

To expedite your request for records for facilities within the City of Glendale's jurisdiction, please fill out this form completely and identify the type of records you are requesting from the list below.

NOTE: There is a limit of one site address per request form.

A. Requestor

Name & Title: Karen Harvey, Associate Professional

Address: 12801 Al Stemmons Fwy Ste 907 Dallas, TX 75234

Employer: GORE Property Sciences

Employer Address: same as above

Telephone Number: 972-247-7209 / 972-522-3048 cell

B. Requested Facility

Facility Name: any

Facility Address: 450 Fernando Court

Reason for Request: Phase I Assessment

C. Type of Records Requested

Chemical Inventory (for currently permitted sites)

Industrial Waste Permit

Business Emergency Plan (for currently permitted sites)

Underground Storage Tank Records

POLICY: If you request information that has been designated as a Trade Secret you will be advised of additional procedures for obtaining that information.

Specific locations of hazardous materials on the business site will be withheld from the chemical inventory. (Health & Safety Code, Chapter 6.95).

The requester will not be permitted to remove any original documents being reviewed. A computer generated chemical inventory (if available) will be provided, however, no copies of Business Emergency Plan will be available.

Date: 9/25/07  
Requestor's Signature: [Signature]

**SEE REVERSE SIDE OF THIS PAGE FOR POLICY, PROCEDURES AND FEES**

no  
CIP  
CA  
PA  
MO

GLENDALE FIRE DIVISION-ENVIRONMENTAL MANAGEMENT CENTER  
780 Flower Street, Glendale, CA 91201  
818-548-4030 Phone - 818-548-9777 Fax

**PUBLIC RECORDS REQUEST FORM**

To expedite your request for records for facilities within the City of Glendale's jurisdiction, please fill out this form completely and identify the type of records you are requesting from the list below.

NOTE: There is a limit of one site address per request form.

A. Requestor

Name & Title: Karen Harvey, Associate Professional

Address: 12801 Al Stemmons Fwy Ste 907 Dallas, TX 75234

Employer: GORE Property Sciences

Employer Address: same as above

Telephone Number: 972-247-7209 / 972-522-3048 cell

B. Requested Facility

Facility Name: former service station

Facility Address: 447 W Was Feliz Rd, Glendale

Reason for Request: Phase I Assessment

C. Type of Records Requested

Chemical Inventory (for currently permitted sites)

Industrial Waste Permit

Business Emergency Plan (for currently permitted sites)

Underground Storage Tank Records

POLICY: If you request information that has been designated as a Trade Secret you will be advised of additional procedures for obtaining that information.

Specific locations of hazardous materials on the business site will be withheld from the chemical inventory. (Health & Safety Code, Chapter 6.95).

The requester will not be permitted to remove any original documents being reviewed. A computer generated chemical inventory (if available) will be provided, however, no copies of Business Emergency Plan will be available.

Date: 9/25/07  
Requestor's Signature: [Signature]

**SEE REVERSE SIDE OF THIS PAGE FOR POLICY, PROCEDURES AND FEES**

no  
CIP  
CA  
PA  
MO

no  
Records

GLENDALE FIRE DIVISION - ENVIRONMENTAL MANAGEMENT CENTER  
780 Flower Street, Glendale, CA 91201  
818-548-4030 Phone • 818-549-9777 Fax

**PUBLIC RECORDS REQUEST FORM**

To expedite your request for records for facilities within the City of Glendale's jurisdiction, please fill out this form completely and identify the type of records you are requesting from the list below.

NOTE: There is a limit of one site address per request form.

**A. Requester**

Name & Title: Karen Harvey, Associate Professional  
 Address: 12801 N. Stemmons Freeway Ste 807 Dallas, TX 75234  
 Employer: QORE Property Sciences  
 Employer Address: same as above  
 Telephone Number: 972-247-7207 / 972-522-8048 cell

**B. Requested Facility**

Facility Name: former ~~fire~~ service station  
 Facility Address: 449 W Los Feliz Rd, Glendale  
 Reason for Request: Phase I Assessment

**C. Type of Records Requested**

Chemical Inventory (for currently permitted sites)  
 Industrial Waste Permit  
 Business Emergency Plan (for currently permitted sites)  
 Underground Storage Tank Records

**POLICY:** If you request information that has been designated as a Trade Secret you will be advised of additional procedures for obtaining that information.

Specific locations of hazardous materials on the business site will be withheld from the chemical inventory. (Health & Safety Code, Chapter 6.95).

The requester will not be permitted to remove any original documents being reviewed. A computer generated chemical inventory (if available) will be provided, however, no copies of Business Emergency Plan will be available.

Date: 9/25/07  
Requester's Signature: [Signature]

****SEE REVERSE SIDE OF THIS PAGE FOR POLICY, PROCEDURES AND FEES****

*no CIP*  
*20*  
*20*  
*20*

*No records*

GLENDALE FIRE DIVISION - ENVIRONMENTAL MANAGEMENT CENTER  
780 Flower Street, Glendale, CA 91201  
818-548-4030 Phone • 818-549-9777 Fax

**PUBLIC RECORDS REQUEST FORM**

To expedite your request for records for facilities within the City of Glendale's jurisdiction, please fill out this form completely and identify the type of records you are requesting from the list below.

NOTE: There is a limit of one site address per request form.

**A. Requester**

Name & Title: Karen Harvey, Associate Professional  
 Address: 12801 N. Stemmons Freeway Ste 807 Dallas, TX 75234  
 Employer: QORE Property Sciences  
 Employer Address: same as above  
 Telephone Number: 972-247-7207 / 972-522-8048 cell

**B. Requested Facility**

Facility Name: Bartels (and/or former service station)  
 Facility Address: 485 W Los Feliz Rd, Glendale  
 Reason for Request: Phase I Assessment

**C. Type of Records Requested**

Chemical Inventory (for currently permitted sites)  
 Industrial Waste Permit  
 Business Emergency Plan (for currently permitted sites)  
 Underground Storage Tank Records

**POLICY:** If you request information that has been designated as a Trade Secret you will be advised of additional procedures for obtaining that information.

Specific locations of hazardous materials on the business site will be withheld from the chemical inventory. (Health & Safety Code, Chapter 6.95).

The requester will not be permitted to remove any original documents being reviewed. A computer generated chemical inventory (if available) will be provided, however, no copies of Business Emergency Plan will be available.

Date: 9/25/07  
Requester's Signature: [Signature]

****SEE REVERSE SIDE OF THIS PAGE FOR POLICY, PROCEDURES AND FEES****

*no CIP*  
*20*  
*20*  
*20*

*No records*



GLENDALE FIRE DIVISION - ENVIRONMENTAL MANAGEMENT CENTER  
788 Flower Street, Glendale, CA 91201  
818-548-4030 Phone - 818-548-9777 Fax

### PUBLIC RECORDS REQUEST FORM

To expedite your request for records for facilities within the City of Glendale's jurisdiction, please fill out this form completely and identify the type of records you are requesting from the list below.

NOTE: There is a limit of one site address per request form.

<b>A. Requester</b>	
Name & Title:	Karen Harvey Associate Professional
Address:	12801 US Stearns Hwy Ste 807 Dallas TX 75234
Employer:	DDRE Property Sciences
Employer Address:	same as above
Telephone Number:	972-247-7209 / 972-522-3048 cell

<b>B. Requested Facility</b>	
Facility Name:	Glendale Rotary Offset Printing (3 locations)
Facility Address:	434 Fernando Court, Glendale
Reason for Request:	Phase I Assessment

<b>C. Type of Records Requested</b>	
<input checked="" type="checkbox"/>	Chemical Inventory (for currently permitted sites)
<input type="checkbox"/>	Industrial Waste Permit
<input type="checkbox"/>	Business Emergency Plan (for currently permitted sites)
<input checked="" type="checkbox"/>	Underground Storage Tank Records

**POLICY:** If you request information that has been designated as a Trade Secret you will be advised of additional procedures for obtaining that information.

Specific locations of hazardous materials on the business site will be withheld from the chemical inventory. (Health & Safety Code, Chapter 6.57).

The requester will not be permitted to remove any original document being reviewed. A computer generated chemical inventory (if available) will be provided, however, no copies of Business Emergency Plan will be available.

Date: 9/25/07

Requester's Signature: *Karen Harvey*

****SEE REVERSE SIDE OF THIS PAGE FOR POLICY, PROCEDURES AND FEES****

STATE OF CALIFORNIA

PETE WILSON, Governor

### CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD— LOS ANGELES REGION

101 CENTRE PLAZA DRIVE  
MONTEREY PARK, CA 91754-2134  
(213) 266-7500



August 9, 1991

MOUNTAIN VALLEY WATER CO.  
245 HF LOS FELIZ RD.  
GLENDALE, CA 91201

FILE NUMBER: 112,0263

#### WELL INVESTIGATION PROGRAM - CHEMICAL STORAGE AND USE QUESTIONNAIRE

The California Regional Water Quality Control Board, Los Angeles, is the public agency with primary responsibility for the protection of ground and surface water quality for all beneficial uses within Los Angeles and Ventura counties.

As part of the statewide monitoring program conducted under the direction of the California Department of Health Services, public drinking water wells in your area have been sampled. The results of the sampling indicates the presence of organic contaminants in many of these wells.

Your facility is geographically within an area of concern and may be engaged in practices which might require the storage and use of chemicals. Therefore, pursuant to Section 13267(b) of the California Water Code, you are requested to complete the attached questionnaire to provide information on past or present chemical storage or use at your facility. Please return the completed questionnaire to the Regional Board by September 2, 1991. The return of this questionnaire, properly signed, is required even if no chemicals are stored or used at your facility. If you are new owners, complete the questionnaire to the best of your ability and provide available data concerning the past owners including contact and phone number.

If your facility is currently conducting or has conducted an investigation associated with soil or ground water pollution, please include a copy of the findings or relevant information along with the questionnaire.

If you have any questions, please contact Mr. Frank Goldman at (213) 266-7584.

*Frank H. Yacub*  
FRANK H. YACUB  
Supervising Water Resource  
Control Engineer

*200 records*

*NO CIP*

*CO  
DO  
MO*

ENTER FILE NO. FROM LETTER ~~113.5280~~  
113.5280

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LOS ANGELES REGION  
CHEMICAL STORAGE AND USE QUESTIONNAIRE

I. COMPANY NAME: MOUNTAIN VALLEY WATER CO. OF L.A.  
II. FACILITY ADDRESS: 465 W LOS FELIZ RD. GLENDALE CA.  
91204

III. FACILITY INFORMATION

A. STANDARD INDUSTRIAL CLASSIFICATION CODE(SIC): _____

B. GENERATOR NUMBER(EPA/STATE): _____

C. BRIEF DESCRIPTION OF OPERATIONS: BOTTLED WATER  
DISTRIBUTOR

D. SEWER SYSTEM: INDUSTRIAL _____ MUNICIPAL   
SEPTIC TANK _____ CESS POOL _____

WAS A DIFFERENT SEWER SYSTEM USED IN THE PAST? YES  NO

IF YES SPECIFY TYPE _____ DATE CONVERTED _____

E. FACILITY OWNER John Lewis

F. HISTORY: DATE OPERATIONS BEGAN: Sept. 1987

PRIOR OWNERS: _____

IV. CHEMICAL STORAGE AND USE AT THE SITE. Complete sections A-G(page 2)  
for all chemicals in current use or that have been used in the past,  
use additional sheets if necessary.

A. CHEMICAL NAME: _____ B. COMMON/TRADE NAME: _____  
C. METHOD OF STORAGE: UNDERGROUND TANK _____ ABOVE GROUND TANK _____  
BARRELS _____ OTHER(specify) _____  
D. QUANTITY STORED: _____  
E. WASTE DISPOSAL METHOD: SEWERED _____ HAULED _____ ONSITE DISPOSAL _____  
F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES _____ NO _____  
If yes, method of treatment: _____  
G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES _____ NO _____

~~A. CHEMICAL NAME: _____ B. COMMON/TRADE NAME: _____  
C. METHOD OF STORAGE: UNDERGROUND TANK _____ ABOVE GROUND TANK _____  
BARRELS _____ OTHER(specify) _____  
D. QUANTITY STORED: _____  
E. WASTE DISPOSAL METHOD: SEWERED _____ HAULED _____ ONSITE DISPOSAL _____  
F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES _____ NO _____  
If yes, method of treatment: _____  
G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES _____ NO _____~~

A. CHEMICAL NAME: _____ B. COMMON/TRADE NAME: _____  
C. METHOD OF STORAGE: UNDERGROUND TANK _____ ABOVE GROUND TANK _____  
BARRELS _____ OTHER(specify) _____  
D. QUANTITY STORED: _____  
E. WASTE DISPOSAL METHOD: SEWERED _____ HAULED _____ ONSITE DISPOSAL _____  
F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES _____ NO _____  
If yes, method of treatment: _____  
G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES _____ NO _____

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LOS ANGELES REGION101 CENTRE PLAZA DRIVE  
MONTEREY PARK, CA 91754-2156  
(213) 244-7500  
FAX: (213) 266-7400

## V. THIS QUESTIONNAIRE SHALL BE SIGNED BELOW AS FOLLOWS:

- A. In the case of corporations, by a principal executive officer at the level of vice-president or his duly authorized representative if such representative is responsible for the overall operation of the facility, or
- B. In the case of a partnership, by a general partner, or
- C. In the case of a sole proprietorship, by the proprietor, or
- D. In the case of a municipal, State, or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

This questionnaire has been completed under penalty of perjury and, to the best of my knowledge, is true and correct.

Signature: Mark T. Scott Date: 8/12/91

Printed Name: MARK T. SCOTT

Title: GENERAL MANAGER Phone: (818) 242-9982

Contact Name: SAME AS ABOVE

Title: _____ Phone: _____

February 14, 1997

Mr. Mark T. Scott  
Mountain Valley Water Co.  
465 #F Los Feliz Rd.  
Glendale, CA 91204


SAN FERNANDO VALLEY CLEANUP PROGRAM NO FURTHER REQUIREMENTS FOR MOUNTAIN VALLEY WATER CO., LOCATED AT 465 #F LOS FELIZ RD., GLENDALE (FILE NO. 113.5280)

Based on the information provided in our Chemical Use Questionnaire Survey form filed by you for the subject facility and with the provision that the information provided was accurate and representative of site conditions, no further action related to this Board's Well Investigation Program is required.

It should be noted that this letter in no way releases you from any chemicals and/or waste handling requirements of this or any other agency.

If you have any questions regarding this matter, please contact me at (213)266-7536.

Sincerely,

  
Jonathan Bishop  
Senior Water Resource  
Control Engineer

cc: Mr. David Seter, USEPA Region IX

## CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—

## LOS ANGELES REGION

101 CENTRE PLAZA DRIVE  
 MONTEREY PARK, CA 91754-2184  
 (213) 266-7500



August 9, 1991

CHIEF'S SELECT  
 365 W. LOS FELIZ RD.  
 GLENDALE, CA 91204

FILE NUMBER: 112-0282

## WELL INVESTIGATION PROGRAM - CHEMICAL STORAGE AND USE QUESTIONNAIRE

The California Regional Water Quality Control Board, Los Angeles, is the public agency with primary responsibility for the protection of ground and surface water quality for all beneficial uses within Los Angeles and Ventura counties.

As part of the statewide monitoring program conducted under the direction of the California Department of Health Services, public drinking water wells in your area have been sampled. The results of the sampling indicates the presence of organic contaminants in many of these wells.

Your facility is geographically within an area of concern and may be engaged in practices which might require the storage and use of chemicals. Therefore, pursuant to Section 13267(b) of the California Water Code, you are requested to complete the attached questionnaire to provide information on past or present chemical storage or use at your facility. Please return the completed questionnaire to the Regional Board by September 2, 1991. The return of this questionnaire, properly signed, is required even if no chemicals are stored or used at your facility. If you are new owners, complete the questionnaire to the best of your ability and provide available data concerning the past owners including contact and phone number.

If your facility is currently conducting or has conducted an investigation associated with soil or ground water pollution, please include a copy of the findings or relevant information along with the questionnaire.

If you have any questions, please contact Mr. Frank Goldman at (213) 266-7584.

*Frank H. Yacoub*  
 HANK H. YACCOUB  
 Supervising Water Resource  
 Control engineer

ENTER FILE NO. FROM LETTER ~~112-0282~~

113-5282

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
 LOS ANGELES REGION  
 CHEMICAL STORAGE AND USE QUESTIONNAIRE

- I. COMPANY NAME: Chief's Select
- II. FACILITY ADDRESS: 465 W. Los Feliz Rd. #4 Glendale, CA 91204
- III. FACILITY INFORMATION
- A. STANDARD INDUSTRIAL CLASSIFICATION CODE(SIC): N/A
- B. GENERATOR NUMBER(EPA/STATE): N/A
- C. BRIEF DESCRIPTION OF OPERATIONS: POTATO PROCESSOR
- D. SEWER SYSTEM: INDUSTRIAL  MUNICIPAL   
 SEPTIC TANK  CESS POOL
- WAS A DIFFERENT SEWER SYSTEM USED IN THE PAST?  YES  NO
- IF YES SPECIFY TYPE _____ DATE CONVERTED _____
- E. FACILITY OWNER: Glendale Rotary Offset Printing
- F. HISTORY: DATE OPERATIONS BEGAN: 1984  
 PRIOR OWNERS: WILGET FOODS
- IV. CHEMICAL STORAGE AND USE AT THE SITE. Complete sections A-G (page 2) for all chemicals in current use or that have been used in the past, use additional sheets if necessary.

A. CHEMICAL NAME: _____ B. COMMON/TRADE NAME: _____  
C. METHOD OF STORAGE: UNDERGROUND TANK ___ ABOVE GROUND TANK ___  
BARRELS ___ OTHER(specify) _____  
D. QUANTITY STORED: _____  
E. WASTE DISPOSAL METHOD: SEWERED ___ HAULED ___ ONSITE DISPOSAL ___  
F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES ___ NO ___  
If yes, method of treatment: _____  
G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES ___ NO ___

A. CHEMICAL NAME: _____ B. COMMON/TRADE NAME: _____  
C. METHOD OF STORAGE: UNDERGROUND TANK ___ ABOVE GROUND TANK ___  
BARRELS ___ OTHER(specify) _____  
D. QUANTITY STORED: _____  
E. WASTE DISPOSAL METHOD: SEWERED ___ HAULED ___ ONSITE DISPOSAL ___  
F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES ___ NO ___  
If yes, method of treatment: _____  
G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES ___ NO ___

A. CHEMICAL NAME: _____ B. COMMON/TRADE NAME: _____  
C. METHOD OF STORAGE: UNDERGROUND TANK ___ ABOVE GROUND TANK ___  
BARRELS ___ OTHER(specify) _____  
D. QUANTITY STORED: _____  
E. WASTE DISPOSAL METHOD: SEWERED ___ HAULED ___ ONSITE DISPOSAL ___  
F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES ___ NO ___  
If yes, method of treatment: _____  
G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES ___ NO ___

V. THIS QUESTIONNAIRE SHALL BE SIGNED BELOW AS FOLLOWS:

- A. In the case of corporations, by a principal executive officer at the level of vice-president or his duly authorized representative if such representative is responsible for the overall operation of the facility, or
- B. In the case of a partnership, by a general partner, or
- C. In the case of a sole proprietorship, by the proprietor, or
- D. In the case of a municipal, State, or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

This questionnaire has been completed under penalty of perjury and, to the best of my knowledge, is true and correct.

Signature: John E. Lewis Date: 8-28-91  
Printed Name: JOHN E. LEWIS  
Title: PRESIDENT Phone: 244-2288

Contact Name: _____  
Title: _____ Phone: _____

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LOS ANGELES REGION101 CENTRE PLAZA DRIVE  
MONTEREY PARK, CA 91754-2156  
(213) 266-7500  
FAX: (213) 266-7600

February 14, 1997


Mr. John E. Lewis  
Chef's Select  
465 Los Feliz Rd. #H  
Glendale, CA 91204**SAN FERNANDO VALLEY CLEANUP PROGRAM NO FURTHER REQUIREMENTS FOR CHEF'S SELECT, LOCATED AT 465 LOS FELIZ RD. #H, GLENDALE (FILE NO. 113.5282)**

Based on the information provided in our Chemical Use Questionnaire Survey form filed by you for the subject facility and with the provision that the information provided was accurate and representative of site conditions, no further action related to this Board's Well Investigation Program is required.

It should be noted that this letter in no way releases you from any chemicals and/or waste handling requirements of this or any other agency.

If you have any questions regarding this matter, please contact me at (213)266-7538.

Sincerely,

  
Jonathan Bishop  
Senior Water Resource  
Control Engineer

cc: Mr. David Seter, USEPA Region IX

 **EPA SAN FERNANDO VALLEY  
SUPERFUND SITES UPDATE**U.S. ENVIRONMENTAL PROTECTION AGENCY • REGION 9 • SAN FRANCISCO, CA • JUNE 2003  
WEB VERSION - REVISED 7/03

The United States Environmental Protection Agency (EPA) continues its efforts to clean up the San Fernando Valley Superfund sites. The purpose of this fact sheet is to announce the results of the most recent groundwater sampling events and to provide an update on cleanup at the sites. Terms that appear in **bold** are in a glossary on page 8.

The San Fernando Valley Superfund sites are in the eastern portion of the San Fernando Valley between the Santa Monica and San Gabriel mountains. The San Fernando groundwater basin is an important source of drinking water for the Los Angeles metropolitan area, the cities of Glendale, Burbank, and San Fernando, and the unincorporated area of La Crescenta (See figure 1). In the early 1980s, trichloroethylene (TCE) and perchloroethylene (PCE) were detected in numerous drinking water wells above the maximum contaminant level (MCL) of five parts per billion (ppb). The MCL is an enforceable standard of the maximum permissible level of a contaminant in water delivered to a public

drinking water system. As a result of the widespread contamination, state and local agencies acted to provide alternative drinking water supplies, primarily by purchasing water from the Metropolitan Water District (MWD). In 1986, the EPA included the sites in the San Fernando Valley on the National Priorities List and began coordinating efforts to investigate and clean up the regional groundwater contamination.

The San Fernando Valley Superfund sites consist of four study areas, two of which are divided into one or more operable units (OUs). An OU is a focused study area that allows EPA to take each action as part of an overall, basinwide site cleanup. The four areas are:

North Hollywood (Area 1), which includes the North Hollywood and Burbank OUs; Crystal Springs (Area 2), which includes the Glendale North and South OUs; and the Verdugo (Area 3) and Pollock (Area 4) study areas. Each San Fernando Valley OU has a selected interim Record of Decision remedy that will be incorporated into a final cleanup. Currently, EPA is carrying out the interim remedies at the OUs while a basinwide groundwater investigation is being conducted.



Figure 1: San Fernando Valley Superfund Sites

Cont'd. on pg. 2

## GROUNDWATER MONITORING PROGRAM

Since 1992, EPA has monitored groundwater contamination through its Basinwide Monitoring Program (quarterly and annual sampling events). EPA uses the groundwater monitoring results to help define the site contaminant boundaries (extent and depth), develop contamination plume maps, assess the threat from emerging contaminants, and refine a **groundwater model** to assist in developing a final cleanup remedy for the site.

At each quarterly sampling event, wells are sampled for **volatile organic compounds (VOCs)**, primarily TCE and PCE, and nitrates. In addition, EPA conducts an annual sampling event with an expanded list of chemicals. The annual event includes sampling for VOCs, total dissolved metals including total dissolved chromium, nitrate, **general chemistry**, and total organic carbon. Since 1999, EPA has also included **hexavalent chromium** and **methyl tertiary butyl ether (MTBE)** in the quarterly sampling events and **semi-volatile organic compounds (SVOCs)** and **perchlorate** in the annual sampling event. The sampling results will allow EPA and other state and local agencies to determine if these contaminants are of concern in the San Fernando Valley basin and whether or not cleanup action will be necessary.

## GROUNDWATER SAMPLING RESULTS

The EPA sampled 63 monitoring wells during the 2001 event. Monitoring wells are used to allow sampling of groundwater to determine such things as the direction of groundwater flows and the types and amounts of contaminants present.

### TCE

TCE was detected in groundwater from 55 of the 63 wells sampled in 2001. Groundwater from 23 of the wells exceeded the State of California MCL of 5 ppb. The highest concentration of TCE in groundwater from monitoring wells was 1,200 ppb (See page 5). EPA's treatment system that is in place addresses this contaminant by removing it from the groundwater.

### PCE

PCE was detected in groundwater from 59 of the 63 wells sampled in 2001. Groundwater from 17 of the wells exceeded the State of California MCL of 5 ppb.

The highest concentration of PCE in groundwater from monitoring wells was 340 ppb (See page 4). EPA's treatment system that is in place addresses this contaminant by removing it from the groundwater.

### SVOCs and MTBE

SVOCs were not detected in groundwater from any of the 63 wells. MTBE was detected in groundwater at seven of 63 wells. MTBE groundwater concentrations ranged between 0.6 ppb and 13 ppb. Groundwater from one monitoring well equaled the State of California MCL of 13 ppb. EPA will continue to monitor and evaluate the extent of these contaminants.

### PERCHLORATE

Perchlorate was detected in groundwater from 12 of the 63 wells sampled in 2001. Groundwater from seven of the monitoring wells equaled or exceeded the State of California action level of 4 ppb. The highest concentration of perchlorate in groundwater from monitoring wells was 6 ppb. EPA will continue to monitor and evaluate the extent of this contaminant.

### HEXAVALENT CHROMIUM

Hexavalent chromium concentrations in groundwater were detected in 46 of 63 wells sampled during 2001. Concentrations in groundwater from four wells exceeded the State of California MCL of 50 ppb. The highest concentration of hexavalent chromium in groundwater from the monitoring wells was 523 ppb. EPA will continue to monitor and evaluate the extent of this contaminant.

## UPDATE ON EPA INVESTIGATIONS OF CHROMIUM IN THE SAN FERNANDO VALLEY

The EPA led the way in evaluating chromium contamination in San Fernando Valley groundwater, conducting 15 total chromium monitoring events between 1989 and 1999. In 1999, EPA initiated quarterly sampling of our monitoring wells for hexavalent chromium. The EPA also evaluates chromium data from other facility monitoring wells sampled by individual companies in the San Fernando Valley.

In January 1999, EPA initiated an investigation to identify the specific sources of chromium contamina-

tion by providing funds to the Los Angeles Regional Water Quality Control Board (LARWQCB) to investigate 4,040 potential chromium users in the San Fernando Valley. With EPA funding and oversight, the LARWQCB identified 255 of the 4,040 suspected chromium users that required on-site inspection. The LARWQCB completed the 255 inspections in December 2001. Of the 255 inspected sites, LARWQCB recommended 150 sites for closure (No Further Action) and 105 sites that require further assessment or investigation. In August 2002, the LARWQCB completed these efforts by issuing the *Chromium Investigation: San Fernando Valley Phase I: Inspections Final Report* (Chromium Investigation). As a result of the Chromium Investigation, the LARWQCB has issued four Cleanup and Abatement Orders, and several additional Cleanup and Abatement Orders will be issued in the near future. Currently, the LARWQCB's enforcement actions are focusing on the facilities that show some of the highest concentrations of chromium in groundwater or pose imminent threats to water supply wells in the San Fernando Valley. In addition, we are supporting the LARWQCB's enforcement efforts and meeting regularly with state and local agencies to monitor enforcement activities and offer enforcement assistance if needed.

## BASINWIDE GROUNDWATER MODEL UPDATE

In 2002, EPA began the process of updating the basinwide groundwater model by incorporating new information on groundwater management practices in the Valley and the most current scientific knowledge of the factors affecting groundwater flow and contamination movement in the basin. A groundwater model, given the proper assumptions and the most accurate data, helps EPA predict how well a cleanup action will work. The updated groundwater model will be used in the basinwide **feasibility study (FS)** to estimate the effectiveness of the interim remedies in containing and removing the contaminated mass from the groundwater aquifer system and decide what further actions may be needed. Preliminary components of the FS include: 1) an evaluation of the combined effectiveness of the individual interim remedies in the North Hollywood, Burbank, and Glendale North and South OUs, 2) an analysis of additional remedial alternatives, and 3) a review of potential vadose zone (soil above the groundwater table) movement, remedial options, and

methods for establishing vadose zone cleanup objectives. Based on these studies EPA will issue a basinwide proposed cleanup plan for public comment.

## UPDATE ON THE OPERABLE UNITS

### AREA 1 - NORTH HOLLYWOOD

#### • North Hollywood OU

Since 1989, the Los Angeles Department of Water and Power (LADWP), with EPA funding and oversight, has been operating a 2,000 gallons per minute (gpm) groundwater extraction and treatment facility to remove VOCs and prevent the movement of contamination within the North Hollywood OU. The water is treated for VOCs using air stripping and vapor-phase granular activated carbon and is distributed to the public through LADWP's North Hollywood Pumping Station. EPA has settled with nine potentially responsible parties (PRPs) for most of the costs incurred in the investigation, construction, and operation of the North Hollywood OU. The funds recovered currently support and are expected to continue to support operation of the treatment facilities through 2005.

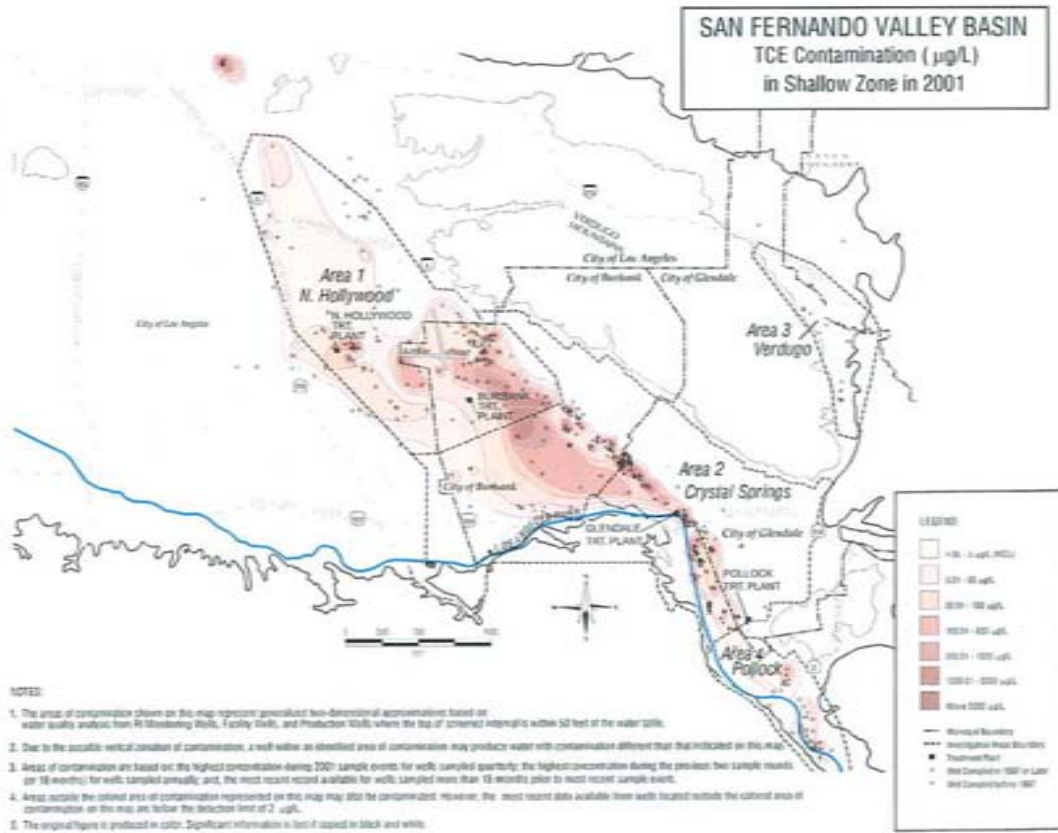
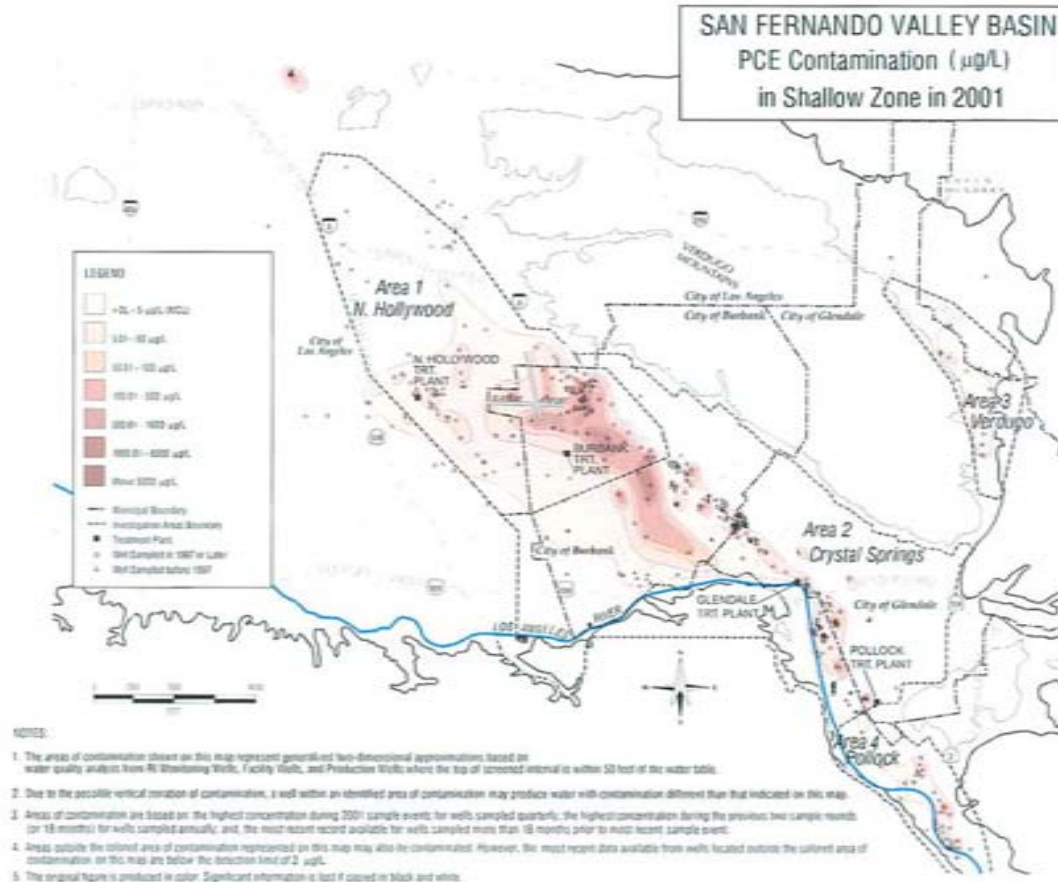
In 2001 and 2002, EPA approved LADWP workplans for operational improvements and a study of enhancement options to improve the effectiveness of the North Hollywood OU. The workplan is currently being implemented and has resulted in fewer and shorter service interruptions at the OU. The enhancement study is in draft form and is being revised to incorporate groundwater modeling and other related data.

EPA will conduct a five-year review of the North Hollywood OU in 2003. These reviews are required by law every five years at ongoing Superfund remedial actions. The review will determine whether the existing remedial actions at the OU meet the objectives identified in the North Hollywood Record of Decision for cleanup. If you have any questions about this OU or would like to be interviewed as a part of the five-year review, please call Bob Fitzgerald, the North Hollywood OU project manager, at 415 972-3173.

#### • Burbank OU

The Burbank OU treatment plant delivers 9,000 gpm of treated groundwater to the City of Burbank which is blended with water provided by the Metropolitan Water District (MWD) and delivered to the public. The treated, blended water meets all drinking

(Cont'd. on page 6)





water requirements. Lockheed Martin constructed the treatment plant under Consent Decrees with EPA and provides funding for the operation and maintenance of the plant. The City of Burbank assumed responsibility for the daily operation of the plant in March 2001. Since assuming operation of the treatment plant, the City has made and is currently making modifications to the plant to improve long-term efficiency of the system. During these plant improvements, the amount of treated water produced is temporarily reduced.

During the Fall of 2000, Lockheed Martin submitted a force majeure ("act of God") claim to EPA in accordance with the Consent Decree. At that time, Lockheed Martin was required to operate the plant and produce 9,000 gpm, and had failed to do so for several months prior to submitting the force majeure claim. Lockheed Martin believed that it could not produce 9,000 gpm at the treatment plant because the groundwater levels in the area had dropped. EPA, the City of Burbank, Lockheed Martin, and the Department of Health Services (DHS) conducted a nine-month study to determine if the groundwater levels had dropped or if the failure to produce 9,000 gpm was due to other issues at the plant. As a result of the study, EPA found that equipment limitations and maintenance issues at the plant, not lower groundwater levels, were the reason for the reduced pumping rate. EPA assessed a penalty against Lockheed Martin for failure to produce 9,000 gpm. EPA and Lockheed Martin resolved the penalty action for a penalty of \$260,000, which Lockheed Martin has paid. Water quality was not impacted by the reduced pumping. EPA, Lockheed Martin and the City of Burbank will continue to work together to improve plant efficiency.

## **AREA 2 - CRYSTAL SPRINGS (GLENDALE) (Revised 7/03)**

In 1989, EPA found elevated concentrations of VOCs in the groundwater in the Glendale area of the San Fernando Valley. Two contaminated groundwater plumes were discovered and are referred to as the Glendale North and Glendale South Operable Units (GOU). On June 18, 1993, after receiving and considering public comments, EPA signed Records of Decision (RODs) for both the Glendale North and South OUs. The plan for the combined remedy was to extract groundwater at a rate of 5,000 gpm and remove VOCs using air stripping, liquid phase granulated

activated carbon, and vapor-phase granulated activated carbon. The treated water was to meet all drinking water standards except for nitrates. To meet the nitrate standard, the plan called for the water to be blended with MWD water to meet the nitrate standard and transported to the City of Glendale for distribution through its public water supply system under a DHS permit.

In 1994, EPA signed an Administrative Order on Consent (AOC) with 25 PRPs to conduct the remedial design phase of the project. The PRPs completed the remedial design in November 1996. Because EPA was unable to reach agreement for a Consent Decree with the PRPs to perform the remedial action phase, EPA issued Unilateral Administrative Orders to the PRPs who had signed the AOC, as well as additional PRPs, to begin preconstruction activities. In August 2000, EPA entered into a Consent Decree with these PRPs to voluntarily complete the remedial action and with the City of Glendale, which is not a PRP, to perform operation and maintenance at the site. Construction of the groundwater extraction and treatment plant was completed in October 1999.

On August 1, 2000, DHS issued the drinking water permit for the treatment plant and operation began. However, DHS did not include one of the GOU extraction wells, GS-1, in the original drinking water permit because of concerns that too much reclaimed water would be captured during pumping. Reclaimed water is typically tertiary-treated (three times) water from a sewage treatment plant that is used to water freeways, highways, parks and golf courses and not typically used for drinking water purposes. DHS required the City of Glendale to conduct a focused investigation to address the concerns in GS-1. After the City of Glendale completed the investigation, DHS issued a permit amendment in May 2002 allowing full operation of GS-1. The DHS determined the information supplied by the City of Glendale provided assurance that GS-1 was not, in fact, capturing too much reclaimed water.

In September 2000, the City of Glendale became concerned about the hexavalent chromium concentration in the GOU water, even though the GOU water met all drinking water standards, including both federal and state MCLs for chromium. The City's concern was based on a Public Health Goal (PHG) of

2.5 ppb for total chromium, established by the State of California in 1989. The PHGs for chemicals are developed by the State Office of Environmental Health Hazard Assessment (OEHHA). Based on its concern, the City of Glendale refused to accept the GOU outflow into its potable water system, and instead began discharging the treated GOU water to the Los Angeles River. The discharge continued until July 2001, when the City of Glendale began accepting a small quantity of treated GOU water for blending into its potable water supply system. During this period, EPA, the Upper Los Angeles River Area Watermaster, and the City of Glendale worked together to reach an agreement that would allow maximum effectiveness of the GOU while addressing the City of Glendale's concern with water quality and the Watermaster's concern with the wasting of water by discharge to the Los Angeles River.

In September 2001, California EPA withdrew the PHG for chromium 6 as a result of criticism from a panel of University of California experts. The experts criticized the use of a flawed scientific study as the primary basis for the PHG. In response to the rescission of the PHG, the Glendale City Council allowed increased acceptance of GOU water into the City of Glendale water system. On January 7, 2002, the City of Glendale began accepting the full outflow from the GOU on a 24-hour-a-day schedule. Very recently, Senator Deborah Ortiz raised concerns that the panel had been subjected to "undue influence," alleging that Pacific Gas and Electric influenced the panel and its review of the scientific literature and its health effects. The company has denied the allegations; however, the California Environmental Protection Agency is shelving the panel's report. Concurrently, OEHHA is evaluating available information on chromium toxicity and plans to issue a new chromium PHG.

In June 2002, after startup of GS-1, the GOU began operation at the full design capacity of 5,000 gpm. The GOU has continued to operate at full capacity since that date, and treated water from the facility continues to meet all Federal and State drinking water requirements including the MCL for chromium.

The GOU treated water, like North Hollywood and Burbank treated water, is blended with water obtained from MWD.

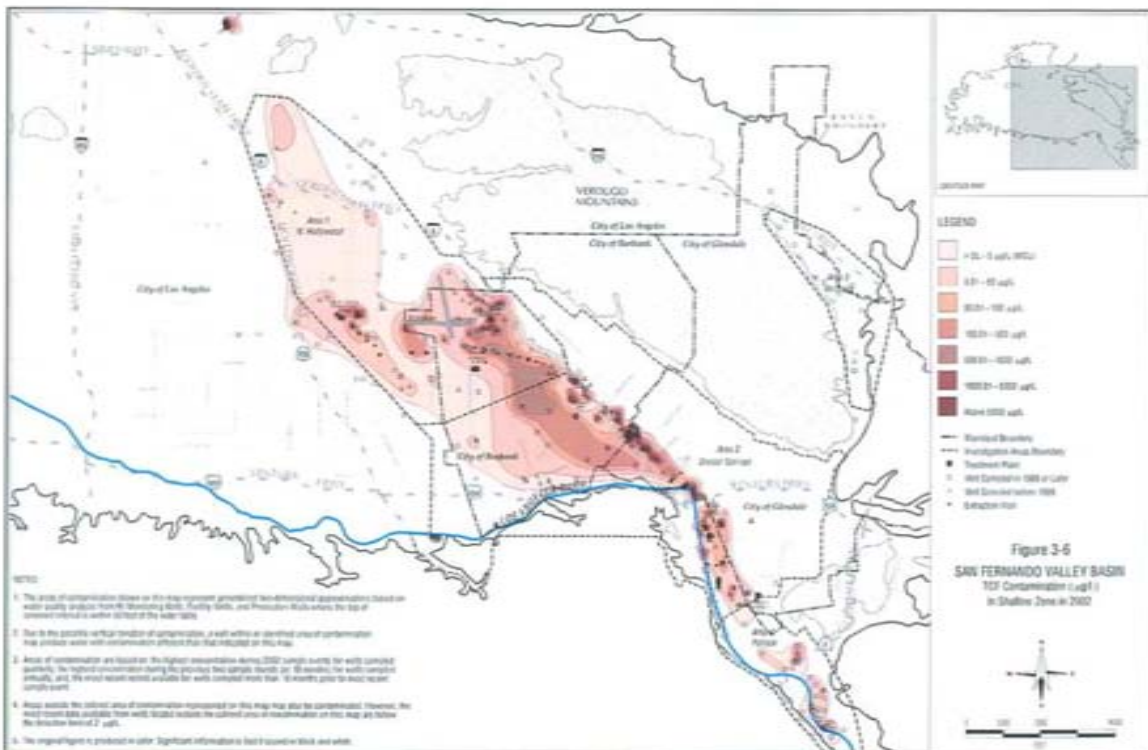
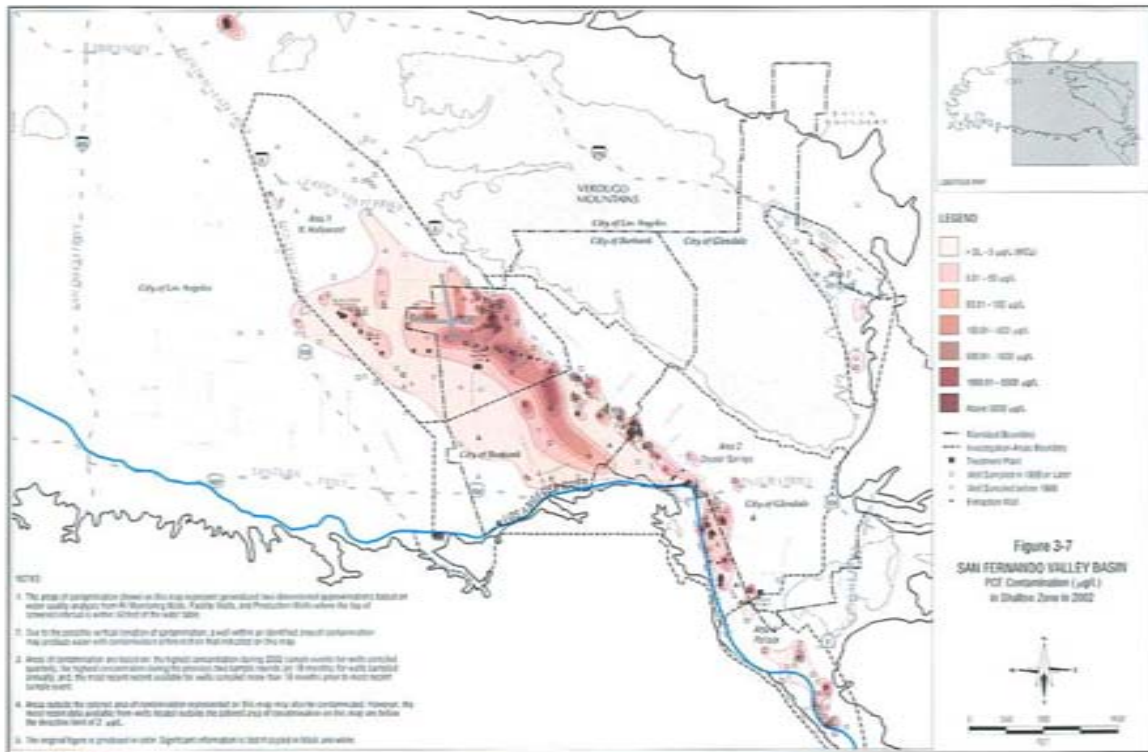
## **AREA 3 - VERDUGO STUDY AREA**

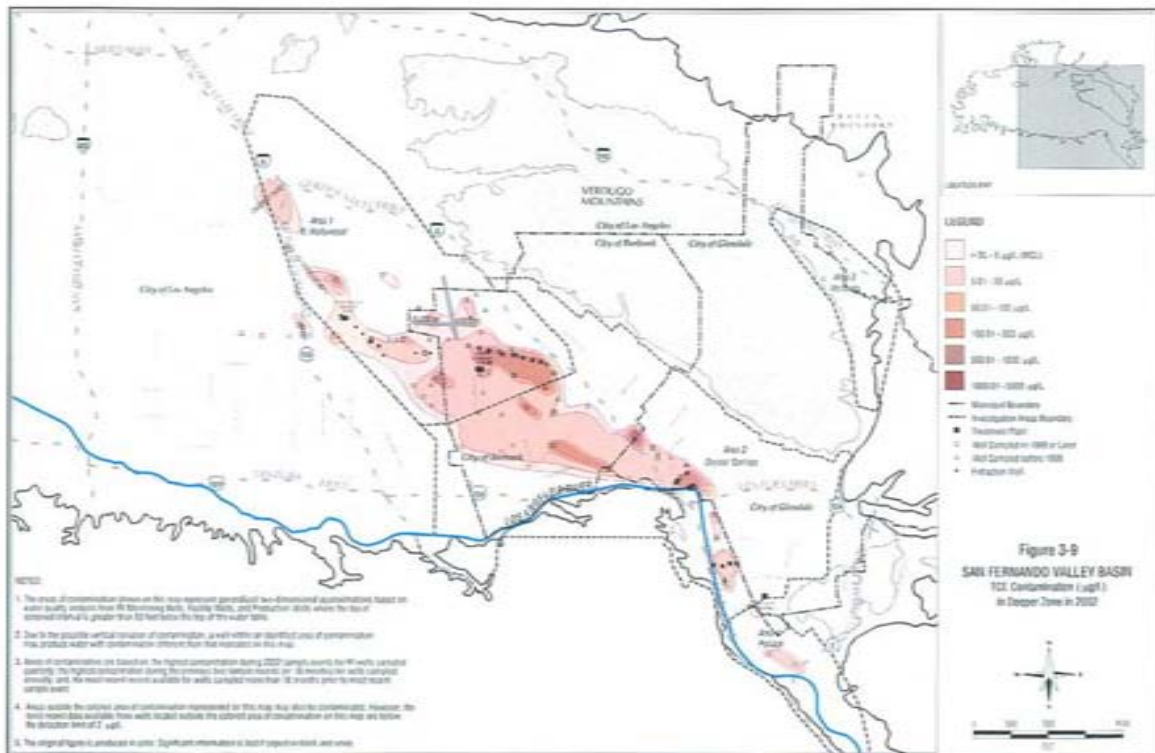
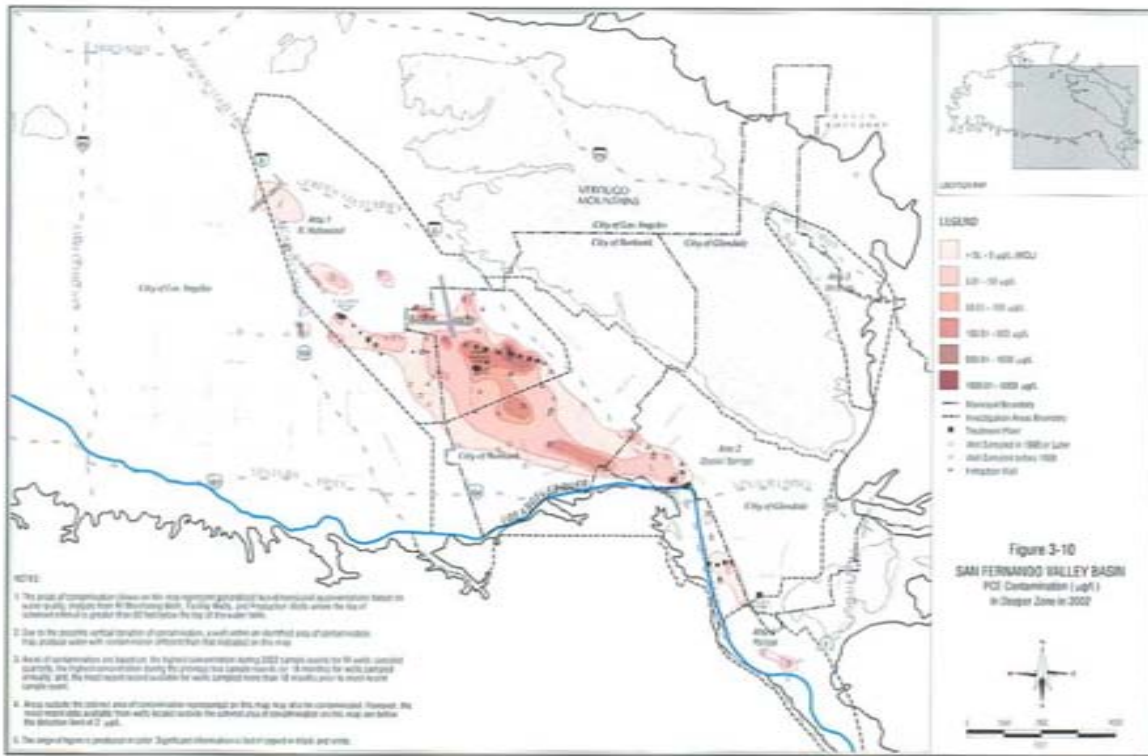
The Verdugo Study Area includes the groundwater in and around several wellfields located in the Verdugo Basin. To date, PCE has been the only VOC detected at or above its MCL of 5 ppb, with a detection at 10 ppb in 1993. Subsequent sampling results have been less than the MCL. TCE has never been detected above the MCL of 5 ppb. EPA continues to monitor the groundwater quality of the Verdugo Basin through its basinwide monitoring. Under a grant from EPA, the LARWQCB conducted an investigation of potential contaminant sources in the Verdugo Basin. The report was completed in September 2000 and no significant sources of groundwater contamination were identified. EPA plans to prepare a proposed plan for cleanup and Record of Decision within the next year.

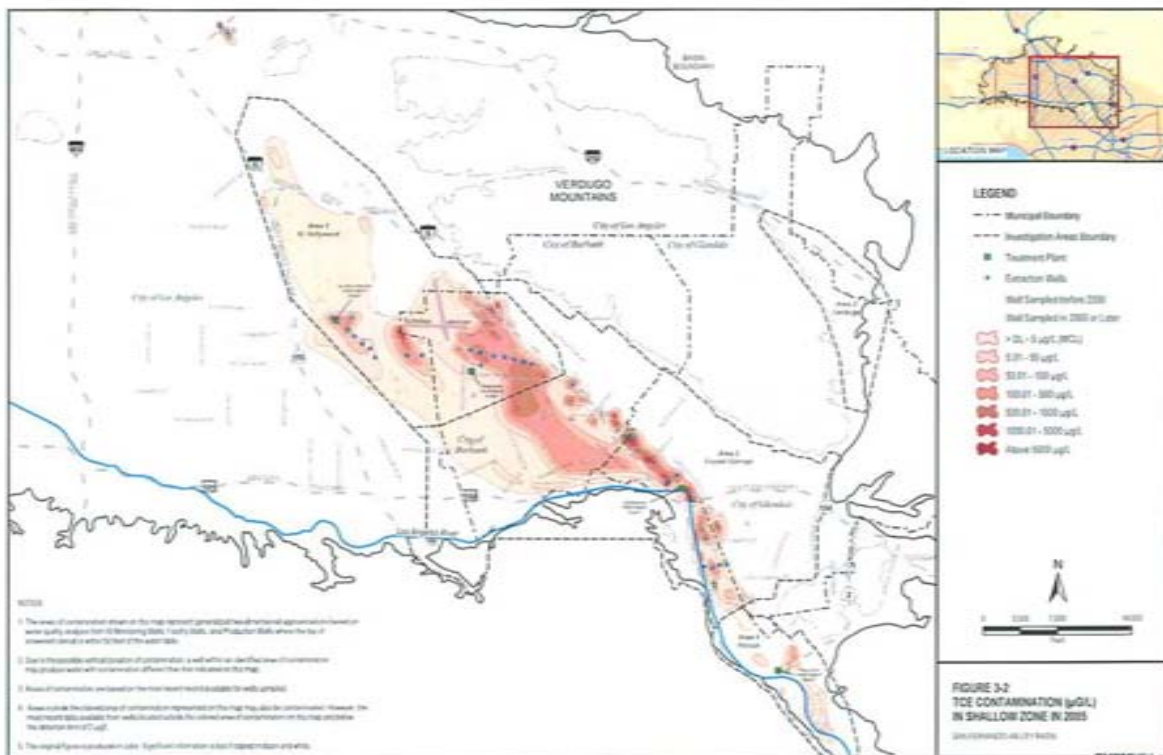
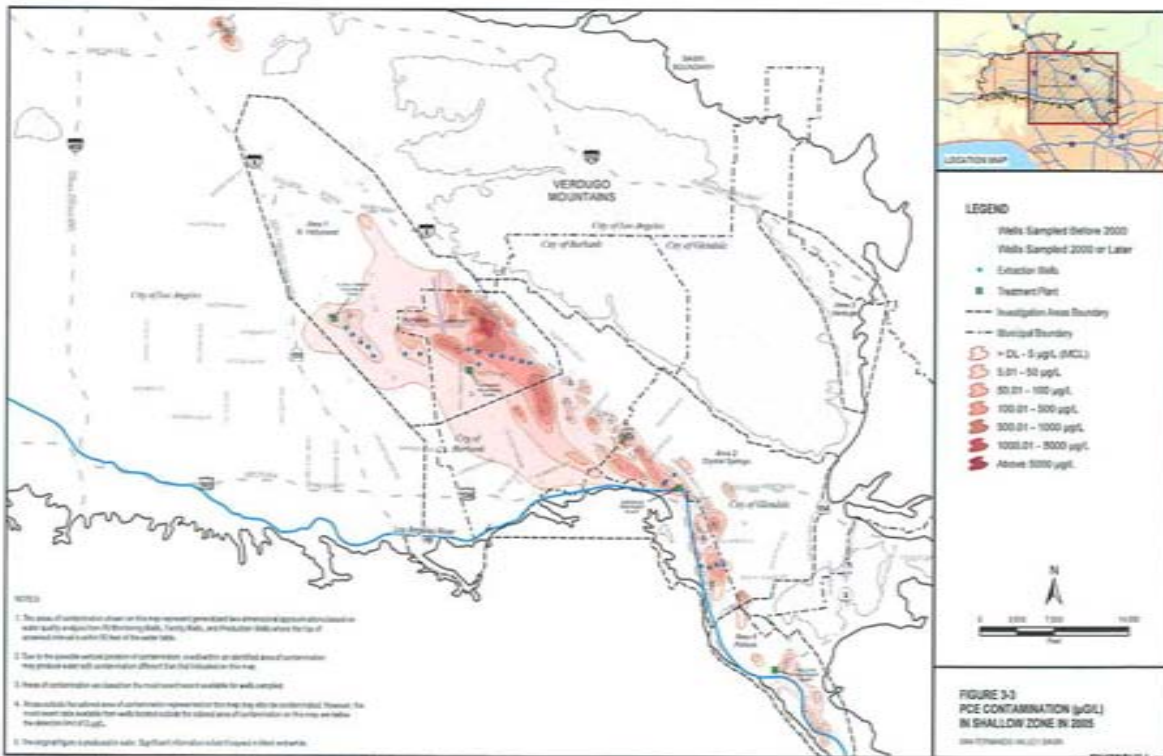
## **AREA 4 - POLLOCK STUDY AREA**

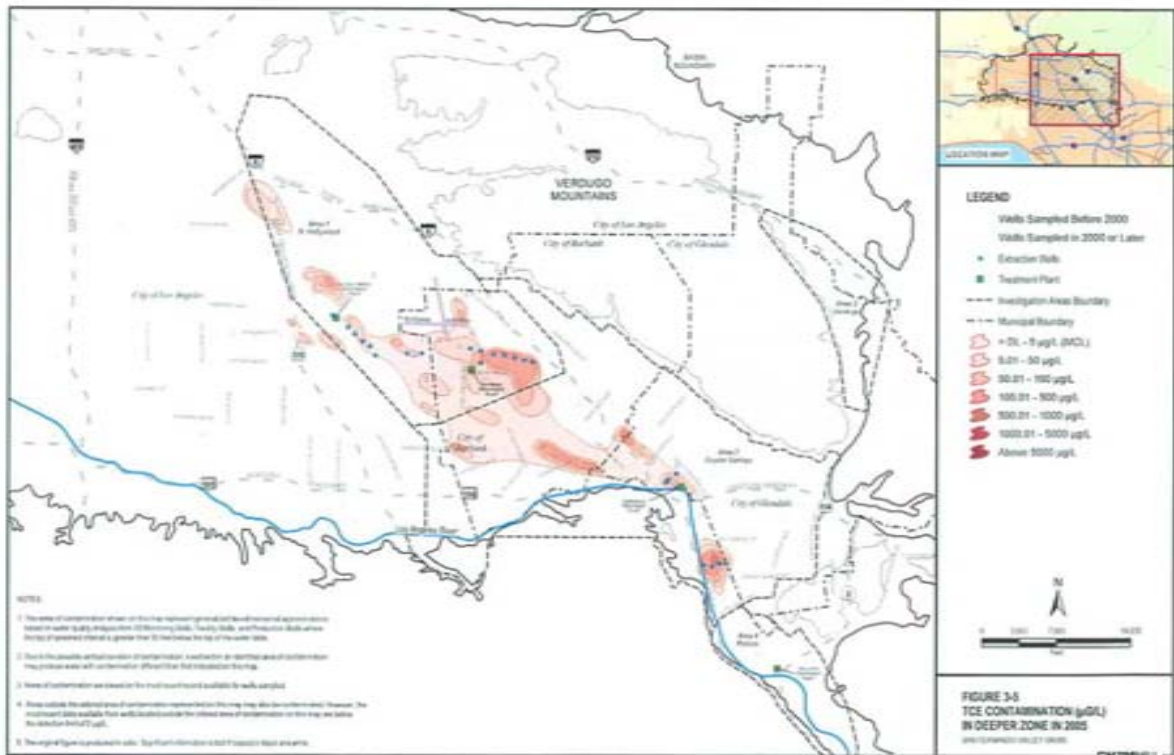
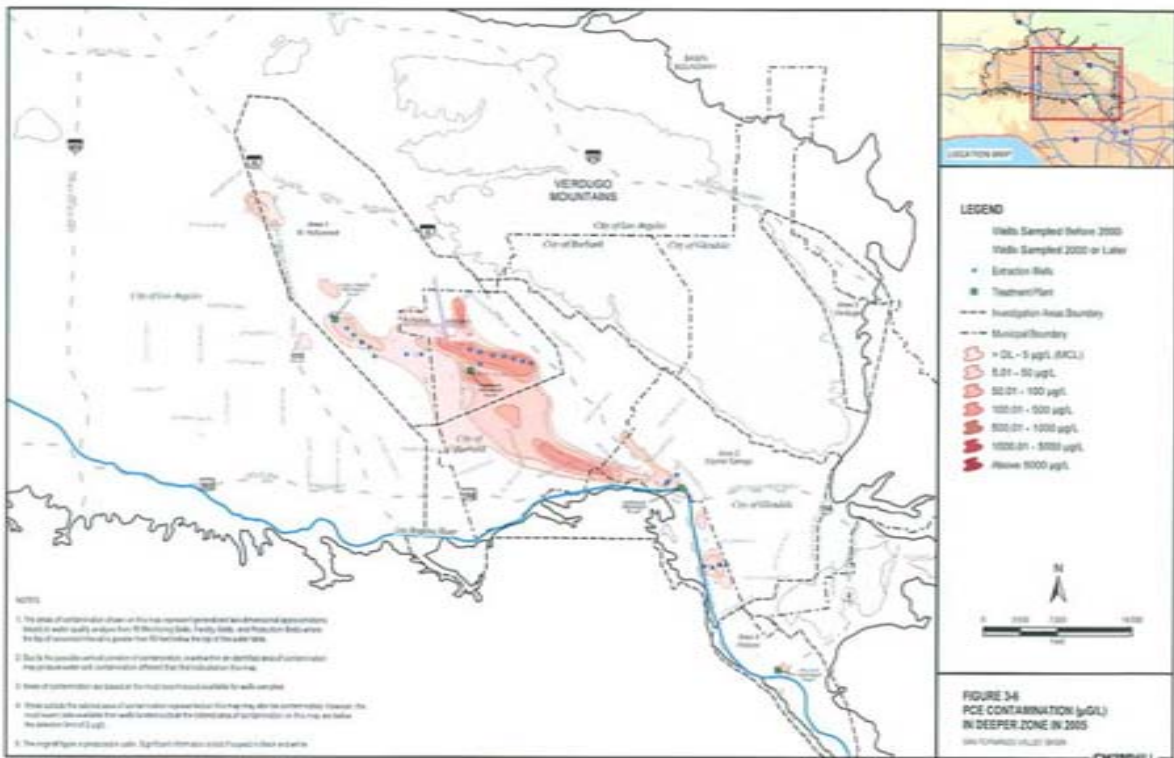
The Pollock Study area is located at the southern portion of the San Fernando Valley Basin near LADWP's Pollock Wellfield. In 1994, EPA completed a site assessment of this area and determined that establishing an OU in the Pollock area was not necessary at that time because LADWP planned to conduct a wellhead treatment project in the Pollock Wellfield which would treat groundwater in the Pollock study area.

In March 1999, LADWP reactivated two wells in the Pollock Wellfield and began operating a 3,000 gpm groundwater treatment plant. The water is treated to drinking water standards by liquid-phase granular activated carbon and transferred to LADWP's public water supply. Pumping in the Pollock Wellfield is expected to capture nearly all the contamination upgradient of the wellfield that is not captured by EPA's OUs and prevent movement of contaminated groundwater into the Los Angeles River. EPA plans to evaluate the effectiveness of the Pollock Wellfield project as part of the Basinwide FS and ROD.

















Groundwater Monitoring Report  
For November 2006

Former Franciscan Ceramics Facility  
2901 Los Feliz Boulevard  
Los Angeles, California

The material and data in this report were prepared under the supervision and direction of the undersigned.

EnviroSolve Corporation

*Chris Nevison*

Chris Nevison  
Staff Geologist



*Paul Chang*

Paul Chang, C.H.G.  
Project Geologist

4/9/07  
Date

CONTENTS

<b>1</b>	<b>INTRODUCTION</b>
1.1	Background
1.2	Geologic and Hydrogeologic Setting
<b>2</b>	<b>SITE ACTIVITIES</b>
2.1	Groundwater Elevation Measurements
2.2	Groundwater Well Purging Procedures
2.3	Groundwater Waste Disposal
2.4	Groundwater Sampling and Analysis
<b>3</b>	<b>SUMMARY OF FINDINGS</b>
3.1	Groundwater Well Monuments and Locations
3.2	Clay Cap Maintenance
3.3	Groundwater Elevation and Flow
3.4	Analysis Results
3.5	Conclusion

TABLES

Table 1	Summary of Groundwater Elevation Measurements
Table 2	Summary of Groundwater Analytical Results

FIGURES

Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Groundwater Contours and Concentrations
Figure 4	Groundwater Elevation Hydrograph
Figure 5a	Concentrations of Cadmium vs Time
Figure 5b	Concentrations of Lead vs Time
Figure 5c	Concentrations of Zinc vs Time
Figure 6a	Concentrations of Cadmium vs pH
Figure 6b	Concentrations of Lead vs pH
Figure 7a	Concentrations of Cadmium vs Groundwater Temperature
Figure 7b	Concentrations of Lead vs Groundwater Temperature
Figure 8a	Concentrations of Cadmium vs Groundwater Turbidity
Figure 8b	Concentrations of Lead vs Groundwater Turbidity

APPENDIX A

Field Data Sheets  
Monitoring Well Gauging Form  
Low-Flow Purge Data Sheets  
Unlabeled Hazardous Waste Manifest

APPENDIX B

Certified Analytical Reports and Chain-of-Custody Documentation

## 1 INTRODUCTION

This groundwater monitoring report summarizes activities conducted by EnviroSolve Corporation (EnviroSolve) during biennial groundwater monitoring of November 2006 at the former Franciscan Ceramics property (Site) located at 2901 Los Feliz Boulevard, Los Angeles, California (Figure 1). Groundwater monitoring for the site is under the jurisdiction of the State of California Environmental Protection Agency, Department of Toxic Substances Control (DTSC).

### 1.1 Background

The former Franciscan Ceramics property was used to manufacture ceramic tiles, dinnerware and clay pipe from approximately 1895 to 1998. Excavated unfired glazing material that contained hazardous concentrations of lead, cadmium, and zinc had been deposited in low-lying areas of the site. Remediation work was conducted in 1999 and included excavation and off-site disposal of contaminated soil, and placement of a clay cap over contaminated soil that remained on-site.

The site covers an area of approximately 45 acres. The southern portion of the former Franciscan Ceramics property was developed into a shopping center during 1999. Since initial development, the shopping center was expanded to include a Best Buy store along the central-western property boundary during late 1999 and early 2000. Church buildings occupy the northern portion of the property that includes the capped area, a paved parking area south of the church buildings, and an unpaved area southeast of the church buildings.

The DTSC established a groundwater monitoring program for the former Franciscan Ceramics site, which includes the sampling and analysis of groundwater monitoring wells located along the perimeter of the site (Figure 2). The purpose of the groundwater monitoring program is to determine if heavy metals are migrating vertically and impacting groundwater. Concentrations of lead, cadmium and zinc in groundwater samples collected from selected monitoring wells are used as indicator parameters determining the potential for groundwater contamination.

Six monitoring wells (HLA-1, HMW-1, HMW-2, WCW-2, WCW-3 and OW-4) were destroyed in May 1998 to accommodate construction activities associated with redevelopment of the southern portion of the property. The wells were destroyed in accordance with the DTSC approved Well Relocation Work plan prepared by SECOR (May 20, 1998) and the California Department of Water Resources Bulletin 74-90 and 74-81. Five of these six wells are replaced by installing wells in close proximity to the original locations and screening the wells in equivalent hydrogeologic intervals. The replacement well names consist of the original well name followed by the letter "R". For example, well OW-4 was replaced by well OW-4R. Well WCW-3 was not replaced based on rationale provided in a letter from SECOR to the DTSC dated May 5, 1997, and subsequent DTSC concurrence as outlined in a letter from the DTSC dated May 8, 1997.

Prior to May 1995 groundwater monitoring was conducted on a quarterly basis. From 1998 to 2000, groundwater monitoring was conducted on an annual basis in ten groundwater monitoring wells (HLA-1R, HMW-1R, HMW-2R, OW-2, OW-3, OW-4R, OW-5, WCW-1, WCW-2R, WCW-4). In 2000, monitoring requirements were revised to eliminate well HMW-2R from the annual monitoring program (DTSC correspondence dated September 12, 2000). The current monitoring program consists of gauging, purging and sampling ten existing groundwater monitoring wells for cadmium, lead and zinc on a biennial basis in accordance with the Sampling and Analysis Plan dated July 31, 2002. The wells included in the current monitoring program are shown below.

Well Number	Disposition	Location
HLA-1R	Sampled Nov 2006	South property
HMW-1R	Sampled Nov 2006	South property
HMW-2R	Gauge only. Do not sample.	South property
OW-2	Sampled Nov 2006	North side of property
OW-3	Sampled Nov 2006	North side of property
OW-4R	Sampled Nov 2006	South property
OW-5	Lost. Not monitored since July 2000.	North side of property
WCW-1	Sampled Nov 2006	North side of property
WCW-2R	Sampled Nov 2006	South property
WCW-4	Sampled Nov 2006	North side of property

### 1.2 Geologic and Hydrogeologic Setting

The site is underlain by unconsolidated alluvial sediments that consist of sandy silt, silty sand, gravelly sand, sandy gravel, and granitic cobbles. These sediments extend to approximately 200 to 250 feet below ground surface (bgs) and were deposited as part of the Los Angeles River Narrows (Harding Lawson Associates, (HLA) 1990). Water-bearing deposits beneath the site are part of the Gaspar Aquifer (HLA, 1990). Previous groundwater monitoring reports indicate that groundwater is present at approximately 40 feet bgs and generally flows in a southerly direction. The closest surface water is the Los Angeles River located approximately 2000 feet west of the site.

EnviroSolve conducted groundwater monitoring activities using procedures consistent with those outlined in the following documents:

- "2004 Bi-Annual" Groundwater Monitoring Report dated September 2, 2004, prepared by Secor
- "DTSC Comments On Groundwater Monitoring Report For Former Franciscan Ceramics Site" dated March 14, 2005 (Refers to the 2004 Bi-Annual Groundwater Monitoring Report prepared by Secor)
- "DTSC Comments On Biennial Groundwater Monitoring Report" (Refers to the 2002 Annual Groundwater Monitoring Report prepared by Secor)

### 2.1 Groundwater Elevation Measurements

On November 29, 2006, EnviroSolve measured the depth to water in nine wells HLA-1R, HMW-1R, HMW-2R, OW-2, OW-3, OW-4R, WCW-1, WCW-2R and WCW-4. Well OW-5 could not be located and was not gauged or sampled. As directed by the DTSC, well HMW-2R was gauged but not sampled. Depth to water was measured to the nearest 0.01 foot using an electronic water level meter. Data was recorded on a Monitoring Well Gauging Form (Appendix A). The water level meter probe and measuring tape were decontaminated after each use between wells using standard triple-rinse methods.

Table 1 presents the groundwater elevation history for the monitoring wells and Figure 3 shows the groundwater elevation contours. Figure 4 shows a groundwater elevation hydrograph of the subject wells over time.

### 2.2 Groundwater Well Purging Procedure

On November 29 and 30, 2006, EnviroSolve purged and sampled eight wells: HLA-1R, HMW-1R, OW-2, OW-3, OW-4R, WCW-1, WCW-2R and WCW-4. Well OW-5 could not be located and was not sampled. The wells were purged using a MicroPurge submersible MPST 1 1/2 inch pump with a MicroPurge MP200T (flow cell). Wells were purged at an approximate rate of 200 ml per minute. Depth to water, temperature, electrical conductivity, pH, dissolved oxygen, percent dissolved oxygen, ORP, turbidity and total dissolved solids were monitored during purging using the flow cell. Wells were purged until parameters were stable to within +/- 10% of the previous two measurements. Measurements were recorded on Low-Flow Purge Data Sheets (Appendix A).

### 2.3 Groundwater Waste Disposal

Groundwater purged from the wells was transferred into a DOT approved 55-gallon drum and stored temporarily at the site. The drum was labeled with contents, contact information, and date generated. The drum was transported to Deterro Kerdon, a licensed waste disposal facility, on January 2, 2007. The uniform Hazardous Waste Manifest is presented in Appendix A.

### 2.4 Groundwater Sampling and Analysis

Groundwater samples were collected from the discharge hose of the pump directly into laboratory prepared containers. The containers were then labeled and placed on ice in a cooler. Samples were transported to Columbia Analytical Services, a California-certified laboratory, in Simi Valley, California for analysis. Collected samples were analyzed for Total Metals by method 6020 for cadmium, lead, and zinc. Figure 2 shows the locations of the wells and Table 2 summarizes the sampling results. Certified analytical reports and chain-of-custody documentation are included in Appendix B.

### 3.1 Groundwater Well Monuments and Locations

Wells HMW-1R and HMW-2R were placed incorrectly on the Secor map dated August 2004. HMW-1R is actually located nearer to the Costco building than was shown on the map, and HMW-2R is actually located where HMW-2 was shown on the map. EnviroSolve revised the map to more accurately reflect the location of the wells.

The location and disposition of OW-5 has been unknown since at least July 2004, and may be covered by landscaping and soil. EnviroSolve attempted to locate the well in November 2006 by visually scanning the area where the well is shown on the map (Figure 2), and by using a metal detector to scan the area in an effort to locate a metal wellbox cover that is typically used to protect groundwater wells. The well could not be located and was not gauged or sampled.

Well WCW-2R was purged and sampled by EnviroSolve. The 4-inch well had a 1-inch diameter PVC pipe inside the casing that extended to the bottom of the well. The 1-inch pipe was removed and disposed of and the well was purged and sampled.

### 3.2 Clay Cap Maintenance

The clay capped area between the church buildings and the shopping center is covered with asphalt. No degradation to the asphalt surface was observed.

### 3.3 Groundwater Elevation and Flow

Groundwater elevations increased approximately 1.2 feet when compared to the previous monitoring event in July 2004. The direction of groundwater flow remains southerly with an approximate gradient of 0.002 feet/feet (Figure 3).

### 3.4 Analysis Results

The Maximum Contaminant Levels (MCL's) as recommended for this site by the DTSC are:

- Cadmium: 0.005 mg/L
- Lead: 0.015 mg/L
- Zinc: No current MCL

Metals were detected above the MCL in the following wells:

- Upgradient well WCW-1: Cadmium (0.010 mg/L), Lead (0.037 mg/L)

The maximum concentrations of cadmium, lead, and zinc detected in the samples collected during this monitoring event were:

- Cadmium: in well WCW-1 at 0.010 mg/L
- Lead: in well WCW-1 at 0.037 mg/L
- Zinc: in well WCW-1 at 0.069 mg/L

The maximum concentrations were detected in hydraulically upgradient well WCW-1.

The equipment blank was collected on the second day of sampling after the equipment was decontaminated using normal equipment decontamination procedures used between wells. The sample was collected by running distilled water over the sample equipment and filling the sample containers. Laboratory results indicate the presence of trace concentration of zinc (0.0015 mg/l) in the equipment blank. However, the concentrations found in the equipment blank are relatively low compared to the results of most of the sampled wells. Therefore, the possible impact of zinc from the equipment as indicated by the equipment blank does not appear to adversely impact the results of this sampling event.

Figures 5a, 5b, and 5c show the concentrations of cadmium, lead, and zinc, respectively, over time since 1995. The charts display the current laboratory MCL's for each well when the reported level of the target constituent is ND or below the MDL. The charts are useful in displaying the concentrations of cadmium, lead, and zinc as they relate to the MCL.

The charts show that concentrations of cadmium, lead, and zinc are highest in WCW-1. Concentrations of cadmium, lead, and zinc in well WCW-1 are not clustered with the rest of the wells as they have been since the 2000 sampling event, and appear to be anomalous for this event.

Figures 6a and 6b chart the concentrations of cadmium and lead versus pH, respectively. The charts reveal no apparent grouping of cadmium or lead versus pH for the November 2005 monitoring event.

Figures 7a and 7b chart the concentrations of cadmium and lead versus temperature, respectively. The charts reveal no apparent grouping of cadmium or lead versus temperature for the November 2005 monitoring event.

Figures 8a and 8b chart the concentrations of cadmium and lead versus turbidity, respectively. The chart shows that WCW-1 has the highest concentrations of cadmium and lead, and has the highest turbidity (512 NTU) compared to all other wells (0 to 30 NTU). Based on this data, it appears that high turbidity in upgradient well WCW-1 caused an anomalously high detection of metals due to sediment in the groundwater samples.

### 3.5 Conclusion

Groundwater elevations increased approximately 1.2 feet since the previous monitoring event. The groundwater direction and flow remain fairly consistent.

In summary, concentrations of cadmium and lead exceed the respective MCL this monitoring period only in the upgradient well WCW-1. The maximum concentrations of cadmium, lead, and zinc detected in the samples were 0.010 mg/L cadmium, 0.037 mg/L lead, and 0.009 mg/L zinc in hydraulically upgradient well WCW-1. Anomalously high metals in the well may have been due to sediments in the groundwater as evidenced by the high turbidity results. Concentrations of cadmium and lead were below the MCL in all other upgradient and downgradient wells.

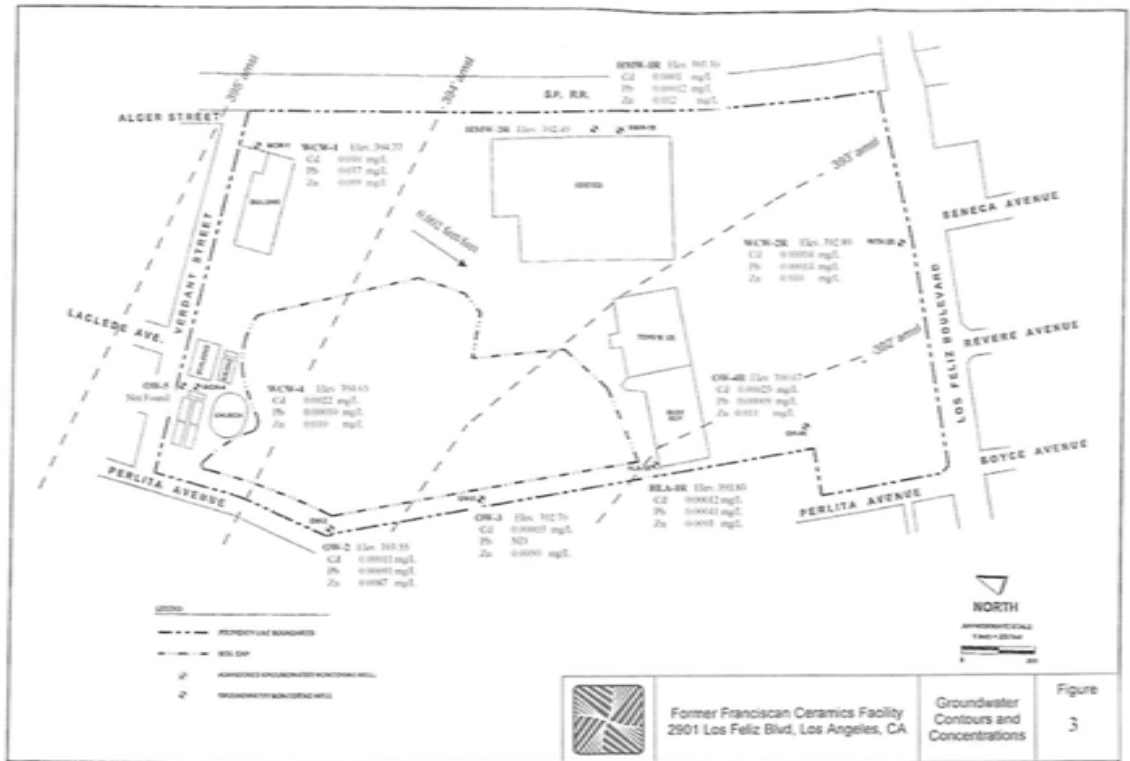
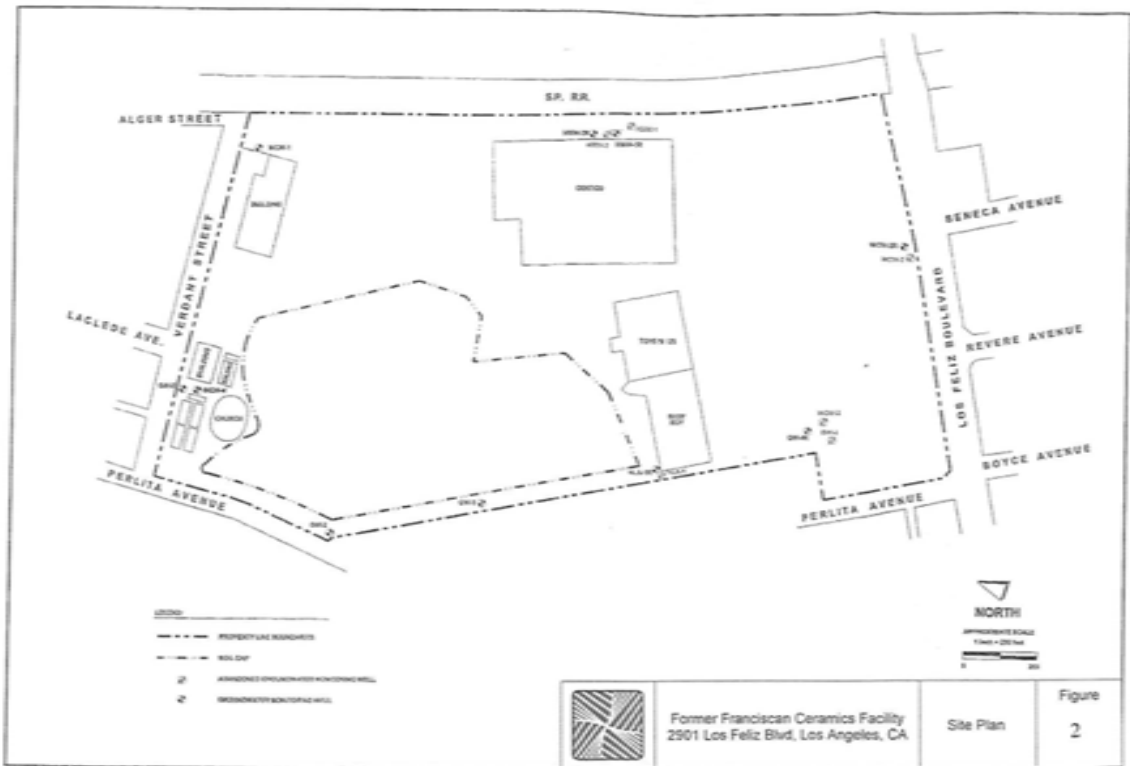


Table 1. Summary of Groundwater Elevation Measurements  
Former Franciscan Ceramics Facility  
2901 Los Feliz Boulevard  
Los Angeles, California

Well Number	*Reference Elevation (feet)	Date	**Depth to Groundwater (feet)	*Groundwater Elevation (feet)
HLA-1R	433.77	8/5/1998	35.82	394.45
		10/13/1999	38.86	394.41
		9/14/2000	40.15	393.12
		7/31/2002	41.98	391.29
		7/26/2004	42.60	390.97
		11/29/2006	41.44	391.83
HMW-1R	438.92	8/5/1998	42.05	396.17
		10/13/1999	42.64	396.18
		9/14/2000	44.03	394.79
		7/31/2002	46.10	392.72
		7/26/2004	46.89	391.93
		11/29/2006	45.32	393.30
HMW-2R	438.10	8/5/1998	42.67	395.93
		10/13/1999	42.59	395.51
		9/14/2000	NM	na
		7/31/2002	46.16	391.94
		7/26/2004	46.54	391.16
		11/29/2006	45.61	392.46
OW-2	NA	8/5/1998	37.64	na
		10/13/1999	37.69	na
		9/14/2000	39.15	na
	431.96	7/31/2002	41.10	na
		7/26/2004	39.51	392.45
		11/29/2006	38.41	393.55
OW-3	431.47	8/5/1998	37.07	na
		10/13/1999	37.10	na
		9/14/2000	38.44	na
		7/31/2002	40.32	na
		7/26/2004	39.94	391.93
		11/29/2006	38.77	392.70
OW-4R	434.93	8/5/1998	31.80	393.13
		10/13/1999	31.83	393.10
		9/14/2000	33.10	391.83
		7/31/2002	34.87	390.06
		7/26/2004	35.45	389.48
		11/29/2006	34.29	390.67

* = Reference and groundwater elevations are to mean sea level  
 ** = Depth to water measurements are from top of casing  
 na = Not Available  
 NM = Not Measured  
 NM* = OW-5 not found

Table 1. Summary of Groundwater Elevation Measurements  
Former Franciscan Ceramics Facility  
2901 Los Feliz Boulevard  
Los Angeles, California

Well Number	*Reference Elevation (feet)	Date	**Depth to Groundwater (feet)	*Groundwater Elevation (feet)
OW-5		8/5/1998	37.13	na
		10/13/1999	37.19	na
		9/14/2000	38.73	na
		7/31/2002	40.69	na
		7/26/2004	NM*	na
		11/29/2006	NM*	na
WCW-1	442.44	8/5/1998	44.25	398.19
		10/13/1999	44.27	398.17
		9/14/2000	45.06	396.45
	440.13	7/31/2002	48.13	394.31
		7/26/2004	46.71	393.42
		11/29/2006	45.95	394.77
WCW-2R	438.20	8/5/1998	45.05	393.15
		10/13/1999	45.00	393.11
		9/14/2000	46.41	391.79
		7/31/2002	48.31	389.89
		7/26/2004	NM	na
		11/29/2006	45.21	392.99
WCW-4	438.58	8/5/1998	38.67	397.92
		10/13/1999	38.68	397.91
		9/14/2000	40.34	396.29
	435.23	7/31/2002	42.40	394.19
		7/26/2004	41.71	393.59
		11/29/2006	40.56	394.68

* = Reference and groundwater elevations are to mean sea level  
 ** = Depth to water measurements are from top of casing  
 na = Not Available  
 NM = Not Measured  
 NM* = OW-5 not found

Table 2. Summary of Groundwater Analytical Results.  
Former Franciscan Ceramics Facility  
2801 Los Feliz Boulevard  
Los Angeles, California

Well Number	Cadmium (mg/L)									
	May-95	May-96	May-97	Aug-98	Oct-98	Sep-00	Jul-02	Jul-04	Nov-05	
HLA-1/HLA-1R	<0.001	NS	<0.005	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	0.00072
HMW-1/HMW-1R	<0.001	<0.01	<0.005	<0.01	<0.01	<0.01	<0.01	0.000053 J	0.00001	
HMW-2/HMW-2R	<0.001	<0.01	<0.005	<0.01	<0.01	NS	<0.01	NS	NS	
DW-2	<0.001	ND	<0.005	<0.01	<0.01	<0.01	<0.01	0.00028 J	0.00011	
DW-3	<0.001	ND	<0.005	<0.01	<0.01	<0.01	<0.01	0.000071 J	0.00003 J	
DW-4/DW-4R	<0.001	<0.01	<0.005	<0.01	<0.01	<0.01	<0.01	0.000076 J	0.00023	
DW-5	<0.001	ND	<0.005	<0.01	<0.01	<0.01	<0.01	NS	NS	
WCW-1	<0.001	<0.01	<0.005	<0.01	<0.01	<0.01	<0.01	0.000419 J	0.010	
WCW-2/WCW-2R	<0.001	<0.01	<0.005	<0.01	<0.01	<0.01	<0.01	NS	0.00004 J	
WCW-3	<0.001	<0.01	<0.005	<0.01	<0.01	Well Destroyed May 1999	<0.01	<0.01	0.0002	
WCW-4	<0.001	ND	<0.005	<0.01	<0.01	<0.01	<0.01	<0.00148	0.0002	
Trap Blank								<0.001		
Equipment Blank								<0.001	ND	U
Method Blank								<0.001	ND	U
DTSC Recommended Detection Limit									0.001	
Method Detection Limit									0.00001	
DTSC recommended Maximum Contaminant Level (MCL) for Cadmium									0.005	

mg/L

Miligrams per liter (ppm)

ND Not detected

NS Not Sampled

J Analyte detected at a concentration above the MDL and below the PQL or MRL. Estimated value.

MDL Method Detection Limit

MRL Minimum Reporting Limit

PQL Practical Quantifiable Limit

U Less than the MCL or not detected

Table 2. Summary of Groundwater Analytical Results.  
Former Franciscan Ceramics Facility  
2801 Los Feliz Boulevard  
Los Angeles, California

Well Number	Lead (mg/L)									
	May-95	May-96	May-97	Aug-98	Oct-98	Sep-00	Jul-02	Jul-04	Nov-05	
HLA-1/HLA-1R	<0.003	NS	0.0127	<0.05	<0.05	<0.005	<0.05	<0.001	<0.00041 J	0.00041 J
HMW-1/HMW-1R	<0.003	<0.005	<0.005	<0.05	<0.05	<0.005	<0.05	0.000241 J	0.00012 J	
HMW-2/HMW-2R	<0.003	<0.005	<0.005	<0.05	<0.05	NS	<0.05	NS	NS	
DW-2	<0.003	ND	<0.005	<0.05	<0.05	<0.005	<0.05	0.000144 J	0.00019 J	
DW-3	<0.003	MD	<0.005	<0.05	<0.05	<0.005	<0.05	0.000429 J	ND	U
DW-4/DW-4R	<0.003	0.0004	<0.005	<0.05	<0.05	<0.005	<0.05	0.000031 J	0.00009 J	
DW-5	<0.003	ND	<0.005	<0.05	<0.05	<0.005	<0.05	NS	NS	
WCW-1	0.0031	ND	0.008	<0.05	<0.05	<0.005	<0.05	0.000027 J	0.037	
WCW-2/WCW-2R	<0.003	<0.005	<0.005	<0.05	<0.05	<0.005	<0.05	NS	0.00014 J	
WCW-3	<0.003	0.0028	<0.005	<0.05	<0.05	Well Destroyed May 1999	<0.05	<0.000283 J	0.00010 J	
WCW-4	<0.003	ND	<0.005	<0.05	<0.05	<0.005	<0.05	<0.001	ND	U
Trap Blank								<0.001		
Equipment Blank								<0.001	ND	U
Method Blank								<0.001	ND	U
DTSC Recommended Detection Limit									0.003	
Method Detection Limit									0.00004	
DTSC recommended Maximum Contaminant Level (MCL) for Lead									0.015	

mg/L

Miligrams per liter (ppm)

ND Not detected

NS Not Sampled

J Analyte detected at a concentration above the MDL and below the PQL or MRL. Estimated value.

MDL Method Detection Limit

MRL Minimum Reporting Limit

PQL Practical Quantifiable Limit

U Less than the MCL or not detected

Table 2. Summary of Groundwater Analytical Results  
 Former Franciscan Ceramics Facility  
 2901 Los Felis Boulevard  
 Los Angeles, California

Well Number	Zinc (mg/L)										
	May-95	May-96	May-97	Aug-98	Oct-99	Sep-00	Jul-02	Jul-04	Nov-06		
HLA-1/HLA-1R	0.025	NS	0.27	<0.05	<0.05	<0.05	0.001	0.01420	0.0093	J	
HMW-1/HMW-1R	<0.000	<0.05	0.186	<0.05	<0.05	<0.05	0.064	0.0196	0.012	NS	
HMA-2/HMA-2R	0.020	<0.05	0.0575	<0.05	<0.05	NS	0.064	NS	NS	NS	
DVA-2	<0.000	ND	0.0493	<0.05	<0.05	<0.05	0.068	0.00468	0.0087	J	
DVA-3	<0.000	ND	0.0286	<0.05	<0.05	<0.05	0.001	0.00778	0.0050	J	
DVA-4/DVA-4R	<0.000	0.058	0.0368	<0.05	<0.05	<0.05	0.001	0.0155	0.011	NS	
DVA-5	0.11	ND	0.0241	<0.05	<0.05	<0.05	0.063	NS	NS	NS	
WCVY1	0.057	0.05	0.083	<0.05	<0.05	<0.05	0.068	0.0091	0.099	J	
MCV-3/VCW-3R	<0.000	<0.05	0.0162	<0.05	<0.05	<0.05	0.060	NS	0.07	J	
WCVY3	<0.000	0.23					Well Destroyed May 1999				
WCVY4	<0.000	ND	0.031	<0.05	<0.05	<0.05	0.068	0.0105	0.010		
Tri-Blank								<0.005			
Scrapmetal Blank								<0.005			
Method Blank									0.0015	J	
Method Detection Limit									0.0002	J	
DTSC recommended Maximum Contaminant Level (MCL) for Zinc									0.0018	J	
											no current MCL

mg/L  
 ND Not detected  
 NS Not Sampled  
 J Analyte detected at a concentration above the MCL and below the PCL or MPL. Estimated value.  
 MDL Method Detection Limit  
 MRL Minimum Reporting Limit  
 PQL Practical Quantifiable Limit  
 U Less than the MCL of this detected



Linda S. Adams  
 Secretary for  
 Environmental Protection

Department of Toxic Substances Control

Maureen F. Gorsen, Director  
 1001 "I" Street  
 P.O. Box 806  
 Sacramento, California 95812-0806



Arnold Schwarzenegger  
 Governor

EPA ID PROFILE

ID Number: CAC002591866 Name: PACIFIC STATE & BOX  
 Status: INACTIVE Inactive Date: 12/14/2005 Record Entered: 06/16/2005 Last Updated: 01/09/2006

County:	LOS ANGELES	NAICS:	SIC:			
	Name	Address	City	State	Zip Code	Phone
Location	PACIFIC STATE & BOX	1295 LOS ANGELES ST	GLENDALE	CA	912042403	
Mailing		1295 LOS ANGELES ST	GLENDALE	CA	91004	
Owner	PACIFIC STATE & BOX	1295 LOS ANGELES ST	GLENDALE	CA	91004	6182448688
Operator/ Contact	LEILA BRION	1295 LOS ANGELES ST	GLENDALE	CA	91004	6182448688

Based ONLY upon ID Number CAC002591866

Calif. Manifests ?	Non Calif. Manifests ?	Transporter Registration ?
YES	NO	NO

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

The Department of Toxic Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.



**Calif. Manifest Counts and Total Tonnage**

Top line represents Manifest Count and Bottom line represents Total Tonnage

	GENERATOR	TRANS. 1	TRANS. 2	TSDF	ALL TSDF
2005	1				
	1,0425				

**Non California Manifest Total Tonnage**

**Waste Code By Year By Entity Matrix Report  
(based on California Manifests only)**

Calif.	Generator	Transporter 1	Transporter 2	TSDF	All TSDF
RCRA	Generator	Transporter 1	Transporter 2	TSDF	All TSDF

**California Waste Code By Year Matrix**

ID Number: CAC002591886

Entity Type: GENERATOR

Weight (in Tons)

Ship Years

Calif. Code	Description	2005
241	TANK BOTTOM WASTE	1,0425
Grand Total		1,0425



Linda S. Adams  
Secretary for  
Environmental Protection

### Department of Toxic Substances Control

Maureen F. Gorsen, Director  
1001 "I" Street  
P.O. Box 806  
Sacramento, California 95812-0806



Arnold Schwarzenegger  
Governor

#### EPA ID PROFILE

ID Number: **CAC001415544** Name: COLOUR GROW  
Status: INACTIVE Inactive Date: 10/25/2000 Record Entered: 04/20/1998 Last Updated: 10/25/2000  
County: LOS ANGELES NAICS: SIC:

	Name	Address	City	State	Zip Code	Phone
Location	COLOUR GROW	440 W CYPRESS	GLENDALE	CA	912040000	
Mailing		440 W CYPRESS	GLENDALE	CA	912040000	
Owner	BOB JONES	440 W CYPRESS	GLENDALE	CA	912040000	8182410519
Operator/ Contact	JANNA JOHNSON/CAL WEST	2388 1ST ST	LA VERNE	CA	917505545	9095937731

Based ONLY upon ID Number **CAC001415544**

Calif. Manifests ?	Non Calif. Manifests ?	Transporter Registration ?
YES	NO	NO

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available)  
are on the next page

The Department of Toxic Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

Report Generation Date: 10/19/2007

1

#### Calif. Manifest Counts and Total Tonnage

Top line represents Manifest Count and Bottom line represents Total Tonnage

	GENERATOR	TRANS. 1	TRANS. 2	TSDF	ALT. TSDF
1998	2,0641				

#### Non California Manifest Total Tonnage

#### Waste Code By Year By Entity Matrix Report (based on California Manifests only)

Calif.	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF
RCRA	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF

Report Generation Date: 10/19/2007

2

California Waste Code By Year Matrix

ID Number: CAC001415544  
 Entity Type: GENERATOR  
 Weight (in Tons)  
 Ship Years

Calif. Code	Description	1998
214	UNSPECIFIED SOLVENT MIXTURE	2,0641
<b>Grand Total</b>		<b>2,0641</b>



Linda S. Adams  
 Secretary for  
 Environmental Protection

Department of Toxic Substances Control

Maureen F. Gorsen, Director  
 1001 "I" Street  
 P.O. Box 806  
 Sacramento, California 95812-0806



Arnold Schwarzenegger  
 Governor

EPA ID PROFILE

ID Number: CAD008477713 Name: MECHANICAL ENG. CO.  
 Status: INACTIVE Inactive Date: 08/30/2003 Record Entered: 12/27/1982 Last Updated: 11/17/2003  
 County: LOS ANGELES NAICS: 3329 SIC:

	Name	Address	City	State	Zip Code	Phone
Location	MECHANICAL ENG. CO.	433 FERNANDO CT	GLENDALE	CA	912042723	
Mailing		433 FERNANDO CT	GLENDALE	CA	912042723	
Owner	MECHANICAL ENG CO	433 FERNANDO CT	GLENDALE	CA	912042723	0000000000
Operator/ Contact	EVELYN ANDERSON	433 FERNANDO CT	GLENDALE	CA	912042723	3232458891

Based ONLY upon ID Number CAD008477713

Calif. Manifests ?	Non Calif. Manifests ?	Transporter Registration ?
YES	NO	NO

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

The Department of Toxic Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

Report Generation Date: 10/19/2007

**Calif. Manifest Counts and Total Tonnage**

Top line represents Manifest Count and Bottom line represents Total Tonnage

	GENERATOR	TRANS. 1	TRANS. 2	TSDF	Alt. TSDF
2000	2 0.1250				
2001	4 0.2500				
2002	1 0.0709				
2003	3 0.1668				

**Non California Manifest Total Tonnage**

**Waste Code By Year By Entity Matrix Report  
(based on California Manifests only)**

Calif.	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF
RCRA	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF

**California Waste Code By Year Matrix**

ID Number: CAD008477713

Entity Type: GENERATOR

*Weight ( in Tons)*

Ship Years

Calif. Code	Description	2000	2001	2002	2003
741	LHD W/ HALOGE ORGANIC COMP. &gt;= 1000 MG/L	0.1250	0.2500	0.0709	0.1668
<b>Grand Total</b>		<b>0.1250</b>	<b>0.2500</b>	<b>0.0709</b>	<b>0.1668</b>



Linda S. Adams  
Secretary for  
Environmental Protection

### Department of Toxic Substances Control

Maureen F. Gorsen, Director  
1001 "I" Street  
P.O. Box 806  
Sacramento, California 95812-0806



Arnold Schwarzenegger  
Governor

#### EPA ID PROFILE

ID Number: **CAC002569898** Name: MECHANICAL ENG. CO.  
Status: INACTIVE Inactive Date: 06/22/2004 Record Entered: 09/03/2003 Last Updated: 06/22/2004  
County: LOS ANGELES NAICS: SIC:

	Name	Address	City	State	Zip Code	Phone
Location	MECHANICAL ENG. CO	433 FERNANDO CT	GLENDALE	CA	91204	
Mailing		607 S GLENWOOD PLACE	BURBANK	CA	91506	
Owner	ROLAND GLASER	607 S GLENWOOD PLACE	BURBANK	CA	91506	8188410939
Operator/ Contact	JULIE ALVARADO	607 S GLENWOOD PLACE	BURBANK	CA	91506	8188410939

Based ONLY upon ID Number **CAC002569898**

Calif. Manifests ?	Non Calif. Manifests ?	Transporter Registration ?
YES	NO	NO

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available)  
are on the next page

The Department of Toxic Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

Report Generation Date: 10/19/2007

1

#### Calif. Manifest Counts and Total Tonnage

Top line represents Manifest Count and Bottom line represents Total Tonnage

GENERATOR	TRANS. 1	TRANS. 2	TSDF	ALT. TSDF
2003	1			
	1.8348			

#### Non California Manifest Total Tonnage

#### Waste Code By Year By Entity Matrix Report (based on California Manifests only)

Calif.	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF
RCRA	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF

Report Generation Date: 10/19/2007

2

California Waste Code By Year Matrix

ID Number: CAC002569698  
 Entity Type: GENERATOR  
 Weight (in Tons)  
 Ship Years

Calif. Code	Description	2003
222	OIL/WATER SEPARATION SLUDGE	1.8348
Grand Total		1.8348

ENTER FILE NO. M LETTER 112-0149

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
 LOS ANGELES REGION  
 CHEMICAL STORAGE AND USE QUESTIONNAIRE

I. COMPANY NAME: Mechanical Engineering Co.

II. FACILITY ADDRESS: 433 Fernando Court, Glendale, CA 91204

III. FACILITY INFORMATION

A. STANDARD INDUSTRIAL CLASSIFICATION CODE(SIC): 3591

B. GENERATOR NUMBER(EPA/STATE): CAD008477713

C. BRIEF DESCRIPTION OF OPERATIONS: machine shop, with CNCs, lathes, drills, etc.

D. SEWER SYSTEM: INDUSTRIAL _____ MUNICIPAL X  
 SEPTIC TANK _____ CESS POOL _____

WAS A DIFFERENT SEWER SYSTEM USED IN THE PAST? YES X NO  
 IF YES SPECIFY TYPE _____ DATE CONVERTED _____

E. FACILITY OWNER: Roland D. Glaser

F. HISTORY: DATE OPERATIONS BEGAN: Approx 1958

PRIOR OWNERS: E.W. Andersen, E.W. Andersen, Jr., W. Stevenson, G. Strickland, F.I. Merritt, D. Ebersbacher, S.F. Andersen

IV. CHEMICAL STORAGE AND USE AT THE SITE. Complete sections A-G(page 2) for all chemicals in current use or that have been used in the past, use additional sheets if necessary.

PAGE 1

- A. CHEMICAL NAME: _____ B. COMMON/TRADE NAME: US 7 (SOLVENT)
- C. METHOD OF STORAGE: UNDERGROUND TANK _____ ABOVE GROUND TANK _____  
BARRELS _____ OTHER(specify) 5 GALLON PAILS
- D. QUANTITY STORED: 20-40 GALLONS
- E. WASTE DISPOSAL METHOD: SEWERED _____ HAULED  ONSITE DISPOSAL _____
- F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES _____ NO _____  
If yes, method of treatment: _____
- G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES  NO _____

IN CURRENT USE

- A. CHEMICAL NAME: _____ B. COMMON/TRADE NAME: BURNISHING COMPOUND  
ALMCO 2320
- C. METHOD OF STORAGE: UNDERGROUND TANK _____ ABOVE GROUND TANK _____  
BARRELS _____ OTHER(specify) 5 GALLON PAILS
- D. QUANTITY STORED: 10 GALLONS
- E. WASTE DISPOSAL METHOD: SEWERED  HAULED _____ ONSITE DISPOSAL _____
- F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES _____ NO   
If yes, method of treatment: _____
- G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES _____ NO

IN CURRENT USE

- A. CHEMICAL NAME: PET. HYDROCARBONS  
AND ADDITIVES B. COMMON/TRADE NAME: OMICRON
- C. METHOD OF STORAGE: UNDERGROUND TANK _____ ABOVE GROUND TANK _____  
BARRELS  OTHER(specify) _____
- D. QUANTITY STORED: 55 GALLON
- E. WASTE DISPOSAL METHOD: SEWERED _____ HAULED  ONSITE DISPOSAL _____
- F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES _____ NO _____  
If yes, method of treatment: _____
- G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES  NO _____

IN CURRENT USE

2

- A. CHEMICAL NAME: _____ B. COMMON/TRADE NAME: VF-77
- C. METHOD OF STORAGE: UNDERGROUND TANK _____ ABOVE GROUND TANK _____  
BARRELS _____ OTHER(specify) 5 GALLON PAILS
- D. QUANTITY STORED: 10 GALLONS
- E. WASTE DISPOSAL METHOD: SEWERED  HAULED _____ ONSITE DISPOSAL _____
- F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES _____ NO   
If yes, method of treatment: _____
- G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES _____ NO

NO LONGER IN USE

- A. CHEMICAL NAME: NEUTRAL CLEANER B. COMMON/TRADE NAME: PURE MAGIC
- C. METHOD OF STORAGE: UNDERGROUND TANK _____ ABOVE GROUND TANK _____  
BARRELS _____ OTHER(specify) 5 GALLON PAILS
- D. QUANTITY STORED: 10 GALLONS
- E. WASTE DISPOSAL METHOD: SEWERED _____ HAULED  ONSITE DISPOSAL _____
- F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES  NO _____  
If yes, method of treatment: _____
- G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES  NO _____

NO LONGER IN USE

- A. CHEMICAL NAME: _____ B. COMMON/TRADE NAME: NF 1000
- C. METHOD OF STORAGE: UNDERGROUND TANK _____ ABOVE GROUND TANK _____  
BARRELS _____ OTHER(specify) 7 GALLON PAILS
- D. QUANTITY STORED: 24 GALLONS
- E. WASTE DISPOSAL METHOD: SEWERED _____ HAULED  ONSITE DISPOSAL _____
- F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES  NO _____  
If yes, method of treatment: _____
- G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES  NO _____

NO LONGER IN USE

2

A. CHEMICAL NAME: _____ B. COMMON/TRADE NAME: ^{QUATERNARY} AMMONIUM CHLORIDE  
C. METHOD OF STORAGE: UNDERGROUND TANK _____ ABOVE GROUND TANK _____  
BARRELS _____ OTHER(specify) 2 GALLON PAILS  
D. QUANTITY STORED: 20 GALLON MAX.  
E. WASTE DISPOSAL METHOD: SEWERED _____ HAULED  ONSITE DISPOSAL _____  
F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES  NO _____  
If yes, method of treatment: _____  
G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES  NO _____  
IN CURRENT USE

A. CHEMICAL NAME: _____ B. COMMON/TRADE NAME: COOL-SAVER  
C. METHOD OF STORAGE: UNDERGROUND TANK _____ ABOVE GROUND TANK _____  
BARRELS _____ OTHER(specify) 2 GALLON PAILS  
D. QUANTITY STORED: 10 GALLON MAX.  
E. WASTE DISPOSAL METHOD: SEWERED _____ HAULED  ONSITE DISPOSAL _____  
F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES  NO _____  
If yes, method of treatment: _____  
G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES  NO _____  
IN CURRENT USE

A. CHEMICAL NAME: _____ B. COMMON/TRADE NAME: LONG LIFE HD 91  
C. METHOD OF STORAGE: UNDERGROUND TANK _____ ABOVE GROUND TANK _____  
BARRELS _____ OTHER(specify) ~~20~~ 2 GALLON PAILS  
D. QUANTITY STORED: 20 GALLON MAX  
E. WASTE DISPOSAL METHOD: SEWERED _____ HAULED  ONSITE DISPOSAL _____  
F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES  NO _____  
If yes, method of treatment: _____  
G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES  NO _____

NO LONGER IN USE

2

A. CHEMICAL NAME: PETROLEUM HYDROCARBON B. COMMON/TRADE NAME: TRUE BLUE  
C. METHOD OF STORAGE: UNDERGROUND TANK _____ ABOVE GROUND TANK _____  
BARRELS _____ OTHER(specify) 7 GALLON PAILS  
D. QUANTITY STORED: 14 GALLONS  
E. WASTE DISPOSAL METHOD: SEWERED _____ HAULED  ONSITE DISPOSAL _____  
F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES  NO _____  
If yes, method of treatment: _____  
G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES  NO _____  
IN CURRENT USE

A. CHEMICAL NAME: ALIPHATIC HYDROCARBON B. COMMON/TRADE NAME: COOLANT  
C. METHOD OF STORAGE: UNDERGROUND TANK _____ ABOVE GROUND TANK _____  
BARRELS _____ OTHER(specify) 7 GALLON PAILS  
D. QUANTITY STORED: 14 GALLONS  
E. WASTE DISPOSAL METHOD: SEWERED _____ HAULED  ONSITE DISPOSAL _____  
F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES  NO _____  
If yes, method of treatment: _____  
G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES  NO _____  
NO LONGER IN USE

A. CHEMICAL NAME: LONG LIFE 20/20 B. COMMON/TRADE NAME: AQUEOUS COOLANT  
C. METHOD OF STORAGE: UNDERGROUND TANK _____ ABOVE GROUND TANK _____  
BARRELS _____ OTHER(specify) 20 GALLON DRUMS  
D. QUANTITY STORED: 20 GALLON  
E. WASTE DISPOSAL METHOD: SEWERED _____ HAULED  ONSITE DISPOSAL _____  
F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES  NO _____  
If yes, method of treatment: _____  
G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES  NO _____

NO LONGER IN USE

2



A. CHEMICAL NAME: _____ B. COMMON/TRADE NAME: ULTRA SOLV  
C. METHOD OF STORAGE: UNDERGROUND TANK ___ ABOVE GROUND TANK ___  
BARRELS ___ OTHER(specify) 5 GALLON PAILS  
D. QUANTITY STORED: 10 GALLONS  
E. WASTE DISPOSAL METHOD: SEWERED ___ HAULED X ONSITE DISPOSAL ___  
F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES X NO ___  
If yes, method of treatment: _____  
G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES X NO ___  
NO LONGER IN USE

=====

A. CHEMICAL NAME: _____ B. COMMON/TRADE NAME: _____  
C. METHOD OF STORAGE: UNDERGROUND TANK ___ ABOVE GROUND TANK ___  
BARRELS ___ OTHER(specify) _____  
D. QUANTITY STORED: _____  
E. WASTE DISPOSAL METHOD: SEWERED ___ HAULED ___ ONSITE DISPOSAL ___  
F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES ___ NO ___  
If yes, method of treatment: _____  
G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES ___ NO ___

=====

A. CHEMICAL NAME: _____ B. COMMON/TRADE NAME: _____  
C. METHOD OF STORAGE: UNDERGROUND TANK ___ ABOVE GROUND TANK ___  
BARRELS ___ OTHER(specify) _____  
D. QUANTITY STORED: _____  
E. WASTE DISPOSAL METHOD: SEWERED ___ HAULED ___ ONSITE DISPOSAL ___  
F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES ___ NO ___  
If yes, method of treatment: _____  
G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES ___ NO ___

V. THIS QUESTIONNAIRE SHALL BE SIGNED BELOW AS FOLLOWS:

- A. In the case of corporations, by a principal executive officer at the level of vice-president or his duly authorized representative if such representative is responsible for the overall operation of the facility, or
- B. In the case of a partnership, by a general partner, or
- C. In the case of a sole proprietorship, by the proprietor, or
- D. In the case of a municipal, State, or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

This questionnaire has been completed under penalty of perjury and, to the best of my knowledge, is true and correct.

Signature: Edward Andersen III Date: 10-24-91  
Printed Name: Edward Andersen III  
Title: Vice President & Asst. Genl Mgr. Phone: 213-245-8891

Contact Name: same Phone: _____  
Title: _____

**INSPECTION CHECKLIST  
WELL INVESTIGATION PROGRAM**

**I. GENERAL INFORMATION**

Site name Mechanical Engineering CO. WIP File # 113.0149  
 Address 433 Fernando Court Site # PS  
Glendale, CA 91204 SIC Code 3591  
 Ownership Federal State Local Agcy Private P  
 Organization Corporation  
 (Corporation, Partnership, Sole Proprietor, etc.)  
 Corporate Relationship Division  
 (Parent, Subsidiary, Division, etc.)  
 Contact Bill Andersen Telephone No. (818) 241-0335  
 Other Participants (e.g., Board staff, consultants)  
J. Geroch and L. Macias  
 Number of Employees (at this location) 5  
 Length of time facility at this location 26 yrs.

	ACTIVITIES		PERMITS		PERMIT No.s
	Yes	No	Yes	No	
Generator	<u>Y</u>	<u>—</u>	<u>Y</u>	<u>—</u>	<u>CAD008477713</u>
Treatment	<u>—</u>	<u>—</u>	<u>—</u>	<u>N</u>	<u>NA</u>
Storage	<u>Y</u>	<u>—</u>	<u>—</u>	<u>N</u>	<u>NA</u>
Disposal	<u>—</u>	<u>—</u>	<u>—</u>	<u>N</u>	<u>NA</u>
Transporter	<u>—</u>	<u>—</u>	<u>—</u>	<u>N</u>	<u>NA</u>

Chemical Use Questionnaire  
 Submitted Y —  
 Returned Complete/Completed Y —  
 Copy Left For Submittal — N  
 Chemical Use Questionnaire revised/amended? — N  
 Photographs taken — Yes N No

Priority P4  
 Inspector JG/LM  
 Date 11/17/94

Senior GK  
 Review Date 12-7-94

**II. FACILITY DESCRIPTION AND LAYOUT**

	Yes	No	Yes	No
Underground Tanks (number <u>N</u> )	<u>—</u>	<u>—</u>	<u>—</u>	<u>N</u>
permits	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
tested for leaks	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
under monitoring program	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Above Ground Tanks (number <u>N</u> )	<u>—</u>	<u>—</u>	<u>—</u>	<u>N</u>
good condition	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
appearance of discharges	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

(M)aterials and (W)aste Storage: Y  
 indoors Y covered Y concrete Y  
 outdoors — uncovered — asphalt —  
 locked Y curbed/bermed — soil —  
 containers sealed Y other: NA  
 size, number, and condition of containers 2-55  
gallons containers in good condition.

Does spill control appear adequate? No.

For how long is waste stored? Approximately 6 months.  
 (is it exceeding holding times?) NA Yes — No — Not labeled

How are chemicals/materials managed?  
 Are chem/mat. rotated on a Y — Yes No  
 first in/first out basis? Y —  
 MSDSs available for all chemicals Y —  
 Emergency/spill response equip. available? Y —  
 Are incompatibles stored together? — N  
 Are obsolete chemicals being stored — N  
 If so, what chemicals and how much?

**III. PROCESS, HANDLING, DISPOSAL** Yes No  
 Potential for Leaks, Spills, or Discharges Y —  
 Describe volumes, construction materials,  
 and substances handled. US 7 (solvent) 20-40 gallons.  
Furnishing compound ALMCO 2320 10 gallons. MICRON 55  
gallons. Quaternary ammonium chloride 20 gallons max. Cool  
saver 10 gallons. True blue 14 gallons.

Clarifier(s) (number 1) Yes No  
Y —

Sump(s) (number 1) Y      
 Underground piping (Sanitary Sewer) Y    

## IV. EVIDENCE OF WASTE DISCHARGE

Overall Facility Impressions Yes No  
 Clean     N  
 Good Housekeeping Practices     N  
 Evidence of Discharge (describe) Y      
 (e.g., discolored soil, oily stains) Discolored  
concrete in the oils/solvents/cleaners storage and  
disposal area (indoors) and oily stains by the location  
of the air compressor (outdoors)

Migration Pathways  
 (e.g., corroded or cracked pavement/conc?)     N  
 If "yes," describe _____  
 Describe any visual evidence of release to soil: _____

Any previous soil or site investigation(s)?     N  
 Describe _____

Does Generator appear to be familiar with Federal and State  
 regulations on hazardous waste? Y Yes No

V. COMMENTS (Make sure questionnaires are complete, attach  
 another page if necessary for your comments)

Mechanical Engineering Co. is a small machine shop manufacturing  
 custom parts. The chlorinated solvent 1,1,1-TCA was used for  
 degreasing for several years but was recently replaced with  
 another nonchlorinated type. One three stage clarifier is present  
 on-site with one sump located at the deburring area. No  
 underground or above-ground storage tanks are present.

Require: 1) Soil gas investigation required at the waste  
 solvent storage area and air compressor area.

Priority P4 Senior GK  
 Inspector JG/LM Review Date _____  
 Date 11/17/94



December 1, 1994

Mr. Bill Andersen  
 Mechanical Engineering CO.  
 433 Fernando Court  
 Glendale, CA 91204

WELL INVESTIGATION PROGRAM—INITIAL SITE INSPECTION, MECHANICAL  
 ENGINEERING CO., 433 FERNANDO COURT, GLENDALE, CALIFORNIA (FILE NO.  
 113.0149)

On November 17, 1994, your facility was inspected by members of  
 this Regional Board's staff. The inspection focused on past and  
 present methods for handling chemicals and wastes at your facility.

During the inspection, liquid and stains were seen beneath the  
 blue, steel parts washer sink and 55-gallon steel drum reservoir,  
 now used for waste solvent storage. You stated that the solvent  
 parts cleaner was also stored outside where the air compressor is  
 now located, but was moved inside after the parts cleaner began  
 leaking solvent.

According to you and information contained in the material safety  
 data sheets (MSDS), the chlorinated solvent 1,1,1-Trichloroethane  
 was previously stored and used on-site for degreasing. The purpose  
 of this agency's Well Investigation Program (WIP) is to determine  
 sources of chlorinated solvents contributing to ground water  
 pollution found in nearby drinking water wells. The program is  
 comprehensive, since even small discharges may have significant  
 additive effects on the quality of ground water in the area.

Based on the results of the site inspection, you are required to  
 conduct a soil gas investigation to determine if past or present  
 operations have contributed to ground water pollution. You are  
 required to submit a work plan to conduct a soil gas investigation  
 that meets all requirements contained in the enclosed "Requirements  
 of Active Soil Gas Investigation."

At a minimum, you are required to collect soil gas samples from the  
 following three locations at 5 and 15 feet below ground surface:

1. Beneath the blue, 55-gallon steel reservoir drum of the  
 solvent parts washer currently used for waste solvent  
 storage, and
2. Adjacent the air compressor located outside the main  
 building.

Mr. Anderson  
Page 2

3. At the influent and effluent sides of the industrial waste clarifier located at the deburring area.

Enclosed is partial list of soil gas consultants developed to assist you in selecting a consultant, if necessary.

Three copies of the work plan for conducting the soil gas investigation are due by January 31, 1995.

If you have any questions, please contact Mr. John Geroch at (213) 266-7577.



GREGG KWEY  
Senior Water Resources  
Control Engineer

enclosures

cc: Michael Osinski, U.S. EPA—Region IX



F 950114  
113.0144  
JK

## SUBSURFACE SOIL-GAS INVESTIGATION REPORT

MECHANICAL ENGINEERING CO.  
433 FERNANDO CT.  
GLENDALE CALIFORNIA

APRIL, 1995

### PREPARED FOR:

Mr. Bill Anderson  
Mechanical Engineering Co.  
433 Fernando Court  
Glendale, California

TRG Number 4633-GLEN

## SUBSURFACE SOIL-GAS INVESTIGATION REPORT

MECHANICAL ENGINEERING CO.  
433 FERNANDO CT.  
GLENDALE CALIFORNIA

### 1.0 EXECUTIVE SUMMARY

This report presents soil-gas investigation results for work conducted on April 18, 1995. The soil-gas investigation included sampling and analyzing six soil-gas samples. Samples at four locations were collected at depths including five, seven and fifteen feet below the ground surface (bgs). During the soil-gas investigation, three halogenated compounds (1,1,1-trichloroethane (1,1,1-TCA), tetrachloroethene (PCE) and 1,1-dichloroethene (DCE)) were identified above the reportable detection limits. The maximum concentrations found during the 6-point survey were 327 µg/L, 104 µg/L, and 22.1 µg/L for 1,1,1-TCA, PCE and DCE, respectively. The primary contaminant observed was 1,1,1-TCA, with concentrations ranging from 67.8 to 327 µg/L in the six samples collected. Detected concentrations of PCE and DCE ranged from 9.3 µg/L to 104 µg/L and from 3.7 µg/L to 22.1 µg/L, respectively. The highest concentrations detected for 1,1,1-TCA and PCE were from sample location P1 at five ft bgs. Based on these low results, we recommend no further action be taken.

### 2.0 INTRODUCTION

This report summarizes the soil-gas investigation conducted by The Reynolds Group (TRG) at 433 Fernando Court, Glendale, California (the Site). The Site is located on the north side of Fernando Road between Gardena Avenue and Fernando Road in the City of Glendale, County of Los Angeles, State of California (Figure 1). The site includes one commercial building used as a parts manufacturer. The work was conducted on behalf of Mr. Bill Anderson (the current tenant) and in accordance with the TRG work plan proposal dated March 3, 1995. Sample collection and analysis were conducted by Optimal Technology Inc. of Summerland, California.

### 3.0 OBJECTIVE

The objective of the soil-gas investigation was to screen the near surface soils at the Site for possible volatile organic compounds (VOCs).

### 4.0 SCOPE OF WORK

To fulfill the objectives of the subsurface investigation, the following scope of work was conducted by TRG as approved by the Regional Water Quality Control Board:

- Task 1: Conducted a multiple depth soil-gas investigation. Six soil-gas samples were collected from four locations. At two of the four locations, samples were collected at five and fifteen feet bgs.
- Task 2: Completed laboratory analyses of collected soil vapor samples in accordance with LA-RWQCB guidelines ("Workplan Requirements for Active Soil Gas Investigation, Well Investigation Program": March, 1994).

- Task 3: Prepared this report documenting the methodology, findings, field and analytical test results, and conclusions of this investigation.

A detailed description of the work performed during the investigation is presented in the following sections of this report.

### 5.0 FIELD INVESTIGATION

TRG performed the soil-gas survey field investigation on April 18, 1995. The investigation included the three locations in the building and one location in the parking lot area of the Site (Figure 2). The sampling and analytical testing were performed by Optimal Technology Inc. of Summerland, California. For the field investigation, all work was conducted according to the standards of the California Regional Water Quality Control Board, Los Angeles Section as outlined in "Workplan Requirements for Active Soil Gas Investigation, Well Investigation Program": dated March, 1994.

Prior to the execution of the on-Site work, TRG notified Dig Alert (an underground services alert system). Locations of underground utility lines were marked both inside and outside of the building.

#### 5.1 Preliminary Investigation

A three-point purge vs. concentration study was performed at the first sampling location to determine the optimal purge volume at this Site. Purge volumes tested were one, two, and three probe volumes. Results of the purge test indicated there was no significant change in concentration vs. purge volume. Based on those results, approximately two purge volumes were used at the sampling locations for this investigation. Subsurface soil conditions at this site consisted of a high permeability silty sand. Vacuum and air flow at this site were 0 inches water at 2.0 liters per minute (L/min.) flow. Soil conditions were consistent in all the samples collected at the site.

#### 5.2 Soil-Gas Survey

TRG collected six soil-gas samples from four locations during the course of the soil-gas investigation (Sample locations P1 through P4, Figure 2). Two soil-gas samples were extracted from location P1 at approximately five and 15 feet below the ground surface (ft bgs), located approximately three feet west of the air compressor building and approximately 12 ft south of the manufacturing building. Two soil-gas samples were also extracted from sample location P2 at five and 15 ft bgs. P2 was located inside the manufacturing building, adjacent to the solvent recycling area. Sample locations P3 and P4 were located adjacent to the influent and effluent clarifiers, respectively. Samples were collected at seven ft bgs at locations P3 and P4, approximately two feet beneath the bottom of the clarifiers.

#### 5.3 Soil Vapor Acquisition and Handling

At each sample location, probes were advanced to designated depths, soil vapor samples were extracted, and samples were immediately analyzed by the on-site laboratory. Sampling was performed by advancing 1/2 inch diameter galvanized hollow steel gas probes with an electric hammer. An electric rotary hammer drill was used to drill a one inch diameter hole through the overlying concrete to allow probe placement.

At each sampling location, an electric vacuum pump (set to draw 2 liters/minute of soil vapors at a maximum vacuum of 100 inches of water) was attached to the probe and purged vapors for 45 seconds (approximately 1500 milliliters) at an average vacuum of 10 inches of water, extracting approximately two purge volumes of air prior to sample collection.

Samples were obtained in Hamilton gas-tight syringes by puncturing silicone tubing that connected the sampling probe and the vacuum pump. New silicone tubing was used at each sampling point to prevent cross contamination. After collection, samples were immediately injected into the gas chromatograph. New sampling probes were used after each sample collection, eliminating decontamination procedures between samples. In addition, equipment blanks were analyzed between each sample by passing ambient air through the sampling apparatus.

All analyses were performed on a laboratory grade Hewlett Packard model 5890 Series II gas chromatograph (GC) equipped with a Photo Ionization Detector (PID) and an Electron Capture Detector (ECD). Restec wide bore capillary columns, using hydrogen as the carrier gas, were used to perform all analysis. All data generated by the GC was collected on an IBM compatible personal computer and a specially designed software package converted GC data to concentrations expressed as micrograms/liter ( $\mu\text{g/L}$ ).

#### 5.4 Quality Assurance/Quality Control (QA/QC) Procedures

##### Calibrations

On April 13, 1995, an initial 3-point calibration was performed prior to sampling by preparing a calibration solution from a pre-mixed standard supplied by Supelco, Inc. The standard solution contained 19 common halogenated solvents and 6 aromatic hydrocarbons. The individual compound concentrations in the standard ranged from 0.025 nanograms per micrograms ( $\text{ng}/\mu\text{g}$ ) to 0.25  $\text{ng}/\mu\text{g}$ .

The initial three point calibration consisted of 20, 50, and 100 microliter ( $\mu\text{l}$ ) injections of the calibration solution. An average response factor (RF) was calculated for each analyte and used to determine concentrations. In addition, the percent relative standard deviation (%RSD) between the three calibration levels was determined to assure the instrument was operating properly. The %RSD must be less than 15% or an additional calibration is performed.

Method detection limits were calculated to be between 0.1  $\mu\text{g/L}$  and 1.0  $\mu\text{g/L}$  for the halogenated solvents and 0.5  $\mu\text{g/L}$  for the aromatic hydrocarbons. Actual detection limits varied between 5.0 and 50.0  $\mu\text{g/L}$  due to the dilution's required on some samples.

TABLE 1

Dichlorofluoromethane	Carbon Tetrachloride	Benzene
Trichlorofluoromethane	1,2-Dichloroethane	Toluene
1,1-Dichloroethene	Trichloroethene	Freon 113
Methylene Chloride	1,1,2-Trichloroethane	Ethylbenzene
trans-1,2-Dichloroethene	Tetrachloroethene	m,p-Xylene
1,1-Dichloroethane	Chloroform	o-Xylene
cis-1,2-Dichloroethene	1,1,1,2-Tetrachloroethane	Vinyl Chloride
1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	Freon 113

##### Continuing Calibrations

A one-point continuing calibration (mid-point) check using the 25 compounds listed in Table 1 was run after the three-point calibration on April 18, 1995. This sample was prepared independently of the standard used in the three-point calibration. This assured that the instrument response was consistent throughout the day. This continuing calibrations must agree within 15% of the most recent three-point calibration or an additional three-point calibration would be performed and the new calibration factor used for the subsequent samples.

The last sample of the day was also a Laboratory Check Sample containing the 15 compounds listed in Table 2. This sample was run to assure that the instrument response as well as the three-point calibration performed on April 13, 1995 had not changed.

TABLE 2

Methylene Chloride	Trichloroethene
1,2-Dichloroethane	1,1,2-Trichloroethane
1,1-Dichloroethane	Tetrachloroethene
trans-1,2-Dichloroethene	Benzene
1,1-Dichloroethane	Toluene
cis-1,2-Dichloroethene	Ethylbenzene
1,1,1-Trichloroethane	m,o-Xylene

##### Sample Replicates

A duplicate analysis was run when concentrations exceeded the calibration range of the instrument/detector being used. The duplicate sample was dilute using a smaller injection volume to assure that the instrument response was within 50% of the calibrated range. In addition, a duplicate analysis was run a minimum of once each day to evaluate the reproducibility of both the sampling system and the instrument. If the difference between samples collected varies more than 20%, the entire system was evaluated and the cause of the inconsistency was determined and corrected.

##### Equipment Blanks

Equipment blanks were run at the beginning of each work day, after calibrations, and at a minimum of once every five samples analyzed. New vapor probes were used following each sample with positive results or when probes were damaged during installation. The blanks were collected by hooking up the entire sampling system above ground and collecting an ambient air sample. These blanks checked the probes, fittings, septum, syringe, GC column, GC detector and the ambient air. If contamination was found to exist, the procedure was repeated until the source was determined and corrected. Blank results are given along with the sample results (Appendix B).

#### 6.0 RESULTS AND FINDINGS

During the soil-gas investigation, three halogenated compounds (1,1,1-trichloroethane (1,1,1-TCA), tetrachloroethene (PCE) and 1,1-dichloroethene (DCE)) were identified at the Site above the reportable detection limits. The maximum concentrations found during the

6-point survey were 327 µg/L, 104 µg/L, and 22.1 µg/L for 1,1,1-TCA, PCE and DCE, respectively (see Table 3). The primary contaminant observed was 1,1,1-TCA, with concentrations ranging from 67.8 to 327 µg/L in the six samples collected. Detected concentrations of PCE and DCE ranged from 9.3 µg/L to 104 µg/L and from 3.7 µg/L to 22.1 µg/L, respectively. The highest concentrations detected for 1,1,1-TCA and PCE were from sample location P1 at five ft bgs. Refer to Figure 2 for sampling locations.

**TABLE 3**  
**SUMMARY OF LABORATORY ANALYSES**  
(Concentrations in micrograms per liter, µg/L)  
(Detected Constituents Only)

SAMPLE ID	TCA	PCE	DCE
P1-5 FT	327	104	14.1
P1-15FT	326	56.3	22.1
P2-5 FT	151	17.3	7.0
P2-15 FT	188	14.8	11.0
P3-7 FT	72.1	9.3	3.8
P4-7 FT	67.8	10.1	3.7
<b>MCL LIMITS</b>	<b>200.0</b>	<b>5.0</b>	<b>5.0</b>

PCE      tetrachloroethene  
TCE      trichloroethene  
TCA      1,1,1-trichloroethane  
MCL      Maximum Contaminant Level Proposed by EPA Drinking Water Standards

During the course of the field investigation, TRG reviewed the QA/QC data performed by Optimal Technology to assess the impact of sampling equipment, laboratory equipment and laboratory procedures on analytical results. The review consisted of identifying analytic concentrations in sampling or test equipment, duplicate sample variances, and calibration shifts that would affect the analytical results. No results were outside of the QA/QC acceptable limits. A complete table of analytical results, equipment blanks, duplicate results and calibration check samples are included with this report.


#### 7.0 CONCLUSIONS

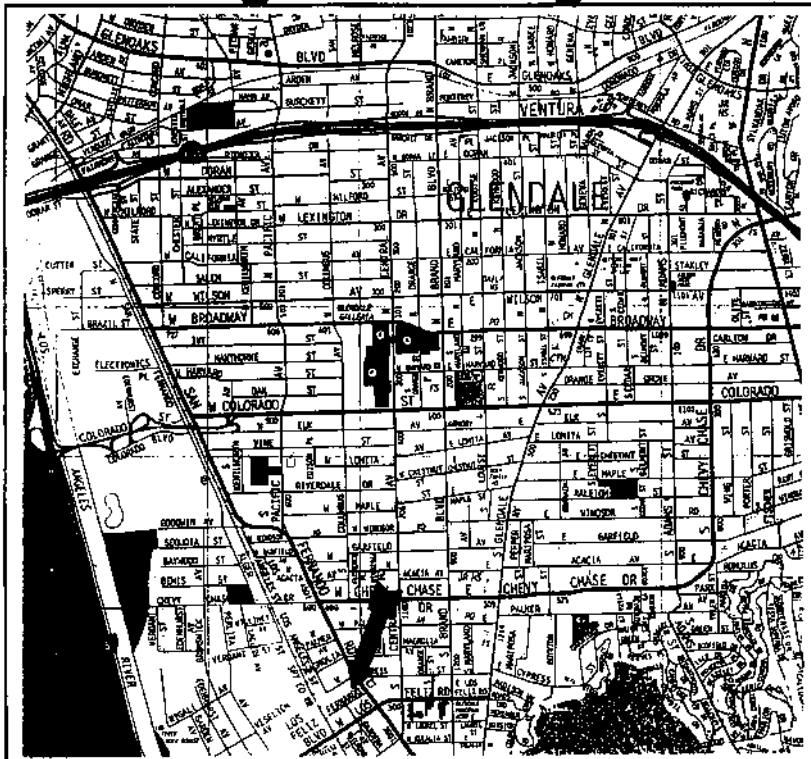
Based on soil-gas investigations conducted on April 18, 1995, it appears that elevated concentrations of 1,1,1-TCA and PCE vapors are present in the near surface soils beneath the Site. The highest concentrations were observed near the air compressor building, adjacent south of the manufacturing building. Based on these results we recommend no further action with respect to this Site.

#### 8.0 LIMITATIONS

The findings and conclusions presented above are based upon the agreed upon scope of work outlined in the above report. Soil vapor testing is only a subsurface screening tool and does not represent actual contaminant concentrations in either the soil and/or ground water. Consultant makes no warranties or guarantees as to the accuracy or completeness of information obtained from information provided or compiled by others. It is possible that information which was not found exists beyond the scope of this investigation. Additional information which was not found or available to Consultant at the time of writing of this report, may result in a modification of the findings and conclusions presented. This report is not a legal opinion.

  
Douglas S. Hodgc, Ph.D.  
Project Manager

 (TS-1)  
F. Edward Reynolds, Jr., P.E.  
California RCE #38677

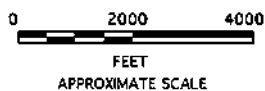


ADAPTED FROM 1993 LOS ANGELES/ORANGE COUNTY THOMAS BROTHERS GUIDE, MAP PAGE 739.

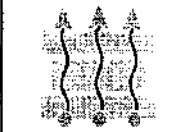


CALIFORNIA

• SITE

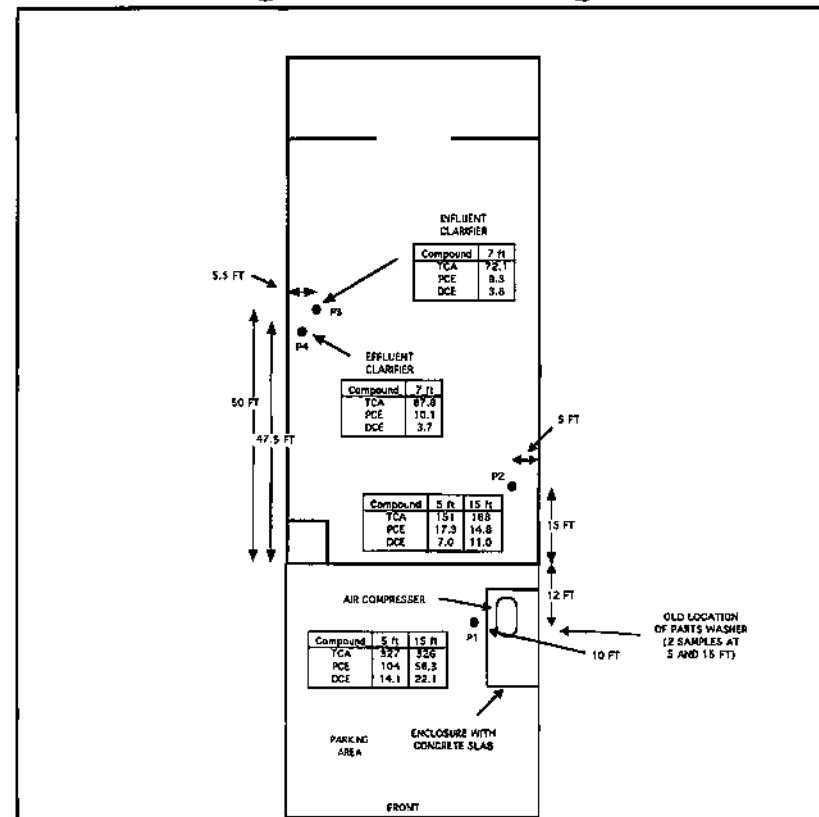


FEET  
APPROXIMATE SCALE



THE REYNOLDS GROUP

**FIGURE 1**  
**SITE LOCATION MAP**  
MECHANICAL ENGINEERING CO.  
433 FERNANDO CT.  
GLENDALE CALIFORNIA  
MARCH 1995



**LEGEND**

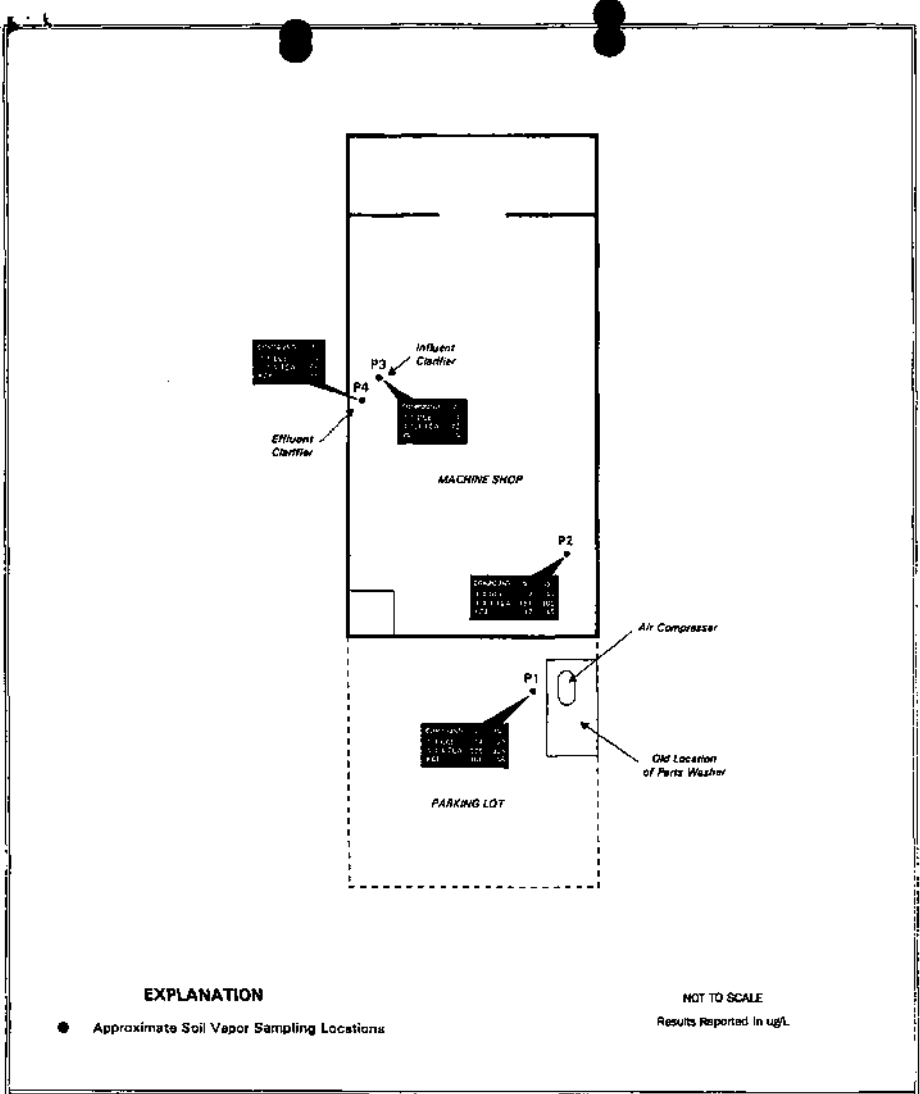
- SOIL GAS LOCATION
- * All Concentrations in ug/L



THE REYNOLDS GROUP

**FIGURE 2**  
**PLOT PLAN**  
MECHANICAL ENGINEERING CO.  
433 FERNANDO CT.  
GLENDALE CALIFORNIA  
APRIL 1995





**EXPLANATION**

● Approximate Soil Vapor Sampling Locations

NOT TO SCALE  
Results Reported in ug/L

<b>Optimal Technology Inc.</b> PO Box 547 Summerland, CA Tel: (805) 969-2444 • Fax: (805) 969-6597	DATE: April 18, 1995	PROJECT NO: OTI-041095	APPROVED BY: TJJ	<b>FIGURE</b>  <b>1</b>
	COMPANY: REYNOLDS GROUP	TITLE: SOIL VAPOR SAMPLING LOCATIONS MECHANICAL ENGINEERING CO.		

**SOIL GAS SAMPLE RESULTS**

SITE NAME: Mechanical Engineering, Glendale, CA  
 LAB NAME: Optimal Technology Inc.  
 ANALYST: Timothy L. Theisen  
 COLLECTOR: Scott Manardy  
 DATE: April 18, 1995  
 INSTRUMENT ID: HP5890.2  
 NORMAL INJECTION VOLUME: ECD = 600 ul / PID = 500 ul  
 PAGE: 1 of 2

COMPOUND	DET	BLANK-1		P-1-A		P-1-A		P-1-A		P-1-A		P-1-B		P-2-A	
		AREA	CONC	AREA	CONC	AREA	CONC	AREA	CONC	AREA	CONC	AREA	CONC	AREA	CONC
Dichlorodibromomethane	ECD	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND
Chloroethane	ECD	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND
Trichlorofluoromethane	ECD	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND
Trichlorotrifluoroethane	ECD	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND
Methylene Chloride	ECD	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND
1,1-Dichloroethane	ECD	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND
Chloroform	ECD	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND
1,1,1-Trichloroethane	ECD	0	ND	20195500	327	2040388	339	597151	325	1003163	328	464319	161	ND	
Carbon Tetrachloride	ECD	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND
1,2-Dichloroethane	ECD	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND
Toluene	ECD	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND
1,1,2-Trichloroethane	ECD	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND
Tetrachloroethane	ECD	0	ND	12854900	104	1237770	106	624158	101	347168	86.3	108506	ND		
1,1,1,2-Tetrachloroethane	ECD	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND
1,1,2,2-Tetrachloroethane	ECD	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND
Methyl Chloride	PID	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND
1,1-Dichloroethane	PID	0	ND	84549	14.1	85649	14.2	84409	14.0	133123	22.1	42052	7.0		
trans-1,2-Dichloroethane	PID	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND
cis-1,2-Dichloroethane	PID	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND
Benzene	PID	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND
Toluene	PID	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND
Ethylbenzene	PID	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND
m/p/o-Xylene	PID	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND

Undetected Peaks (ECD): 0  
 Undetected Peaks (PID): 0  
 All results are reported in ug/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Mechanical Engineering - Glendale, CA  
 ANALYST: Timothy L. Thiesen  
 NORMAL INJECTION VOLUME: ECD = 500 ul / PID = 500 ul

LAB NAME: Optimal Technology Inc.  
 COLLECTOR: Scott Mainardy

DATE: April 18, 1995  
 INSTRUMENT ID: HP6890-2  
 PAGE: 2 of 2

SAMPLE ID:	P-2-B		P-3		P-4		P-4-DUP		
	AREA	CONC	AREA	CONC	AREA	CONC	AREA	CONC	
Sampling Depth (ft):	15.0	ND	7.0	ND	7.0	ND	7.0	ND	
Sample Volume (ml):	2000	ND	1000	ND	1000	ND	1000	ND	
Vacuum (lb. of water):	0	ND	0	ND	0	ND	0	ND	
Sampling Time:	N/A	ND	N/A	ND	N/A	ND	N/A	ND	
Injection Time:	N/A	ND	N/A	ND	N/A	ND	N/A	ND	
Injection Volume:	50005	ND	50005	ND	50005	ND	50005	ND	
Injection Factor ECD:	200	ND	200	ND	200	ND	200	ND	
Injection Factor PID:	2	ND	2	ND	2	ND	2	ND	
COMPOUND	DET	AREA	CONC	AREA	CONC	AREA	CONC	AREA	CONC
Dichlorodifluoromethane	ECD	0	ND	0	ND	0	ND	0	ND
Chloroethane	ECD	0	ND	0	ND	0	ND	0	ND
Trichloroethene	ECD	0	ND	0	ND	0	ND	0	ND
Trichlorofluoromethane	ECD	0	ND	0	ND	0	ND	0	ND
Methylene Chloride	ECD	0	ND	0	ND	0	ND	0	ND
1,1-Dichloroethane	ECD	0	ND	0	ND	0	ND	0	ND
Chloroform	ECD	0	ND	0	ND	0	ND	0	ND
1,1,1-Trichloroethane	ECD	860558	189	225333	72.1	203714	87.2	874947	72.8
Carbon Tetrachloride	ECD	0	ND	0	ND	0	ND	0	ND
1,2-Dichloroethane	ECD	0	ND	0	ND	0	ND	0	ND
Trichloroethane	ECD	0	ND	0	ND	0	ND	0	ND
1,1,2-Trichloroethane	ECD	0	ND	0	ND	0	ND	0	ND
Tetrachloroethene	ECD	91488	14.3	37435	3.3	82388	10.1	262232	10.8
1,1,1,2-Tetrachloroethane	ECD	0	ND	0	ND	0	ND	0	ND
1,1,1,2,2-Tetrachloroethane	ECD	0	ND	0	ND	0	ND	0	ND
Vinyl Chloride	PID	0	ND	0	ND	0	ND	0	ND
1,1-Dichloroethane	PID	69413	11.0	27288	3.8	22714	3.7	24018	3.8
trans-1,2-Dichloroethane	PID	0	ND	0	ND	0	ND	0	ND
cis-1,2-Dichloroethane	PID	0	ND	0	ND	0	ND	0	ND
Benzene	PID	0	ND	0	ND	0	ND	0	ND
Toluene	PID	0	ND	0	ND	0	ND	0	ND
Ethylbenzene	PID	0	ND	0	ND	0	ND	0	ND
m/p/o-Xylene	PID	0	ND	0	ND	0	ND	0	ND

Unidentified Peaks (ECD):  
 Unidentified Peaks (PID):  
 COMMENTS:

All results are reported in ug/L.

STATE OF CALIFORNIA - CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY  
**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD**  
 LOS ANGELES REGION  
 101 CENTRE PLAZA DRIVE  
 MONTEREY PARK, CA 91764-2168  
 (714) 266-7500  
 FAX: (714) 266-7300



May 11, 1995

Mr. Bill Anderson  
 Mechanical Engineering  
 433 Fernando Court  
 Glendale, CA 91204

WELL INVESTIGATION PROGRAM—MECHANICAL ENGINEERING, 433 FERNANDO COURT, GLENDALE, CALIFORNIA (FILE NO. 113. 0149)

We have received the "Subsurface Soil Gas Investigation Report" dated April 1995, submitted by your consultant, The Reynolds Group. The analytical results for the soil gas samples show the chlorinated solvents 1,1,1-TCA, PCE, and 1,1-DCE were found at each of the four sampling points with the highest concentrations of the compounds occurring at sampling points P1 and P2. Soil gas samples from locations P1 and P2 were collected at 5 and 15 feet below grade, however, the concentrations remained relatively constant and did not decrease with depth.

Therefore, to determine if previous operations have contaminated the ground water beneath the facility, you are required to determine the lateral and vertical extent of the solvent plume.

You are required to submit a work plan for a supplemental soil gas investigation that meets all the requirements outlined in our previous letter dated December 1, 1994. Please submit three copies of the work plan by June 30, 1995.

Please contact Mr. John Geroch at (213) 266-7577 if you have any questions.

*Gregg Kwey*  
 GREGG KWEY  
 Senior Water Resources  
 Control Engineer

cc: Michael Osinski, U.S. EPA Region IX  
 Douglas Hodge, The Reynolds Group

On Site Soil • Soil Vapor • GH₂O  
Sampling and GCMS Analysis



October 15, 1995

Bill Anderson  
Mechanical Engineering  
433 Fernando Court  
Glendale, CA

Dear Bill,

Enclosed please find the report on the soil vapor investigation performed on September 25 and 28, 1995 at your property. The report consists of the following parts:

- i. Technical Approach with Results and Discussion.
- ii. A map of your facility showing the location of the soil vapor points.
- iii. A spreadsheet of the chemicals found in the soil vapor.
- iv. Concentration contour maps of the predominant species in the subsurface.
- v. A QA/QC section in LAWQCB format.
- vi. A raw data section in LAWQCB format.

In addition, chains of custody and chromatograms will be kept archived and are available upon request, as are the individual samples in electronic format.

If you have any questions or concerns now or in the future, please do not hesitate to call.

Sincerely,

Raphe Pavlick  
Director

cc: John Geroch LAWQCB  
B.J. Atkins

RECEIVED  
OCT 17 1995  
SPECTRUM  
LABORATORY

400 So. Barrington • Suite #3 • P.O. Box 49931 • Los Angeles, CA 90049  
Phone • (310) 440 - 5077 • Fax (310) 471 - 6879



## RESULTS AND DISCUSSION

### Extent of Subsurface Contamination

The only species in the subsurface with concentrations above 100µg/l is 1,1,1-Trichloroethane (TCA). Lesser amounts of 1,1-Dichloroethene (DCE) and Tetrachloroethylene (PCE) and negligible amounts of 1,1-Dichloroethane (DCA) were discovered. None of the DCE or PCE concentrations exceeded 100µg/l. The vertical profiles show a decreasing concentration with depth. Actual TCA concentrations dropped to near or below 100µg/l at a depth of 50 feet, the limit of sampling depth in this lithology.

The concentration contours at a depth of 15 to 20 feet show that the TCA plume may be centered off-site to the east. Carbon dioxide, a very sensitive indicator of hydrocarbons, including oil and grease, is found slightly elevated near one of the work areas inside the building but not at levels that are unusual in developed areas. This is indicative of aerobic biodegradation of contaminants by the naturally occurring microorganisms in the soil.

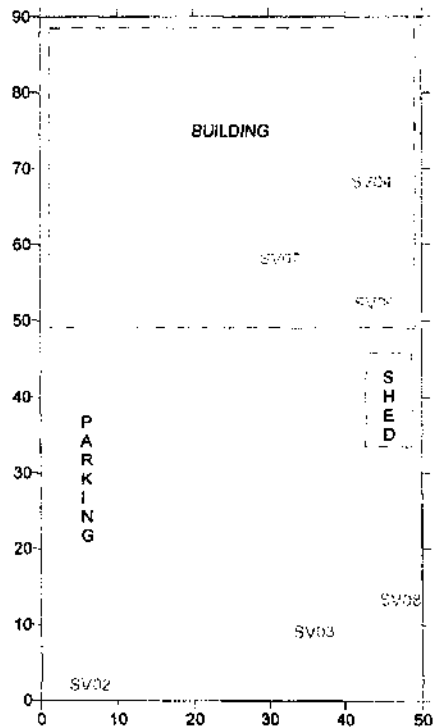
### Recommendations

The absence of any volatile hydrocarbons species, including BTEX and methane, in the soil vapor when combined with analytical results at or near 100µg/l of chlorinated hydrocarbons and decreases of concentrations with depth would suggest a low or zero priority in terms of remedial action. The possibility of an off-site source has definitely not been eliminated.

### QA/QC

All compounds from the initial calibration were within the guidelines of DTSC, LAWQCB and HGS. The LCS run on the day of the initial calibration as well as those run on the days of sampling also met the requirements as did the daily check standard. Surrogate recoveries were all within the 90% requirement, and all samples were run within a four hour holding time. Pentane was not detected in any of the samples, proving the absence of ambient intrusion.

SOIL VAPOR PROBE LOCATIONS



433 Fernando Court

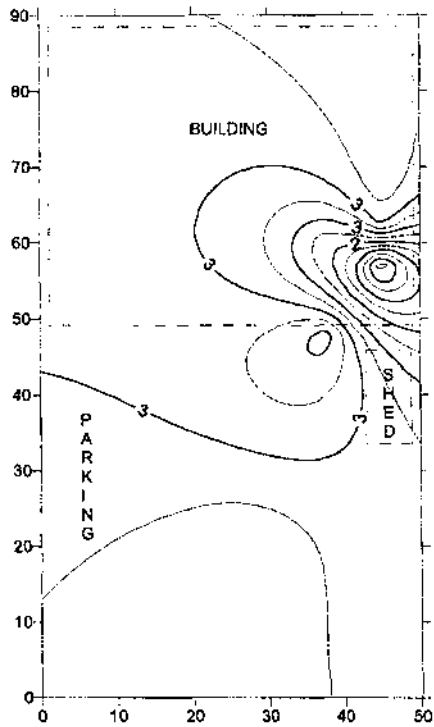
15-20 FEE3

SOIL VAPOR RESULTS

LOCATION	1,1-DCE ug/l	1,1,1-TCA ug/l	PCE ug/l	1,1-DCA ug/l	ID	TCE ug/l	CO2 %
SV01-20		5			1054		
*	8	70	3		1055		
*	18	173	10		1056		
*	20	192	13	1	1057		
*	23	198	15	1	1058		3.7
SV01-30	34	250	9	1	1081		3.5
SV01-40	49	146	7	0.5	1082		5.3
SV01-50	39	59	1.6		1091		4.8
SV02-15	10	93	8		1059		
SV02-15	9	83	9		1082		
SV03-15	29	263	52	2	1061		
SV04-15	10	157	12		1083		3.5
SV05-20	14	189	11		1084		3.2
SV05-20	15	187	12		1087		
SV06-27	12	164	10		1086		3.2
SV06-15	10	154	16		1085		1.2
SV07-15	10	155	17		1088		2.5
SV08-15	26	269	42	1.6	1089		3.2
SV09-15	32	280	35	1.5	1090		2.8
SV09-30	66	237	6.5	1.6	1093		4.2
SV09-50	45	112	1.8		1094		5.2
SV10-4.5	1.3	21	3.7		1092	5.4	2.9

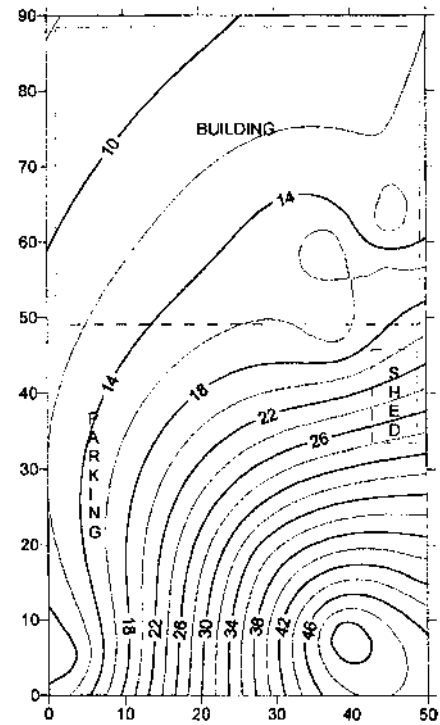
Mechanical Engineering

CARBON DIOXIDE (5) at 15-20'



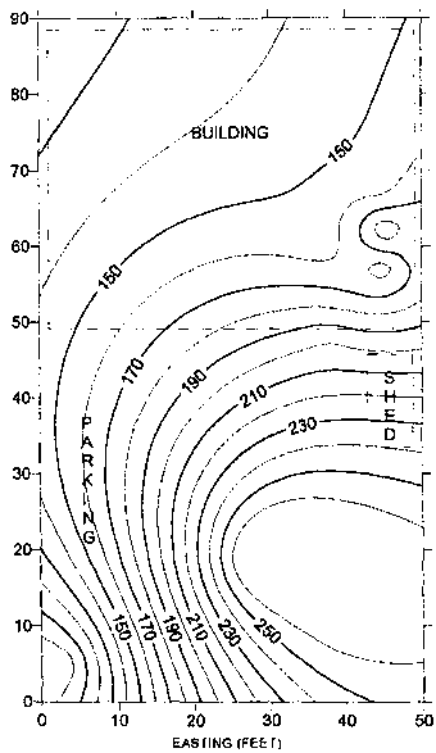
433 Fernando Court

PCE(ug/l) at 15-20'



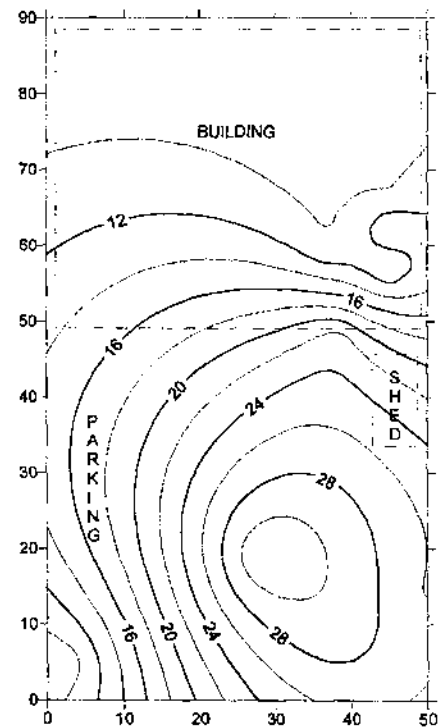
433 Fernando Court

1,1,1-TCA (ug/l) at 15-20'



433 Fernando Court

1,1-DCE (ug/l) at 15-20'



433 Fernando Court

**SOIL GAS SAMPLE RESULTS**

SITE NAME: Mechanical engineering      LAB NAME: HydroGeoSpectrum (HGS)      DATE: 28Sept95  
 ANALYST: Raphe Pavlick      COLLECTOR: Tony Garza      INSTRUMENT ID: 2415A8201

NORMAL INJECTION VOLUME: 1 ml

Sample ID:	SV09	SV09	SV09
	VOA8257-01090	VOA8260-01093	VOA8261-01094
Sampling Depth (ft)	15	30	50
Purge Volume (ml)	1950	2700	3600
Vacuum	NO	NO	NO
Sampling Time	1555	1939	1944
Injection Time	1641	2002	2023
Injection Volume	1ml	1ml	1ml
Dilution Factor	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene(DCE)	MS	4.11	45186	31.61	4.16	94816	66.32	4.15	63936	44.72
1,1-Dichloroethane(DCA)	MS	4.71	4583	1.53	4.73	4984	1.66			
1,1,1-Trichloroethane (TCA)	MS	6.16	708987	280.40	6.17	602382	237.41	6.17	282677	111.80
Trichloroethene(TCE)	MS									
Tetrachloroethene(PCE)	MS	9.74	73034	34.70	9.76	13670	6.49	9.74	3751	1.78
D-Chloroform (Surrogate)	MS	5.20	120219	103%	5.23	119494	103%	5.22	126067	109%
D-Benzene(Surrogate)	MS	7.49	238863	101%	7.50	238292	103%	7.50	249652	106%
D-Acetone(Surrogate)	MS	3.13	147336	103%	3.18	142655	100%	3.17	146561	102%
Total Number of Peaks by GCMS:		4 + Surrogates			4 + Surrogates			3 + Surrogates		

Unidentified peaks and/or other analytical remarks:

**SOIL GAS SAMPLE RESULTS**

SITE NAME: Mechanical engineering      LAB NAME: HydroGeoSpectrum (HGS)      DATE: 28Sept95  
 ANALYST: Raphe Pavlick      COLLECTOR: Tony Garza      INSTRUMENT ID: 2415A8201

NORMAL INJECTION VOLUME: 1 ml

Sample ID:	SV04	SV06	SV07
	VOA8250-01083	VOA8252-01085	VOA8254-1088
Sampling Depth (ft)	15	15	15
Purge Volume (ml)	1950	1950	1950
Vacuum	NO	NO	NO
Sampling Time	1154	1337	1358
Injection Time	1222	1417	1458
Injection Volume	1ml	1ml	1ml
Dilution Factor	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene(DCE)	MS	4.10	14015	9.80	3.98	14893	10.42	3.96	14720	10.30
1,1-Dichloroethane(DCA)	MS									
1,1,1-Trichloroethane (TCA)	MS	6.21	396332	156.75	6.16	188872	153.80	6.09	393079	155.46
Trichloroethene(TCE)	MS									
Tetrachloroethene(PCE)	MS	9.82	25162	11.95	9.82	34470	16.38	9.73	34875	16.57
D-Chloroform (Surrogate)	MS	5.23	120738	104%	5.14	119804	103%	5.08	113050	99%
D-Benzene(Surrogate)	MS	7.55	241087	102%	7.54	232273	98%	7.46	241853	102%
D-Acetone(Surrogate)	MS	3.10	148135	103%	2.95	145423	101%	2.94	142501	99%
Total Number of Peaks by GCMS:		3 + Surrogates			3 + Surrogates			3 + Surrogates		

Unidentified peaks and/or other analytical remarks:

**SOIL GAS SAMPLE RESULTS**

SITE NAME: Mechanical engineering      LAB NAME: HydroGeoSpectrum (HGS)      DATE: 28Sept95

ANALYST: Raphe Pavlick      COLLECTOR: Tony Garza      INSTRUMENT ID: 2415A8201

NORMAL INJECTION VOLUME: 1 ml

Sample ID:	SV08	SV10
	VOA8256-01089	VOA8259-01092
Sampling Depth (ft)	15	4.5
Purge Volume (ml)	1950	1350
Vacuum	NO	NO
Sampling Time	1645	1709
Injection Time	1625	1903
Injection Volume	1ml	1ml
Dilution Factor	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene(DCE)	MS	4.12	37336	26.11	4.19	1902	1.33			
1,1-Dichloroethane(DCA)	MS	4.70	4658	1.55						
1,1,1-Trichloroethane (TCA)	MS	6.17	678984	268.53	6.17	52609	20.81			
Trichloroethene(TCE)	MS				7.35	15535	5.42			
Tetrachloroethene(PCE)	MS	9.74	88679	42.13	9.74	7696	3.66			
D-Chloroform (Surrogate)	MS	5.21	122476	100%	5.22	120037	100%			
D6-Benzene(Surrogate)	MS	7.50	236611	100%	7.50	230545	98%			
D-Acetone(Surrogate)	MS	3.16	150051	100%	3.18	147341	100%			
Total Number of Peaks by GC/MS:		4 + Surrogates			4 + Surrogates					

Unidentified peaks and/or other analytical remarks:

**SOIL GAS SAMPLE RESULTS**

SITE NAME: Mechanical engineering      LAB NAME: HydroGeoSpectrum (HGS)      DATE: 28Sept95

ANALYST: Raphe Pavlick      COLLECTOR: Tony Garza      INSTRUMENT ID: 2415A8201

NORMAL INJECTION VOLUME: 1 ml

Sample ID:	SV05	SV05	SV05
	VOA8251-01084	VOA8255-01087	VOA8253-1086
Sampling Depth (ft)	20	20	27
Purge Volume (ml)	2250	2250	2550
Vacuum	NO	NO	NO
Sampling Time	1157	1353	1353
Injection Time	1245	1658	1439
Injection Volume	1ml	1ml	1ml
Dilution Factor	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene(DCE)	MS	4.18	29655	13.73	4.13	23434	14.99	4.13	16731	11.70
1,1-Dichloroethane(DCA)	MS									
1,1,1-Trichloroethane (TCA)	MS	6.21	477781	198.96	6.17	472648	186.93	6.16	415485	164.32
Trichloroethene(TCE)	MS									
Tetrachloroethene(PCE)	MS	9.84	23830	11.32	9.73	25415	12.07	9.74	21645	10.28
D-Chloroform (Surrogate)	MS	5.28	116208	100%	5.21	121307	104%	5.20	121516	105%
D6-Benzene(Surrogate)	MS	7.56	237278	99%	7.50	233816	99%	7.48	238347	101%
D-Acetone(Surrogate)	MS	3.18	145186	101%	3.15	146680	102%	3.15	149750	104%
Total Number of Peaks by GC/MS:		3 + Surrogates			3 + Surrogates			3 + Surrogates		

Unidentified peaks and/or other analytical remarks:



**SOIL GAS SAMPLE RESULTS**

SITE NAME: Mechanical engineering      LAB NAME: HydroGeoSpectrum (HGS)      DATE: 28Sept95  
 ANALYST: Raphe Pavlick      COLLECTOR: Tony Garza      INSTRUMENT ID: 2415A8201  
 NORMAL INJECTION VOLUME: 1 ml  
 Sample ID: SV01      SV01      SV01  
                   VOA8248      VOA8249-01082      VOA8258-1091  
 Sampling Depth (ft)      30      40      50  
 Purge Volume (ml)      3000      3450      3600  
 Vacuum      NO      NO      NO  
 Sampling Time      0928      0933      1726  
 Injection Time      1014      1033      1837  
 Injection Volume      1ml      1ml      1ml  
 Dilution Factor      1      1      1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene(DCE)	MS	4.05	48332	33.81	4.08	69892	48.89	4.15	44032	30.80
1,1-Dichloroethane(DCA)	MS	4.66	4196	1.40						
1,1,1-Trichloroethane (TCA)	MS	6.17	633216	250.39	6.18	370027	146.34	6.17	150109	59.45
Trichloroethene(TCE)	MS									
Tetrachloroethene(PCE)	MS	9.81	18665	3.87	9.83	14749	7.01	9.76	3350	1.59
D-Chloroform (Surrogate)	MS	5.18	123279	106%	5.20	118306	102%	5.23	115264	99%
D6-Benzene(Surrogate)	MS	7.54	237887	101%	7.54	235281	100%	7.50	234405	99%
D-Acetone(Surrogate)	MS	3.01	145260	101%	3.05	146830	102%	3.18	140187	98%
Total Number of Peaks by GCMS:		4 + Surrogates			3 + Surrogates			3 + Surrogates		

Unidentified peaks and/or other analytical remarks:

**SOIL GAS SAMPLE RESULTS**

SITE NAME: Mechanical engineering      LAB NAME: HydroGeoSpectrum (HGS)      DATE: 28Sept95  
 ANALYST: Raphe Pavlick      COLLECTOR: Tony Garza      INSTRUMENT ID: 2415A8201  
 NORMAL INJECTION VOLUME: 1 ml  
 Sample ID: AMBIENT BLANK      SV01      SV01  
                   VOA8242      VOA8246-01080      VOA8246-1080  
 Sampling Depth (ft)      NA      TRAIN BLANK      TRAIN BLANK  
 Purge Volume (ml)      NA      750      750  
 Vacuum      NO      NO      NO  
 Sampling Time      0758      0755      0755  
 Injection Time      0758      0936      0954  
 Injection Volume      1ml      1ml      1ml  
 Dilution Factor      1      1      1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene(DCE)	MS									
1,1-Dichloroethane(DCA)	MS									
1,1,1-Trichloroethane (TCA)	MS									
Trichloroethene(TCE)	MS									
Tetrachloroethene(PCE)	MS									
D-Chloroform (Surrogate)	MS	5.17	120679	104%	5.26	118066	102%	5.14	119359	103%
D6-Benzene(Surrogate)	MS	7.55	237824	101%	7.56	231441	98%	7.54	238671	101%
D-Acetone(Surrogate)	MS	2.95	145259	101%	3.19	146915	102%	2.95	149314	104%
Total Number of Peaks by GCMS:		0 + Surrogates			0 + Surrogates			0 + Surrogates		

Unidentified peaks and/or other analytical remarks:

**SOIL GAS SAMPLE RESULTS**

SITE NAME: Mechanical engineering      LAB NAME: HydroGeoSpectrum (HGS)      DATE: 25Sept95  
 ANALYST: Raphe Pavlick      COLLECTOR: Tony Garza      INSTRUMENT ID: 2415A8201

NORMAL INJECTION VOLUME: 1 ml

Sample ID:	AMBIENT BLANK	SV03
	VOA8217	VOA8220-01060
Sampling Depth (ft)	NA	TRAIN BLANK
Purge Volume (ml)	NA	750
Vacuum	NO	NO
Sampling Time	1220	1320
Injection Time	1220	1506
Injection Volume	1ml	1ml
Dilution Factor	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethane(DCE)	MS									
1,1-Dichloroethane(DCA)	MS									
1,1,1-Trichloroethane (TCA)	MS									
Trichloroethene(TCE)	MS									
Tetrachloroethene(PCE)	MS									
D-Chloroform (Surrogate)	MS	5.23	113661	98%	5.39	109580	94%			
D6-Benzene(Surrogate)	MS	7.50	241508	102%	7.48	218547	92%			
D-Acezone(Surrogate)	MS	3.18	116984	96%	3.12	135219	94%			
Total Number of Peaks by GCMS:		0 + Surrogates			0 + Surrogates					

Unidentified peaks and/or other analytical remarks:

**SOIL GAS SAMPLE RESULTS**

SITE NAME: Mechanical engineering      LAB NAME: HydroGeoSpectrum (HGS)      DATE: 25Sept95  
 ANALYST: Raphe Pavlick      COLLECTOR: Tony Garza      INSTRUMENT ID: 2415A8201

NORMAL INJECTION VOLUME: 1 ml

Sample ID:	SV02	SV02	SV03
	VOA8219-01059	VOA8222-01062	VOA8221-01061
Sampling Depth (ft)	15	15	15
Purge Volume (ml)	1800	1800	1800
Vacuum	NO	NO	NO
Sampling Time	1305	1347	1335
Injection Time	1442	1548	1529
Injection Volume	1ml	1ml	1ml
Dilution Factor	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene(DCE)	MS	3.99	14473	10.12	4.10	13446	9.40	4.14	42039	29.40
1,1-Dichloroethane(DCA)	MS							4.73	4787	1.60
1,1,1-Trichloroethane (TCA)	MS	6.10	235054	92.96	6.15	234223	92.63	6.16	665829	263.33
Trichloroethene(TCE)	MS									
Tetrachloroethene(PCE)	MS	9.73	16779	7.97	9.74	18355	8.91	9.74	109063	51.82
D-Chloroform (Surrogate)	MS	5.13	106391	92%	5.18	105975	91%	5.22	110056	95%
D6-Benzene(Surrogate)	MS	7.46	221173	94%	7.49	218265	92%	7.49	215958	91%
D-Acezone(Surrogate)	MS	2.99	130533	91%	3.11	131427	92%	3.18	132175	92%
Total Number of Peaks by GCMS:		3 + Surrogates			3 + Surrogates			4 + Surrogates		

Unidentified peaks and/or other analytical remarks:

**SOIL GAS SAMPLE RESULTS**

SITE NAME: Mechanical engineering      LAB NAME: HydroGeoSpectrum (HGS)      DATE: 25Sept95  
 ANALYST: Raphe Pavlick      COLLECTOR: Tony Garza      INSTRUMENT ID: 2415A8201  
 NORMAL INJECTION VOLUME: 1 ml  
 Sample ID: SV01      SV01      SV01  
                                          VOA8217-01057      VOA8218-01058  
 Sampling Depth (ft)      20      20  
 Purge Volume (ml)      1500      2250  
 Vacuum      NO      NO  
 Sampling Time      1214      1219  
 Injection Time      1406      1424  
 Injection Volume      1ml      1ml  
 Dilution Factor      1      1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene(DCE)	MS	4.13	28854	20.18	4.09	33161	23.19			
1,1-Dichloroethane(DCA)	MS	4.69	3192	1.06	4.68	3174	1.06			
1,1,1-Trichloroethane (TCA)	MS	6.15	434814	191.74	6.13	506009	197.99			
Trichloroethene(TCE)	MS									
Tetrachloroethene(PCE)	MS	9.74	26990	12.82	9.73	32196	15.30			
D-Chloroform (Surrogate)	MS	5.20	111946	96%	5.17	107632	93%			
D6-Benzene(Surrogate)	MS	7.49	121386	93%	7.48	214563	91%			
D-Acetone(Surrogate)	MS	3.14	140656	98%	3.10	134340	94%			
Total Number of Peaks by GCMS:		4 + Surrogates			4 + Surrogates					

Unidentified peaks and/or other analytical remarks: PURGE TEST; A VALUE OF 5-10 PURGE VOLUMES APPEARS TO GIVE SAMPLES THAT ARE INEQUILIBRIUM IN THE SUBSURFACE WITH NO AMBIENT DILUTION

**SOIL GAS SAMPLE RESULTS**

SITE NAME: Mechanical engineering      LAB NAME: HydroGeoSpectrum (HGS)      DATE: 25Sept95  
 ANALYST: Raphe Pavlick      COLLECTOR: Tony Garza      INSTRUMENT ID: 2415A8201  
 NORMAL INJECTION VOLUME: 1 ml  
 Sample ID: SV01      SV01      SV01  
                                          VOA8214-01054      VOA8215-01055      VOA8216-01056  
 Sampling Depth (ft)      20      20      20  
 Purge Volume (ml)      300      600      1050  
 Vacuum      NO      NO      NO  
 Sampling Time      1206      1208      1211  
 Injection Time      1302      1324      1345  
 Injection Volume      1ml      1ml      1 ml  
 Dilution Factor      1      1      1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene(DCE)	MS				4.09	11453	8.01	4.12	25887	18.31
1,1-Dichloroethane(DCA)	MS									
1,1,1-Trichloroethane (TCA)	MS	6.11	12492	4.55	6.15	177649	70.26	6.15	437945	173.20
Trichloroethene(TCE)	MS									
Tetrachloroethene(PCE)	MS				9.76	6339	2.96	9.75	20901	9.88
D-Chloroform (Surrogate)	MS	5.12	105581	93%	5.18	133186	97%	5.19	115768	100%
D6-Benzene(Surrogate)	MS	7.46	219403	93%	7.48	217364	92%	7.49	211500	98%
D-Acetone(Surrogate)	MS	2.99	133519	93%	3.13	140612	98%	3.13	135102	94%
Total Number of Peaks by GCMS:		1 + Surrogates			3 + Surrogates			3 + Surrogates		

Unidentified peaks and/or other analytical remarks: PURGE TEST; SEE FOLLOWING PAGES FOR CONCLUSIONS.



**Department of Toxic Substances Control**

Maureen F. Gorsen, Director  
 1001 "I" Street  
 P.O. Box 806  
 Sacramento, California 95812-0806



October 24, 1995

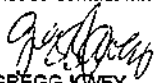
Mr. William Anderson  
 Mechanical Engineering  
 433 Fernando Court  
 Glendale, CA 91204

WELL INVESTIGATION PROGRAM—MECHANICAL ENGINEERING, 433 FERNANDO COURT, GLENDALE, CALIFORNIA (FILE NO. 113. 0149)

We have received your report dated October 15, 1995, presenting the results for the second soil gas investigation. The analytical data presented in the report shows relatively low concentrations of 1,1,1-TCA and other chlorinated compounds are found in the soil beneath your site.

Based on the results of this and the previous soil gas investigation, no further action is required with respect to the Well Investigation Program. This letter in no way released you from any other chemical or waste storage or handling requirements of this or any other agency.

Please contact Mr. John Gerlach at (213) 266-7577 if you have any questions.

  
 GREGG KWEY  
 Senior Water Resources  
 Control Engineer

cc: Michael Osinski, U.S. EPA, Region IX  
 B.J. Atkins, Environmental Help, Inc.  
 Raphe Pavlick, Hydrogeospectrum, Inc.

EPA ID PROFILE

ID Number: CAL000066985 Name: MECHANICAL CONCEPTS INC  
 Status: ACTIVE Inactive Date: Record Entered: 01/17/2003 Last Updated: 01/17/2003  
 County: LOS ANGELES NAICS: 33271 SIC: 3599

	Name	Address	City	State	Zip Code	Phone
Location	MECHANICAL CONCEPTS INC	429 FERNANDO CT	GLENDALE	CA	91204	
Mailing		429 FERNANDO CT	GLENDALE	CA	91204	
Owner	MECHANICAL CONCEPTS INC	429 FERNANDO CT	GLENDALE	CA	91204	8185071033
Operator/Contact	BRUCE WILTON	429 FERNANDO CT	GLENDALE	CA	91204	8185071033

Based ONLY upon ID Number CAL000066985

Calif. Manifests ?	Non Calif. Manifests ?	Transporter Registration ?
YES	NO	NO

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

The Department of Toxic Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

**Calif. Manifest Counts and Total Tonnage**

Top line represents Manifest Count and Bottom line represents Total Tonnage

	GENERATOR	TRANS. 1	TRANS. 2	TSDF	ALT. TSDF
1997	1 0.2293				
1998	2 0.4586				
1999	1 0.2293				
2001	1 0.2293				
2003	2 0.4170				
2004	2 0.2460				
2005	1 0.2294				
2006	1 0.2294				

**Non California Manifest Total Tonnage**

**Waste Code By Year By Entity Matrix Report  
(based on California Manifests only)**

Calif.	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF
RCRA	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF

**California Waste Code By Year Matrix**

ID Number: CAL000066885

Entity Type: GENERATOR

*Weight ( in Tons)*

Ship Years

Calif. Code	Description	1997	1998	1999	2001	2003	2004
213	HYDROCARBON SOLVENTS	0.2293					
214	UNSPECIFIED SOLVENT MIXTURE						0.0167
221	WASTE OIL AND MIXED OIL					0.4170	0.2294
223	UNSPECIFIED OIL-CONTAINING WASTE		0.4586	0.2293	0.2293		
<b>Grand Total</b>		<b>0.2293</b>	<b>0.4586</b>	<b>0.2293</b>	<b>0.2293</b>	<b>0.4170</b>	<b>0.2460</b>

2005	2006
0.2284	0.2284
0.2294	0.2294

ENTER FILE NO. FROM LETTER 112-0148

91 OCT 22 8 14 35

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LOS ANGELES REGION  
CHEMICAL STORAGE AND USE QUESTIONNAIRE

I. COMPANY NAME: Mechanical Concepts, Inc  
 II. FACILITY ADDRESS: 429 Fernando Court  
 III. FACILITY INFORMATION  
 A. STANDARD INDUSTRIAL CLASSIFICATION CODE(SIC): _____  
 B. GENERATOR NUMBER(EPA/STATE): _____  
 C. BRIEF DESCRIPTION OF OPERATIONS: DESIGN & BUILD  
SPECIALIZED MACHINERY  
 _____  
 _____  
 D. SEWER SYSTEM: INDUSTRIAL _____ MUNICIPAL _____  
 SEPTIC TANK _____ CESS POOL _____  
 WAS A DIFFERENT SEWER SYSTEM USED IN THE PAST? YES X NO  
 IF YES SPECIFY TYPE _____ DATE CONVERTED _____  
 E. FACILITY OWNER MR. GERRY MCCANN  
 F. HISTORY: DATE OPERATIONS BEGAN: '84  
 PRIOR OWNERS: N/A

IV. CHEMICAL STORAGE AND USE AT THE SITE. Complete sections A-G (page 2) for all chemicals in current use or that have been used in the past, use additional sheets if necessary.

A. CHEMICAL NAME: PETROLEUM WASTE B. COMMON/TRADE NAME: _____

C. METHOD OF STORAGE: UNDERGROUND TANK _____ ABOVE GROUND TANK _____  
 BARRELS _____ OTHER (specify) SOLVENT TANK

D. QUANTITY STORED: (5) GAL.

E. WASTE DISPOSAL METHOD: SEWERED _____ HAULED  ONSITE DISPOSAL _____

F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES _____ NO   
 If yes, method of treatment: _____

G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES _____ NO

A. CHEMICAL NAME: _____ B. COMMON/TRADE NAME: _____

C. METHOD OF STORAGE: UNDERGROUND TANK _____ ABOVE GROUND TANK _____  
 BARRELS _____ OTHER (specify) _____

D. QUANTITY STORED: _____

E. WASTE DISPOSAL METHOD: SEWERED _____ HAULED _____ ONSITE DISPOSAL _____

F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES _____ NO _____  
 If yes, method of treatment: _____

G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES _____ NO _____

A. CHEMICAL NAME: _____ B. COMMON/TRADE NAME: _____

C. METHOD OF STORAGE: UNDERGROUND TANK _____ ABOVE GROUND TANK _____  
 BARRELS _____ OTHER (specify) _____

D. QUANTITY STORED: _____

E. WASTE DISPOSAL METHOD: SEWERED _____ HAULED _____ ONSITE DISPOSAL _____

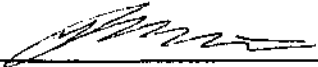
F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES _____ NO _____  
 If yes, method of treatment: _____

G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES _____ NO _____

V. THIS QUESTIONNAIRE SHALL BE SIGNED BELOW AS FOLLOWS:

- A. In the case of corporations, by a principal executive officer at the level of vice-president or his duly authorized representative if such representative is responsible for the overall operation of the facility, or
- B. In the case of a partnership, by a general partner, or
- C. In the case of a sole proprietorship, by the proprietor, or
- D. In the case of a municipal, State, or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

This questionnaire has been completed under penalty of perjury and, to the best of my knowledge, is true and correct.

Signature:  Date: 10/15/91

Printed Name: BRUCE WILTON

Title: SEC./TREAS. Phone: (818) 507-1033

Contact Name: Same as Above

Title: _____ Phone: _____

INSPECTION CHECKLIST  
WELL INVESTIGATION PROGRAM

I. GENERAL INFORMATION

Site name Mechanical Concepts, Inc. WIP File # 113.0148  
 Address 429 Fernando Court Site # PS  
Glendale, CA 91204 SIC Code 3499  
 Ownership Federal State Local Agcy Private P  
 Organization Corporation  
 (Corporation, Partnership, Sole Proprietor, etc.)  
 Corporate Relationship Division  
 (Parent, Subsidiary, Division, etc.)  
 Contact Bruce Wilson Telephone No. (818) 507-1033  
 Other Participants (e.g., Board staff, consultants)  
J. Geroch and L. Macias  
 Number of Employees (at this location) 8  
 Length of time facility at this location 12 yrs.

	ACTIVITIES		PERMITS		PERMIT No.s
	Yes	No	Yes	No	
Generator	—	—	—	<u>N</u>	<u>NA</u>
Treatment	—	—	—	<u>N</u>	<u>NA</u>
Storage	—	—	—	<u>N</u>	<u>NA</u>
Disposal	—	—	—	<u>N</u>	<u>NA</u>
Transporter	—	—	—	<u>N</u>	<u>NA</u>

Chemical Use Questionnaire YES NO  
 Submitted Y —  
 Returned Complete/Completed Y —  
 Copy Left For Submittal — N  
 Chemical Use Questionnaire revised/amended? — N  
 Photographs taken — Yes N No

Priority P4  
 Inspector JG/LM  
 Date 11/17/94

Senior GK  
 Review Date 11/17/94

II. FACILITY DESCRIPTION AND LAYOUT

	Yes	No	Yes	No
Underground Tanks (number <u>N</u> )				<u>N</u>
permits	—	—		
tested for leaks	—	—		
under monitoring program	—	—		
Above Ground Tanks (number <u>N</u> )				<u>N</u>
good condition	—	—		
appearance of discharges	—	—		
(M)aterials and (W)aste Storage:			<u>Y</u>	
indoors <u>Y</u>		covered <u>Y</u>	concrete <u>Y</u>	
outdoors <u>—</u>		uncovered <u>—</u>	asphalt <u>—</u>	
locked <u>—</u>		curbed/bermed <u>—</u>	soil <u>—</u>	
containers sealed <u>—</u>		other: <u>—</u>		
size, number, and condition of containers <u>Two 5</u>				
gallons <u>containers that are hauled prior to</u>				
disposal <u>—</u>				
Does spill control appear adequate?			<u>NA</u>	

For how long is waste stored? Approximately 2 months.  
 (is it exceeding holding times?) — Yes — No — Not labeled

How are chemicals/materials managed?  
 Are chem/mat. rotated on a first in/first out basis? — Yes NA No  
 MSDSs available for all chemicals Y  
 Emergency/spill response equip. available? Y  
 Are incompatible chemicals stored together? — NA  
 Are obsolete chemicals being stored — NA  
 If so, what chemicals and how much? —

III. PROCESS, HANDLING, DISPOSAL

	Yes	No
Potential for Leaks, Spills, or Discharges	—	<u>N</u>
Describe volumes, construction materials, and substances handled. <u>Two ten gallon containers used for storage of petroleum waste.</u>		
Clarifier(s) (number <u>—</u> )		<u>N</u>
Sump(s) (number <u>2</u> )	<u>Y</u>	—
Underground piping (Sanitary Sewer)	<u>Y</u>	—



## IV. EVIDENCE OF WASTE DISCHARGE

Overall Facility Impressions	Yes	No
Clean	<u>Y</u>	___
Good Housekeeping Practices	<u>Y</u>	___
Evidence of Discharge (describe) (e.g., discolored soil, oily stains)	___	<u>N</u>

Migration Pathways  
(e.g., corroded or cracked pavemt/conc?) ___ N  
If "yes," describe _____  
Describe any visual evidence of release to soil: _____

Any previous soil or site investigation(s)? ___ N  
Describe _____

Does Generator appear to be familiar with Federal and State regulations on hazardous waste? ___ Yes ___ No ___ NA

## V. COMMENTS (Make sure questionnaires are complete, attach another page if necessary for your comments)

Mechanical Concepts designs and manufactures custome parts and machines. No underground or above-ground storage tanks, clarifiers. Two floor drains are present but are covered with concrete and are no longer in use.

Require: 1) No further work required.



December 1, 1994

Mr. Bruce Wilton  
Mechanical Concepts, Inc.  
429 Fernando Court  
Glendale, CA 91204

WELL INVESTIGATION PROGRAM—INITIAL SITE INSPECTION, MECHANICAL CONCEPTS, INC., 429 FERNANDO COURT, GLENDALE, CALIFORNIA (FILE NO. 113.0148)

On November 17, 1994, your facility was inspected by a member of this Regional Board's staff. The inspection focused on past and present methods for handling chemicals and wastes at your facility.

Based on the inspector's observations and the information presented during the inspection, the practice of handling chemicals and wastes at your facility appears to be satisfactory. Therefore, with respect to the Well Investigation Program, no further action is required at this time.

You are requested to notify this Board of any change in your operations regarding storing and handling of chemicals or processing and disposing of wastes.

This letter in no way releases you from any chemical or waste handling requirements of this or any other agency.

If you have any questions, please contact Mr. John Geroch at (213) 266-7577.

GREGG KWEY  
Senior Water Resources  
Control Engineer

cc: Michael Osinski, U.S. EPA—Region IX



Linda S. Adams  
Secretary for  
Environmental Protection

### Department of Toxic Substances Control

Maureen F. Gorsen, Director  
1001 "I" Street  
P.O. Box 806  
Sacramento, California 95812-0806



Arnold Schwarzenegger  
Governor

#### EPA ID PROFILE

ID Number: **CAP400477747** Name: NOVA AUTOMOTIVE  
Status: **INACTIVE** Inactive Date: 12/21/2000 Record Entered: 05/13/1998 Last Updated: 12/21/2000  
County: **LOS ANGELES** NAICS: SIC:

	Name	Address	City	State	Zip Code	Phone
Location	NOVA AUTOMOTIVE	421 FERNANDO CT	BLENDALE	CA	912042723	
Mailing	-	-	-	99	00000000	
Owner	-	-	-	99	-	000000000
Operator/ Contact	-	-	-	99	-	-

Based ONLY upon ID Number **CAP400477747**

Calif. Manifests ?	Non Calif. Manifests ?	Transporter Registration ?
YES	NO	NO

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (If available) are on the next page

The Department of Toxic Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

Report Generation Date: 10/19/2007

1

#### Calif. Manifest Counts and Total Tonnage

Top line represents Manifest Count and Bottom line represents Total Tonnage

	GENERATOR	TRANS. 1	TRANS. 2	TSDF	ALT. TSDF
1993	3 40.4544				

#### Non California Manifest Total Tonnage

#### Waste Code By Year By Entity Matrix Report (based on California Manifests only)

Calif.	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF
RCRA	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF

Report Generation Date: 10/19/2007

2

California Waste Code By Year Matrix

ID Number: CAP400477747  
 Entity Type: GENERATOR  
 Weight (in Tons)  
 Ship Years

Calif. Code	Description	1993
511	CONTAMINATED SOILS FROM SITE CLEAN-UP	40.4544
Grand Total		40.4544



Linda S. Adams  
 Secretary for  
 Environmental Protection

Department of Toxic Substances Control

Maureen F. Gorsen, Director  
 1001 "I" Street  
 P.O. Box 806  
 Sacramento, California 95812-0806



Arnold Schwarzenegger  
 Governor

EPA ID PROFILE

ID Number: CAL000045320 Name: FLEMING JACQUET & MILLER INC  
 Status: INACTIVE Inactive Date: 06/30/2001 Record Entered: 04/02/1991 Last Updated: 04/19/2002  
 County: LOS ANGELES NAICS: SIC:

	Name	Address	City	State	Zip Code	Phone
Location	FLEMING JACQUEY & MILLER INC	1300 GARDENA AVENUE	GLENDALE	CA	912040000	
Mailing		1300 GARDENA AVE	GLENDALE	CA	912042726	
Owner	FLEMING EDGAR	-	-	99	-	0000000000
Operator/Contact	NON-DELIVERABLE 4/94 FEE FORM	-	-	99	-	-

Based ONLY upon ID Number CAL000045320

Calif. Manifests ?	Non Calif. Manifests ?	Transporter Registration ?
YES	NO	NO

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

The Department of Toxic Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

**Calif. Manifest Counts and Total Tonnage**

Top line represents Manifest Count and Bottom line represents Total Tonnage

	GENERATOR	TRANS. 1	TRANS. 2	TSDF	ALT. TSDF
1993	2 0.6796				
1994	3 0.9007				
1995	5 2.1558				
1996	4 1.2421				
1997	4 2.1391				
1998	2 1.3135				
1999	4 2.5853				
2000	1 0.5212				

**Non California Manifest Total Tonnage**

**Waste Code By Year By Entity Matrix Report  
(based on California Manifests only)**

Calif.	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF
RCRA	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF

**California Waste Code By Year Matrix**

ID Number: CAL000045320

Entity Type: GENERATOR

*Weight ( in Tons)*

Ship Years

Calif. Code	Description	1993	1994	1995	1996	1997	1998
213	HYDROCARBON SOLVENTS	0.8796	0.8007	0.4587			1.3135
214	UNSPECIFIED SOLVENT MIXTURE			1.8971	0.8924	2.1391	
352	OTHER ORGANIC SOLIDS				0.5560		
<b>Grand Total</b>		<b>0.6796</b>	<b>0.9007</b>	<b>2.1558</b>	<b>1.2421</b>	<b>2.1391</b>	<b>1.3135</b>

1999	2000
2.5853	0.5212
2.5853	0.5212



Linda S. Adams  
Secretary for  
Environmental Protection

## Department of Toxic Substances Control

Maureen F. Gorsen, Director  
1001 "I" Street  
P.O. Box 806  
Sacramento, California 95812-0806



Arnold Schwarzenegger  
Governor

### EPA ID PROFILE

ID Number: **CAD883608645** Name: **GUARDIAN X RAY SERVICES**  
 Status: **INACTIVE** Inactive Date: **06/30/1998** Record Entered: **10/28/1991** Last Updated: **04/27/1999**  
 County: **LOS ANGELES** NAICS: SIC:

	Name	Address	City	State	Zip Code	Phone
Location	GUARDIAN X RAY SERVICES	1422 GARDEHA AVE	GLENDALE	CA	912040000	
Mailing		1422 GARDEHA AVE	GLENDALE	CA	912040000	
Owner	GUARDIAN X RAY SERVICES	1422 GARDEHA AVE	GLENDALE	CA	--	0000000000
Operator/ Contact	ROB BERRY	INACT PER 98YO FINAL NOTICE - BATCH 427	GLENDALE	CA	--	8182408370

Based ONLY upon ID Number **CAD883608645**

Calif. Manifests ?	Non Calif. Manifests ?	Transporter Registration ?
YES	NO	INACTIVE

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available)  
are on the next page

The Department of Toxic Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

Report Generation Date: 10/19/2007

**Calif. Manifest Counts and Total Tonnage**

Top line represents Manifest Count and Bottom line represents Total Tonnage

	GENERATOR	TRANS. 1	TRANS. 2	TSDF	ALT. TSDF
1993	1 1.4595	420 16.1700			
1994		539 30.4871			
1995	1 0.0535	828 46.0358	1 0.0542		
1996	13 0.9918	1024 64.0545			
1997	1 0.6255	609 36.4018			
1998	1 0.0208	2 0.0416			

**Non California Manifest Total Tonnage**

**Waste Code By Year By Entity Matrix Report  
(based on California Manifests only)**

Calif.	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF
RCRA	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF

**California Waste Code By Year Matrix**

ID Number: CAD983809646

Entity Type : GENERATOR

*Weight ( In Tons)*

Ship Years

Calif. Code	Description	1993	1995	1996	1997	1998
134	AQ SOL (2 &lt;i>M</i>; PH&lt;i>ic</i> 12.5) W ORG RESIDUES &lt;i>M</i>; 10%				0.6255	
171	METAL SLUDGE		0.0535	0.0525		0.0208
181	OTHER INORGANIC SOLID WASTE			0.0180		
223	UNSPECIFIED OIL-CONTAINING WASTE	1.4595				
541	PHOTOCHEMICALS / PHOTOPROCESSING WASTE			0.9918		
<b>Grand Total</b>		<b>1.4595</b>	<b>0.0535</b>	<b>0.9918</b>	<b>0.6255</b>	<b>0.0208</b>



Linda S. Adams  
Secretary for  
Environmental Protection

## Department of Toxic Substances Control

Maureen F. Gorsen, Director  
1001 "I" Street  
P.O. Box 806  
Sacramento, California 95812-0806



Arnold Schwarzenegger  
Governor

### EPA ID PROFILE

ID Number: **CAL000072103** Name: **GUARDIAN X-RAY SERVICES INC**  
Status: **INACTIVE** Inactive Date: **08/30/2001** Record Entered: **03/11/1992** Last Updated: **04/19/2002**  
County: **LOS ANGELES** NAICS: SIC:

	Name	Address	City	State	Zip Code	Phone
Location	GUARDIAN X-RAY SERVICES INC	1422 GARDENA AVE	GLENDAL	CA	912040000	
Mailing		1422 GARDENA AVE	GLENDAL	CA	912042710	
Owner	GUARDIAN X-RAY SERVICES INC			99		0000000000
Operator/Contact	INACTIVE USE CAD883698645	1422 GARDENA AVE	GLENDAL	CA	912040000	8182408370

Based ONLY upon ID Number **CAL000072103**

Calif. Manifests ?	Non Calif. Manifests ?	Transporter Registration ?
YES	NO	NO

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

The Department of Toxic Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

Report Generation Date: 10/19/2007

1

### Calif. Manifest Counts and Total Tonnage

Top line represents Manifest Count and Bottom line represents Total Tonnage

	GENERATOR	TRANS. 1	TRANS. 2	TSDF	ALT. TSDF
1995	4 0.0225				
1996	2 0.0373				
1997	2 0.0541				
1998	4 0.1708				
1999	19 1.3674				
2000	3 0.1042				

### Non California Manifest Total Tonnage

### Waste Code By Year By Entity Matrix Report (based on California Manifests only)

Calif.	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF
RCRA	Generator	Transporter 1	Transporter 2	TSDF	Alt. TSDF

Report Generation Date: 10/19/2007

2

California Waste Code By Year Matrix

ID Number: CAL000072103

Entity Type: GENERATOR

Weight (in Tons)

Calif. Ship Years

Calif. Code	Description	1995	1996	1997	1998	1999	2000
171	METAL SLUDGE	0.0165			0.0458		
161	OTHER INORGANIC SOLID WASTE	0.0120	0.0165	0.0250			
541	PHOTOCHEMICALS / PHOTOPROCESSING WASTE		6.9208	0.0291	0.1250	1.3874	0.1042
<b>Grand Total</b>		<b>0.0225</b>	<b>0.0373</b>	<b>0.0541</b>	<b>0.1708</b>	<b>1.3874</b>	<b>0.1042</b>

Appendix E  
Interviews





Glendale  
150-1421

**ENVIRONMENTAL SITE ASSESSMENT  
INFORMATION REQUEST**

Per ASTM requirements, we request that the following information be provided to QORE at the time of project authorization or as soon as possible thereafter, if available. In addition, the client should request these information items from the owner or the owner's representative.

Information Requested	Comments (provided by)
Owner (or owner's representative) and contact information	JPI provided to QORE
Site contact name and phone number	JPI Provided to QORE
Tenant List	No tenants on-site
Legal description of the property	
Chain-of-title	JPI does not have a chain of title for the property
Plans and specifications	None
Site Survey	
Environmental site assessment reports	JPI has provided prior environmental and geotechnical reports to QORE
Environmental audit reports	None
Environmental permits	None
Registrations for underground and above-ground storage tanks	None
Material safety data sheets	None
Community right-to-know plan	None
Safety plans; preparedness and prevention plans; spill prevention, containment and control plans; etc.	None
Reports regarding hydrogeological conditions on the property or surrounding area (including wetland reports/permits)	See above
Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	JPI does not have an environmental lien search for the property. However, JPI has requested that QORE obtain an environmental lien/AUL search.
Hazardous waste generator notices or reports	None
Geotechnical studies	See above

Glendale  
150-1421

California

November 2007

Information Requested	Comments (provided by)
Reasonably ascertainable recorded land title records for environmental liens or activity and use limitations currently recorded against the property and provide that information for inclusion in this report.	Not aware of any
Any specialized knowledge or experience, that is material to recognized environmental conditions in connection with the subject property, or if any actual knowledge that the purchase price of the property is significantly less than the purchase price of comparable properties.	Not aware of any other than those conditions mentioned in the environmental documentation provided to QORE at the onset of due diligence.
Knowledge of (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property; or (3) any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.	Same comment as above
Information Provided By: 11/19/07 Date:	Ben Brosseau Name: Signature:



Visit Us on our Website: [www.ctic.com](http://www.ctic.com)

# Chicago Title Company

ISSUING OFFICE: 5675 Ralston Street • Ventura, CA 93003  
805 656-1300 • FAX 805 642-8279

Title No. 07-68001520-J8  
Locate No. CACTI7756-7756-5680-0068001520

## LEGAL DESCRIPTION

### EXHIBIT "A"

## PRELIMINARY REPORT

Title Officer: Jerry Brant Title No.: 07-68001520-J8

Escrow No.: 435 Los Feliz Locate No.: CACTI7756-7756-5680-0068001520

TO: Investment Real Estate Assoc.  
16501 Ventura Blvd., #448  
Encino, CA 91436

ATTN: Warren Berzack  
YOUR REFERENCE: 435 Los Feliz

SHORT TERM RATE:

PROPERTY ADDRESS: 434 Fernando Court, Glendale, California

EFFECTIVE DATE: August 2, 2007, 07:30 A.M.

The form of policy or policies of title insurance contemplated by this report is:

CLTA Standard Coverage Policy - 1990

- THE ESTATE OR INTEREST IN THE LAND HEREINAFTER DESCRIBED OR REFERRED TO COVERED BY THIS REPORT IS:  
  
A Fee
- TITLE TO SAID ESTATE OR INTEREST AT THE DATE HEREOF IS VESTED IN:  
  
**Urban Housing Alliance, LLC, a California limited liability company**
- THE LAND REFERRED TO IN THIS REPORT IS DESCRIBED AS FOLLOWS:  
  
SEE EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF

PF\DJ 08/07/2007

#### Parcel 1:

Lots 13, 14, 15 and 16, Block 1 of W. C. B. Richardson's Subdivision, in the City of Glendale, County of Los Angeles, State of California, as per Map recorded in Book 18, Page 34 of Miscellaneous Records, in the office of the County Recorder of said County.

EXCEPT therefrom those portions of said Lots described as follows:

Beginning at the most Southerly corner of said Lot 16; thence Northwesterly along the Southwesterly line of said Lot 16, a distance of 39.68 feet; thence Northeasterly in a direct line to a point in the Northeasterly line of said Lot 13, distant thereon 20.44 feet Northwesterly from the most Easterly corner of said Lot 13; thence Southeasterly to said most Easterly corner; thence Southwesterly along the Southeasterly line of said Lots 13, 14, 15 and 16 to the point of beginning.

#### Parcel 2:

All those portions of Lots 9 to 12, inclusive, Block 1, W. C. B. Richardson's Subdivision, in the City of Glendale, County of Los Angeles, State of California, as per Map recorded in Book 18, Page 34 Miscellaneous Records, in the office of the County Recorder of said County, described as follows:

Commencing at the intersection of the Northwesterly prolongation of the center line of that portion of Gardena Avenue, 80 feet wide, extending Southeasterly from Los Feliz Boulevard 90 feet wide, with a line parallel with and distant 40 feet Southeasterly measured at right angles from the Southeast line of said Block 1 (said Gardena Avenue being shown as Los Angeles Avenue, and said Los Feliz Boulevard being shown as Tropic Avenue on map of said W. C. B. Richardson's Subdivision); thence North 57° 16' 53" East along said parallel line, 4 feet; thence North 32° 43' 07" West 40 feet to said Southeasterly line of Block 1; thence South 57° 16' 23" West along said Southeasterly line 36 feet; thence North 12° 17' East 6.47 feet to the true point of beginning for this description, thence North 12° 17' East 4.84 feet; thence North 32° 43' 07" West 51.59 feet; thence Northwesterly along a tangent curve concave to the Northeast and having a radius of 1998 feet an arc distance of 97.98 feet to a point of tangency in a line bearing North 29° 54' 32" West; thence North 29° 54' 32" West to the Northwesterly line of said Lot 9; thence Southwesterly along said Northwesterly line and continuing Southwesterly along the Northwesterly lines of said Lots 10, 11 and 12 to the Southwesterly line of said Lot 12; thence Southeasterly along said Southwesterly line to a point distant Northwesterly thereon 20.44 feet from said Southeasterly line of Block 1; thence North 62° 47' 43" East 165.04 feet to the point of beginning.

#### Parcel 3:

Lots 10, 11, 12 and 13, Block 1 of Wilkinson' Subdivision, in the City of Glendale, County of Los Angeles, State of California, as per Map recorded in Book 10, Page 38 of Maps, in the office of the County Recorder of said County.

Together with that portion of the alley shown on map of Wilkinson' Subdivision, as per Map recorded in Book 10, Page 38 of Maps, in the office of the County Recorder of said County, lying Southeasterly of a line drawn parallel with and 12.00 feet Southeasterly of the Southwesterly prolongation of the Northwesterly line of Lot 13, Block 1 of said Subdivision.

#### Parcel 4:

Lots 8 and 9, Block 1 of Wilkinson's Subdivision in the City of Glendale, County of Los Angeles, State of California, as per Map recorded in Book 10, Page 38 of Maps, in the office of the County Recorder of said County.

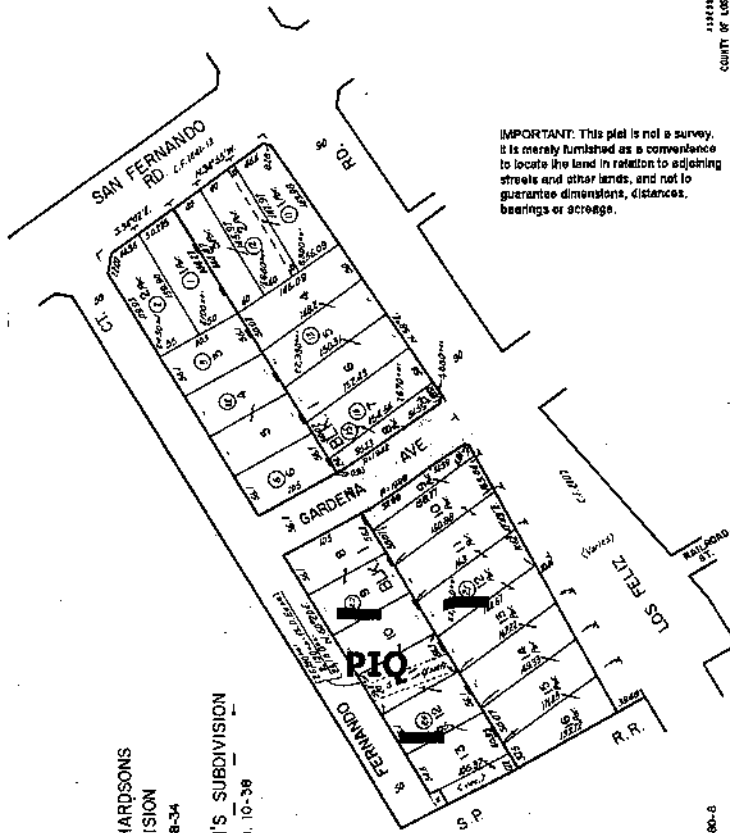
APN: 5640-020-020, 021, 024

5640 20  
SCALE 1" = 80'

1993

W.C.B. RICHARDSONS  
SUBDIVISION  
M.R. 18-34

WILKINSON'S SUBDIVISION  
M.B. 10-38



IMPORTANT: This plat is not a survey. It is merely furnished as a convenience to locate the land in relation to adjoining streets and other lands, and not to guarantee dimensions, distances, bearings or acreage.

11/22/07's map  
COUNTY OF LOS ANGELES, CALIF.

FOR MEY. ASSMT. SET. 80-8  
CORR. 1/8/89



12801 Stemmons Freeway, Suite 607 Dallas, Texas 75234 (972) 247-7229

**RECORD OF CONVERSATION (X) MEETING (X)**

Date:	September 24, 2007	Job Name #/:	465 West Los Feliz/150-1421
Recorded By:	Karen Harvey	Owner / Client:	JPI
Talked With:	Mr. Guy Devorris	Of:	Subject property owner
Position:	Owner	Phone:	818-361-3366

Main Subject: Subject Property Owner

Mr. Devorris stated he and his business partner (Mr. Don Owen) had acquired the subject property in August 2005. Mr. Devorris indicated the majority of the tenants vacated the property immediately, but three tenants remained at the subject property until June 2006. Mr. Devorris stated he was not familiar with the former subject property tenants, and he had not been inside the subject property buildings with the exception of Building 4. Mr. Devorris stated the subject property buildings were boarded up to keep out vandals and he would have to have them broken into to provide access, with the exception of Building 4 which was merely locked. Mr. Devorris stated the subsurface anomalies identified by previous consultants had not been removed from the subject property to his knowledge. During the subject property reconnaissance on September 28, 2007, Mr. Devorris stated he stored various items such as furniture and construction supplies in Building 4. Mr. Devorris stated he was unaware of pending, threatened, or past litigation, administrative proceedings, or government notices pertaining to environmental conditions at the subject property. Mr. Devorris stated Nova Automotive was an automotive parts distributor. Mr. Devorris indicated the tenant at 433 Fernando Court had moved in recently and he did not know who the new tenant was.



12801 Stemmons Freeway, Suite 807 Dallas, Texas 75234 (972) 247-7229

**RECORD OF CONVERSATION (X) MEETING ( )**

Date: October 22, 2007 Job Name / #: 465 West Los Feliz/150-1421  
Recorded By: Karen Harvey Owner / Client: JPI  
Talked With: Ms. Maria (last name withheld) Of: Mountain Valley Water Company  
Position: Operator Phone: 562-940-4466

Main Subject: Subject property operations

Ms. Maria stated Mountain Valley Water Company had been a former tenant of the subject property. Ms. Maria stated Mountain Valley Water Company rented warehouse space for the storage of bottled water. Ms. Maria stated water was not bottled at the subject property and equipment cleaning activities were not conducted at the subject property by Mountain Valley Water Company.



12801 Stemmons Freeway, Suite 807 Dallas, Texas 75234 (972) 247-7229

**RECORD OF CONVERSATION (X) MEETING ( )**

Date: October 15, 2007 Job Name / #: 465 West Los Feliz/150-1421  
Recorded By: Karen Harvey Owner / Client: JPI  
Talked With: Receptionist (name withheld) Of: Mason Electric Company  
Position: Receptionist Phone: 818-361-3366

Main Subject: Historical locations of Mason Electric

The receptionist at Mason Electric Company indicated she was unaware of historical activities of the current Mason Electric Company in Glendale. The receptionist stated Mason Electric Company had historically conducted operations in Burbank.

**Karen Harvey**

**From:** Stensby.David@epamail.epa.gov  
**Sent:** Friday, October 12, 2007 6:44 PM  
**To:** Karen Harvey  
**Subject:** Re: klh - San Fernando Valley NPL information

**Attachments:** 2005_SFV_Report Figure 3-2 TCE Shallow Zone.pdf; 2005_SFV_Report Figure 3-3 PCE Shallow Zone.pdf; 2005_SFV_Report Figure 3-5 TCE Deeper Zone.pdf; 2005_SFV_Report Figure 3-6 PCE Deeper Zone.pdf



2005_SFV_Report Figure 3-2 TCE... 2005_SFV_Report Figure 3-3 PCE... 2005_SFV_Report Figure 3-5 TCE... 2005_SFV_Report Figure 3-6 PCE...

Karen,

Here are the 2005 plume maps for TCE and PCE. I have also asked my Project Manager to send you two or three wells near the intersection you describe. He will provide TCE, PCE and water level information for one or more recent sampling events. Typically, we don't see dramatic changes in this information over short periods of time. As you probably know, water levels in the SFV are dropping due to the dry year last year. (See attached file: 2005_SFV_Report Figure 3-2 TCE Shallow Zone.pdf) (See attached file: 2005_SFV_Report Figure 3-3 PCE Shallow Zone.pdf) (See attached file: 2005_SFV_Report Figure 3-5 TCE Deeper Zone.pdf) (See attached file: 2005_SFV_Report Figure 3-6 PCE Deeper Zone.pdf)

"Karen Harvey"  
<khharvey@qore.ne  
t>

10/11/2007 04:02  
PM

To  
David Stensby/R9/USEPA/US@EPA  
cc  
Subject  
klh - San Fernando Valley NPL  
information

David,

We spoke on the telephone earlier today concerning a site I am assessing in Glendale, California, that lies within the Crystal Springs area of the San Fernando Valley NPL plume. The site I am assessing is located near the intersection of West Los Feliz Road and San Fernando Road in Glendale. You indicated on the telephone that you may be able to provide well-specific information for the 2 to 3 monitoring wells closest to the intersection. You indicated plume maps from 2005 could be emailed to me as well. I am interested in the PCE and TCE plume maps (and any other chlorinated solvents, if present). Please let me know if you need more information.

Thank you for your help. I hope your jury duty was quick and painless.

Sincerely,



12801 Stemmons Freeway, Suite 807 Dallas, Texas 75234 (972) 247-7229

**RECORD OF CONVERSATION (X) MEETING ( )**

Date: October 11, 2007 Job Name /#: 465 West Los Feliz/150-1421  
Recorded By: Karen Harvey Owner / Client: JPI  
Talked With: Mr. David Stensby Of: U.S. EPA, Region IX  
Position: Remedial Project Manager Phone: 213-576-6725

Main Subject: San Fernando Valley NPL Site

Mr. Stensby indicated 2005 plume map figures were available for the San Fernando Valley NPL site. Mr. Stensby also indicated he could provide well-specific information for two to three wells in the vicinity of the subject property. Mr. Stensby indicated 80 wells were installed in the San Fernando Valley by the EPA in the early 1990s, and these wells were the ones used to generate the plume figures. Mr. Stensby provided his email contact information. In a follow-up phone call on November 6, 2007, Mr. Stensby indicated there were approximately 200 PRPs for the Glendale South OU. Mr. Stensby indicated Lockheed Martin was the "lead" RP for VOC groundwater contamination in the Glendale South OU. Mr. Stensby stated the investigation for PRPs for the VOC contamination in the subject property area was conducted approximately 10 years ago.

**Karen Harvey**

---

**From:** Raul Lima [lima@waterboards.ca.gov]  
**Sent:** Friday, October 26, 2007 1:29 PM  
**To:** kharvey@qore.net  
**Subject:** SLIC 2 FILE REV

We have record(s) of investigation for the site located on:

440, 465 W. LOS FELIZ  
429, 433, 437 FERNANDO CT.

If you would like to review this file(s) please reply to this email or call 213-576-6727  
This is a response from the SLIC 2 Unit only.

Thank You,

Raul Lima  
Student Intern

12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234  
Phone: (972) 247-7229  
Fax: (972) 247-7810



## Fax

<b>To:</b>	WIP File Review Desk	<b>From:</b>	Paul Hamilton
<b>Company:</b>	LARWQCB	<b>Project:</b>	465 Los Feliz/150-1421
<b>Fax:</b>	213-576-6717	<b>Date:</b>	October 25, 2007
<b>Phone:</b>	213-576-6817	<b>Pages:</b>	1
<b>Re:</b>	WIP Program	<b>CC:</b>	

Urgent    For Review    Please Comment    Please Reply    Please Recycle

QORE Property Sciences is currently conducting a Phase I Environmental Site Assessment in Glendale, California. Your assistance and file information for the addresses below is requested to identify potential sources of environmental concern that may have occurred on or near our property. These facilities were identified on the WIP list according to the regulatory database listings QORE received.

The files of concern are listed at the following addresses:

440 and 465 West Los Feliz Road  
Glendale, California 91204

429, 433, and 437 Fernando Court  
Glendale, California 91204

QORE appreciates your help with this project. Please contact Ms. Karen Harvey by telephone at 972-247-7229 or 972-522-8048, via email at kharvey@qore.net, or by facsimile at 972-247-7810 with any questions or comments regarding this inquiry. Thank you for your time.

Sincerely,  
QORE Property Sciences

Paul Hamilton  
Associate Professional –  
Environmental Services

**Karen Harvey**

**From:** Raul Lima [rlima@waterboards.ca.gov]  
**Sent:** Tuesday, October 23, 2007 11:23 AM  
**To:** kharvey@qore.net  
**Subject:** SLIC 2 File Rev

Good Morning,

I apologize for responding so late. Unfortunately, our resources have limited staff response times to file reviews and other inquiries.

As for your questions:

WIP stands for Well Investigation Program. This program no longer exists because Federal EPA cut the funding for the oversight to the WIP cases. As a result, many of these cases were added to the SLIC program. The WIP sites are now under the SLIC 2 Program. One of the parameters of the WIP Program was to investigate any potential threat to groundwater production wells. Typically sites that were upgradient of these production wells. The sites that were placed on the WIP list of sites to be investigated, had either contributed to groundwater contamination, or were determined to be a potential contributor to groundwater contamination in that region. Being on the list does not in any way indicate that there are wells on the property. Nor does the "Historical" status of any site mean that the wells, if any on the property, have been removed. As an example, many sites listed as "historical" received letters that they were now being investigated for chromium contamination in 2001. Typically, sites are never taken of the list. The Board may have concluded an investigation for a particular contaminant, however, it does not free anyone from future work on other contaminants.

If you have any other questions, please call my Supervisor-Dixon Oriola 213-576-6803.

Raul Lima

STUDENT Intern.

12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234  
Phone: (972) 247-7229  
Fax: (972) 247-7810



# Fax

<b>To:</b>	WIP File Review Desk	<b>From:</b>	Karen Harvey
<b>Company:</b>	LARWQCB	<b>Project:</b>	465 Los Feliz/150-1421
<b>Fax:</b>	213-576-6717	<b>Date:</b>	October 22, 2007
<b>Phone:</b>	213-576-6817	<b>Pages:</b>	1
<b>Re:</b>	WIP Program	<b>CC:</b>	

Urgent    For Review    Please Comment    Please Reply    Please Recycle

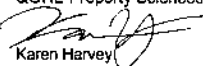
QORE Property Sciences is currently conducting a Phase I Environmental Site Assessment in Glendale, California. Your assistance and file information for the addresses below is requested to identify potential sources of environmental concern that may have occurred on or near our property. These facilities were identified on the WIP list according to the regulatory database listings QORE received.

The files of concern are listed at the following addresses:

440 and 465 West Los Feliz Road  
Glendale, California 91204

429, 433, and 437 Fernando Court  
Glendale, California 91204

QORE appreciates your help with this project. Please contact Ms. Karen Harvey by telephone at 972-247-7229 or 972-622-8048, via email at kharvey@qore.net, or by facsimile at 972-247-7810 with any questions or comments regarding this inquiry. Thank you for your time.

Sincerely,  
QORE Property Sciences  
  
Karen Harvey  
Associate Professional -  
Environmental Services



12801 Stemmons Freeway, Suite 807 Dallas, Texas 75234 (972) 247-7229

**RECORD OF CONVERSATION (X) MEETING ( )**

Date: October 22, 2007 Job Name #: 465 West Los Feliz/150-1421  
Recorded By: Karen Harvey Owner / Client: JPI  
Talked With: Dr. Arthur Heath Of: Los Angeles Regional Water Quality Control Board  
Position: Section Chief, Environmental Program Manager I Phone: 213-576-6725

Main Subject: WIP Program

Dr. Heath stated the Well Investigation Program (WIP) was developed in the mid-1980s after drinking water wells in the San Fernando and San Gabriel Valleys were identified as being contaminated with chlorinated solvents and metals in the late 1970s. Dr. Heath stated over 8,000 sites in the two valleys were investigated as part of the WIP program. Dr. Heath stated facilities listed on the address were identified as responsible parties, confirmed as using chlorinated solvents or heavy metals, or suspected of using chlorinated solvents or heavy metals. Dr. Heath stated he would be glad to answer further questions, or QORE could also contact Mr. Dixon Oriola at 213-576-6803.

**Karen Harvey**

From: Andrew Veloz [asveloz@waterboards.ca.gov]  
Sent: Tuesday, October 02, 2007 12:13 PM  
To: kharvey@qore.net  
Subject: The SLIC 1 Unit has received your faxed request

The SLIC 1 Unit has received your faxed request for information regarding the property(ies) located at:

435 to 485 West Los Feliz Road (odd numbers) and  
434 to 450 Fernando Court (even numbers) Glendale, CA

Currently, the SLIC 1 Unit does not have any record of investigation for the above property(ies). We also recommend that you contact the the SLIC 2 Unit--213-576-6749 and/or the UST Unit at 213-576-6748 for any other records that they may have on the above property(ies)

If you have any questions you may reply to this email or call (213)576-6663 or (213)576-6749.

Thank You for your request.

Andrew Veloz  
Student Intern



12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234  
Phone: (972) 247-7229  
Fax: (972) 247-7810



## Fax

**To:** SLIC 2/Former WIP File Review      **From:** Karen Harvey  
Department

---

**Company:** LA Regional Water Quality Control Board      **Project:** Los Feliz/150-1421

---

**Fax:** 213-576-6717      **Date:** October 1, 2007

---

**Phone:** 213-576-6727      **Pages:** 1

---

**Re:** Open Records Request      **CC:**

Urgent     For Review     Please Comment     Please Reply     Please Recycle

QORE Property Sciences is currently conducting a Phase I Environmental Site Assessment in Glendale, California. Your assistance and file information for the addresses below is requested to identify potential sources of environmental concern that may have occurred near our property. Such information may consist of fuel or chemical storage activities, hazardous material responses, spills, and/or releases or observations noted during routine inspections.

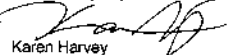
The files of concern are listed at the following address:

435 to 485 West Los Feliz Road (odd numbers) and  
434 to 450 Fernando Court (even numbers)  
Glendale, California 91204

The subject property address of **465 West Los Feliz Road** was identified on the WIP list during review of regulatory databases. What does the WIP listing indicate? i.e. Was groundwater tested at the subject property in the past, are there existing wells on the property, etc.

QORE appreciates your help with this project. Please contact Ms. Karen Harvey by telephone at 972-247-7229 or 972-522-8048, via email at [kharvey@qore.net](mailto:kharvey@qore.net), or by facsimile at 972-247-7810 with any questions or comments regarding this inquiry. Thank you for your time.

Sincerely,  
QORE Property Sciences

  
Karen Harvey  
Associate Professional –  
Environmental Services

### Karen Harvey

**From:** Henry Jones [[hjones@waterboards.ca.gov](mailto:hjones@waterboards.ca.gov)]  
**Sent:** Tuesday, September 25, 2007 3:42 PM  
**To:** [kharvey@qore.net](mailto:kharvey@qore.net)  
**Subject:** Qore: UST file review request

The Los Angeles Regional Water Quality Control Board, Underground Storage Tank (UST) Unit has received your faxed request for information regarding the property(ies) located at:

435 - 485 W Los Feliz Road, Glendale, CA 91204  
434 - 450 Fernando Court, Glendale, CA 91204

Currently, the UST Unit does not have any record of investigation for the above property(ies). We also recommend that you contact the SLIC 1 Unit--213-576-6749 or the SLIC 2/Former WIP Unit at 213-576-6727 for any other records that they may have on the above property(ies). If you have any questions you may reply to this email or call (213)576-6748.

Thank You for your request.

Henry Jones  
UST Unit Student Intern

try geotracker!  
<http://www.geotracker.swrcb.ca.gov/>  
GeoTracker is a geographic information system (GIS) and data warehouse, which provides online public access to environmental data including leaking underground storage tank (UST) case information, and special methyl tertiary-butyl ether (MTBE) case reports.

12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234  
Phone: (972) 247-7229  
Fax: (972) 247-7810



## Fax

**To:** File Review Department **From:** Karen Harvey  
**Company:** LA Regional Water Quality Control Board **Project:** Los Feliz/150-1421  
**Fax:** 213-576-6707 **Date:** September 25, 2007  
**Phone:** 213-576-6748 **Pages:** 1  
**Re:** Open Records Request **CC:**

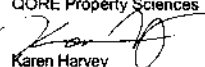
Urgent  For Review  Please Comment  Please Reply  Please Recycle

QORE Property Sciences is currently conducting a Phase I Environmental Site Assessment in Glendale, California. Your assistance and file information for the addresses below is requested to identify potential sources of environmental concern that may have occurred near our property. Such information may consist of fuel or chemical storage activities, hazardous material responses, spills, and/or releases or observations noted during routine inspections.

The files of concern are listed at the following address:

435 to 485 West Los Feliz Road (odd numbers) and  
434 to 450 Fernando Court (even numbers)  
Glendale, California 91204

QORE appreciates your help with this project. Please contact Ms. Karen Harvey by telephone at 972-247-7229 or 972-522-8048, via email at kharvey@qore.net, or by facsimile at 972-247-7810 with any questions or comments regarding this inquiry. Thank you for your time.

Sincerely,  
QORE Property Sciences  
  
Karen Harvey  
Associate Professional –  
Environmental Services

12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234  
Phone: (972) 247-7229  
Fax: (972) 247-7810



## Fax

**To:** Loni Calliri **From:** Karen Harvey  
**Company:** City of Glendale Environmental Management Center **Project:** Los Feliz/150-1421  
**Fax:** 818-549-9777 **Date:** September 25, 2007  
**Phone:** 818-548-4030 **Pages:** 8  
**Re:** File Review **CC:**

Urgent  For Review  Please Comment  Please Reply  Please Recycle

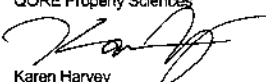
Loni,

The forms you provided, with a separate page for each requested address, follow this cover page as you requested. QORE is conducting a Phase I Site Assessment at the listed addresses and would like to request chemical inventories and/or UST records as marked on each page.

I will be in the Glendale area and available to review the files (if any) on September 26 after 1:30 p.m., and first thing in the morning September 27 and 28. The fire marshal I spoke with indicated your office was open from 7:30 a.m. to 5:00 p.m. I can be there at 7:30 either Thursday or Friday if you let me know the preceding afternoon that the files will be ready.

My cell number is 972-522-8048. Please contact me when you have information on the requested files.

Thank you for your help.

Sincerely,  
QORE Property Sciences  
  
Karen Harvey  
Associate Professional –  
Environmental Services

GLENDALE FIRE DIVISION - ENVIRONMENTAL MANAGEMENT CENTER  
780 Flower Street, Glendale, CA 91201  
818-548-4030 Phone - 818-549-9777 Fax

### PUBLIC RECORDS REQUEST FORM

To expedite your request for records for facilities within the City of Glendale's jurisdiction, please fill out this form completely and identify the type of records you are requesting from the list below.

NOTE: There is a limit of one site address per request form.

A. Requestor  
Name & Title: Karen Harvey, Associate Professional  
Address: 12301 N Stemmons Fwy Ste 807 Dallas, TX 75234  
Employer: QORE Property Sciences  
Employer Address: same as above  
Telephone Number: 972-247-7289 / 972-522-8048 cell

B. Requested Facility  
Facility Name: ~~Pratty~~ Bartels, Pratty Company, (and former service station)  
Facility Address: 435 W Los Feliz Rd, Glendale  
Reason for Request: Phase I Assessment

C. Type of Records Requested  
 Chemical Inventory (for currently permitted sites)  
 Industrial Waste Permit  
 Business Emergency Plan (for currently permitted sites)  
 Underground Storage Tank Records

POLICY: If you request information that has been designated as a Trade Secret you will be advised of additional procedures for obtaining that information.

Specific locations of hazardous materials on the business site will be withheld from the chemical inventory. (Health & Safety Code, Chapter 6.95).

The requestor will not be permitted to remove any original document being reviewed. A computer generated chemical inventory (if available) will be provided, however, no copies of Business Emergency Plan will be available.

Date: 9/25/07  
Requestor's Signature: [Signature]

**SEE REVERSE SIDE OF THIS PAGE FOR POLICY, PROCEDURES AND FEES**

GLENDALE FIRE DIVISION - ENVIRONMENTAL MANAGEMENT CENTER  
780 Flower Street, Glendale, CA 91201  
818-548-4030 Phone - 818-549-9777 Fax

### PUBLIC RECORDS REQUEST FORM

To expedite your request for records for facilities within the City of Glendale's jurisdiction, please fill out this form completely and identify the type of records you are requesting from the list below.

NOTE: There is a limit of one site address per request form.

A. Requestor  
Name & Title: Karen Harvey, Associate Professional  
Address: 12301 N Stemmons Fwy Ste 807 Dallas, TX 75234  
Employer: QORE Property Sciences  
Employer Address: same as above  
Telephone Number: 972-247-7289 / 972-522-8048 cell

B. Requested Facility  
Facility Name: former service station  
Facility Address: 447 W Los Feliz Rd, Glendale  
Reason for Request: Phase I Assessment

C. Type of Records Requested  
 Chemical Inventory (for currently permitted sites)  
 Industrial Waste Permit  
 Business Emergency Plan (for currently permitted sites)  
 Underground Storage Tank Records

POLICY: If you request information that has been designated as a Trade Secret you will be advised of additional procedures for obtaining that information.

Specific locations of hazardous materials on the business site will be withheld from the chemical inventory. (Health & Safety Code, Chapter 6.95).

The requestor will not be permitted to remove any original document being reviewed. A computer generated chemical inventory (if available) will be provided, however, no copies of Business Emergency Plan will be available.

Date: 9/25/07  
Requestor's Signature: [Signature]

**SEE REVERSE SIDE OF THIS PAGE FOR POLICY, PROCEDURES AND FEES**

GLENDALE FIRE DIVISION - ENVIRONMENTAL MANAGEMENT CENTER  
780 Flower Street, Glendale, CA 91201  
818-548-4030 Phone - 818-549-9777 Fax

### PUBLIC RECORDS REQUEST FORM

To expedite your request for records for facilities within the City of Glendale's jurisdiction, please fill out this form completely and identify the type of records you are requesting from the list below.

NOTE: There is a limit of one site address per request form.

A. Requestor  
Name & Title: Karen Harvey, Associate Professional  
Address: 12801 N Stemmons Fwy Ste 807 Dallas, TX 75234  
Employer: QORE Property Sciences  
Employer Address: same as above  
Telephone Number: 972-247-7229 / 972-522-8048 cell

B. Requested Facility  
Facility Name: former ~~gas~~ service station  
Facility Address: 449 W Los Feliz Rd, Glendale  
Reason for Request: Phase I Assessment

C. Type of Records Requested  
 Chemical Inventory (for currently permitted sites)  
 Industrial Waste Permit  
 Business Emergency Plan (for currently permitted sites)  
 Underground Storage Tank Records

POLICY: If you request information that has been designated as a Trade Secret you will be advised of additional procedures for obtaining that information.

Specific locations of hazardous materials on the business site will be withheld from the chemical inventory. (Health & Safety Code, Chapter 6.95).

The requestor will not be permitted to remove any original document being reviewed. A computer generated chemical inventory (if available) will be provided, however, no copies of Business Emergency Plan will be available.

Date: 9/25/07  
Requestor's Signature: [Signature]

**SEE REVERSE SIDE OF THIS PAGE FOR POLICY, PROCEDURES AND FEES**

GLENDALE FIRE DIVISION - ENVIRONMENTAL MANAGEMENT CENTER  
780 Flower Street, Glendale, CA 91201  
818-548-4030 Phone - 818-549-9777 Fax

### PUBLIC RECORDS REQUEST FORM

To expedite your request for records for facilities within the City of Glendale's jurisdiction, please fill out this form completely and identify the type of records you are requesting from the list below.

NOTE: There is a limit of one site address per request form.

A. Requestor  
Name & Title: Karen Harvey, Associate Professional  
Address: 12801 N Stemmons Fwy Ste 807 Dallas, TX 75234  
Employer: QORE Property Sciences  
Employer Address: same as above  
Telephone Number: 972-247-7229 / 972-522-8048 cell

B. Requested Facility  
Facility Name: any? Chef's Select, Mountain Valley Water Co. Glen-webb & Co.  
Facility Address: 465 W Los Feliz Rd, Glendale  
Reason for Request: Phase I Assessment

C. Type of Records Requested  
 Chemical Inventory (for currently permitted sites)  
 Industrial Waste Permit  
 Business Emergency Plan (for currently permitted sites)  
 Underground Storage Tank Records

POLICY: If you request information that has been designated as a Trade Secret you will be advised of additional procedures for obtaining that information.

Specific locations of hazardous materials on the business site will be withheld from the chemical inventory. (Health & Safety Code, Chapter 6.95).

The requestor will not be permitted to remove any original document being reviewed. A computer generated chemical inventory (if available) will be provided, however, no copies of Business Emergency Plan will be available.

Date: 9/25/07  
Requestor's Signature: [Signature]

**SEE REVERSE SIDE OF THIS PAGE FOR POLICY, PROCEDURES AND FEES**

GLENDALE FIRE DIVISION--ENVIRONMENTAL MANAGEMENT CENTER  
780 Flower Street, Glendale, CA 91201  
818-548-4030 Phone - 818-549-9777 Fax

### PUBLIC RECORDS REQUEST FORM

To expedite your request for records for facilities within the City of Glendale's jurisdiction, please fill out this form completely and identify the type of records you are requesting from the list below.

NOTE: There is a limit of one site address per request form.

A. Requestor  
Name & Title: Karen Harvey, Associate Professional  
Address: 12801 W Stemmons Fwy Ste 807 Dallas, TX 75234  
Employer: QORE Property Sciences  
Employer Address: same as above  
Telephone Number: 972-247-7289 / 972-522-8048 cell

B. Requested Facility  
Facility Name: Bactels (and/or former service station)  
Facility Address: 485 W Los Feliz Rd, Glendale  
Reason for Request: Phase I Assessment

C. Type of Records Requested  
 Chemical Inventory (for currently permitted sites)  
 Industrial Waste Permit  
 Business Emergency Plan (for currently permitted sites)  
 Underground Storage Tank Records

POLICY: If you request information that has been designated as a Trade Secret you will be advised of additional procedures for obtaining that information.

Specific locations of hazardous materials on the business site will be withheld from the chemical inventory. (Health & Safety Code, Chapter 6.95).

The requestor will not be permitted to remove any original document being reviewed. A computer generated chemical inventory (if available) will be provided, however, no copies of Business Emergency Plan will be available.

Date: 9/25/07

Requestor's Signature: [Signature]

****SEE REVERSE SIDE OF THIS PAGE FOR POLICY, PROCEDURES AND FEES****

GLENDALE FIRE DIVISION--ENVIRONMENTAL MANAGEMENT CENTER  
780 Flower Street, Glendale, CA 91201  
818-548-4030 Phone - 818-549-9777 Fax

### PUBLIC RECORDS REQUEST FORM

To expedite your request for records for facilities within the City of Glendale's jurisdiction, please fill out this form completely and identify the type of records you are requesting from the list below.

NOTE: There is a limit of one site address per request form.

A. Requestor  
Name & Title: Karen Harvey, Associate Professional  
Address: 12801 W Stemmons Fwy Ste 807 Dallas, TX 75234  
Employer: QORE Property Sciences  
Employer Address: same as above  
Telephone Number: 972-247-7289 / 972-522-8048 cell

B. Requested Facility  
Facility Name: Glendale Rotary Offset Printing (if any others)  
Facility Address: 434 Fernando Court, Glendale  
Reason for Request: Phase I Assessment

C. Type of Records Requested  
 Chemical Inventory (for currently permitted sites)  
 Industrial Waste Permit  
 Business Emergency Plan (for currently permitted sites)  
 Underground Storage Tank Records

POLICY: If you request information that has been designated as a Trade Secret you will be advised of additional procedures for obtaining that information.

Specific locations of hazardous materials on the business site will be withheld from the chemical inventory. (Health & Safety Code, Chapter 6.95).

The requestor will not be permitted to remove any original document being reviewed. A computer generated chemical inventory (if available) will be provided, however, no copies of Business Emergency Plan will be available.

Date: 9/25/07

Requestor's Signature: [Signature]

****SEE REVERSE SIDE OF THIS PAGE FOR POLICY, PROCEDURES AND FEES****

GLENDALE FIRE DIVISION - ENVIRONMENTAL MANAGEMENT CENTER  
780 Flower Street, Glendale, CA 91201  
818-548-4030 Phone - 818-549-9777 Fax

### PUBLIC RECORDS REQUEST FORM

To expedite your request for records for facilities within the City of Glendale's jurisdiction, please fill out this form completely and identify the type of records you are requesting from the list below.

NOTE: There is a limit of one site address per request form.

**A. Requestor**

Name & Title: Karen Harvey, Associate Professional  
Address: 12801 N Stemmons Freeway Ste 807 Dallas, TX 75234  
Employer: QORE Property Sciences  
Employer Address: same as above  
Telephone Number: 972-247-7229 / 972-522-8048 cell

**B. Requested Facility**

Facility Name: any  
Facility Address: 450 Fernando Court  
Reason for Request: Phase I Assessment

**C. Type of Records Requested**

Chemical Inventory (for currently permitted sites)  
 Industrial Waste Permit  
 Business Emergency Plan (for currently permitted sites)  
 Underground Storage Tank Records

**POLICY:** If you request information that has been designated as a Trade Secret you will be advised of additional (in part) procedures for obtaining that information.

Specific locations of hazardous materials on the business site will be withheld from the chemical inventory. (Health & Safety Code, Chapter 6.95).

The requestor will not be permitted to remove any original document being reviewed. A computer generated chemical inventory (if available) will be provided, however, no copies of Business Emergency Plan will be available.

Date: 9/25/07  
Requestor's Signature: [Signature]

****SEE REVERSE SIDE OF THIS PAGE FOR POLICY, PROCEDURES AND FEES****



12801 Stemmons Freeway, Suite 807 Dallas, Texas 75234 (972) 247-7229

### RECORD OF CONVERSATION (X) MEETING ( )

Date: September 25, 2007 Job Name / #: 465 West Los Feliz/150-1421  
Recorded By: Karen Harvey Owner / Client: JPI  
Talked With: Ms. Loni Calitri Of: Glendale Fire Department  
Position: File Clerk Phone: 818-548-4030

Main Subject: Subject property records

Ms. Calitri indicated files had to be requested in writing with a separate page for each address. Ms. Calitri provided the required forms by fax. On September 27, 2007, Ms. Calitri contacted QORE and stated the files requested for the subject property were small enough to be faxed and a visit to the Environmental Management Center would not be necessary.



12801 Stemmons Freeway, Suite 807 Dallas, Texas 75234 (972) 247-7229

**RECORD OF CONVERSATION (X) MEETING ( )**

Date:	September 25, 2007	Job Name /#:	465 West Los Feliz/150-1421
Recorded By:	Karen Harvey	Owner / Client:	JPI
Talked With:	Captain Tom Propst	Of:	Glendale Fire Department
Position:	Public Information Officer	Phone:	818-548-4800

Main Subject: Subject property records

Captain Propst indicated fire department records were located at the Emergency Management Center and provided contact information for Loni at 818-548-4030.

SEP-28-2007 13:16

PHI ADMINISTRATION

P.001/001



JONATHAN E. FIELDING, M.D., M.P.H.  
Director and Health Officer

JOHN F. SCHUNHOFF, Ph.D.  
Chief Deputy

Public Health Investigation  
BOB MOSBY, Chief  
5686 Ferguson Drive, Suite 120-04  
Compton, California 90022  
TEL (323) 890-7801 • FAX (323) 728-0217

www.lapublichealth.org



BOARD OF SUPERVISORS

Glenn Beaman  
First District  
Yvonne R. Burda  
Second District  
Zev Yaroslavsky  
Third District  
Don Knabe  
Fourth District  
Michael B. Antonovich  
Fifth District

September 27, 2007

Dear Client:

The following Cities within Los Angeles County have their own Hazardous Material Program and should be contacted regarding hazardous material matters:

EL SEGUNDO FIRE DEPARTMENT  
STEVE TSUMURA  
314 Main Street  
El Segundo, CA 90245  
(310) 524-2242 / FAX (310) 414-0929

SANTA FE SPRINGS FIRE DEPARTMENT  
PUBLIC RECORDS REQUEST  
11300 Greenstone Ave.  
Santa Fe Springs, Ca 90670  
(562) 944-9713 / FAX (562) 941-1817

GLENDALE FIRE DEPARTMENT  
VASKEN DEMIRJIAN  
780 Flower Street  
Glendale, CA 91201  
(818) 548-4030 / FAX (818) 549-9777

VERNON HEALTH  
LEWIS POZZEBON  
4305 Santa Fe Avenue  
Vernon, CA 90058  
(323) 583-8811 x229 / FAX (323) 588-4320

LONG BEACH HEALTH DEPARTMENT  
NELSON KERR  
2525 Grand Avenue  
Long Beach, CA 90815  
(562) 570-4131, FAX (562) 570-4038

Should you have any questions regarding this, please do not hesitate to call us at (323) 890-7806.

Sincerely,

ROBERT SMITH, Deputy Health Officer  
Public Health Investigation  
Custodian of Records

yc  
H-3470.07

12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234  
Phone: (972) 247-7229  
Fax: (972) 247-7810



# Fax

To:	Custodian of Records	From:	Karen Harvey
Company:	LA County Public Health Investigation Department	Project:	Los Feliz/150-1421
Fax:	(323)728-0217	Date:	September 25, 2007
Phone:	(323)890-7806	Pages:	1
Re:	Open Records Request	CC:	

Urgent    For Review    Please Comment    Please Reply    Please Recycle

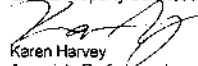
QORE Property Sciences (QORE) is currently performing a Phase I Environmental Site Assessment at the following addresses:

435 to 485 West Los Feliz Road (odd numbers) and  
434 to 450 Fernando Court (even numbers)  
Glendale, California 91204

QORE Property Sciences is currently conducting a Phase I Environmental Site Assessment of the above referenced subject property. Your assistance and file information for this address is requested to identify potential sources of environmental concern that may have occurred. Such information may consist of fuel or chemical storage activities, hazardous material responses, spills, and/or releases or observations noted during routine inspections.

QORE appreciates your help with this project. Please contact Ms. Karen Harvey by telephone at 972-247-7229 or 972-522-8048, via email at [kharvey@qore.net](mailto:kharvey@qore.net), or via facsimile at 972-247-7810 with any questions or comments regarding this inquiry. Thank you for your time.

Sincerely,  
QORE Property Sciences

  
Karen Harvey  
Associate Professional -  
Environmental Services



Linda S. Adams  
Secretary for  
Environmental Protection



## Department of Toxic Substances Control

Maureen F. Gorsen, Director  
1011 North Grandview Avenue  
Glendale, California 91201



Arnold Schwarzenegger  
Governor

September 27, 2007

Ms. Karen Harvey, Associate Professional-Environmental Services  
QORE Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234

VARIOUS SITES  
PR30926077

Dear Ms. Harvey:

We have received your Public Records Act Request for records from the Department of Toxic Substances Control.

After a thorough review of our files we have found that no such records exist at this office pertaining to the sites/facilities referenced below.

- 435 – 485 West Los Feliz Road (odd numbers) in Glendale, CA 91204
- 435 – 450 Fernando Court (even numbers) in Glendale, CA 91204

We would like to inform you about Envirostor, a database that provides information and documents on over 5,000 DTSC cleanup sites. EnviroStor can be accessed at: <http://www.envirostor.dtsc.ca.gov/public>. Also, a computer is available in the Central Files of each DTSC Regional Office for use by community members to view EnviroStor.

If you have any questions, would like further information regarding your request or would like an appointment to visit Glendale's Central Files, please contact me at (818) 551-2886.

Sincerely,

  
Jones Barrio/jv  
Regional Records Coordinator



12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234  
972.247.7229  
972.247.7810 Fax



## Fax

To: DTSC File Room From: Karen Harvey  
Fax: (818) 551-2978 Date: September 25, 2007  
Phone: (818) 551-2886 Pages: 1  
Re: Records/Files request CC:

Urgent  For Review  Please Comment  Please Reply  Please Recycle

QORE Property Sciences (QORE) is currently performing a Phase I Environmental Site Assessment of a property located in Marina Del Rey. The subject property addresses include:

435 to 485 West Los Feliz Road (odd numbers) and  
434 to 450 Fernando Court (even numbers)  
Glendale, California 91204

QORE would like to request available file information that may indicate the presence of potential environmental concerns on or adjoining the subject property. This information may include emergency responses to fires, hazardous materials responses, spills, USTs, and/or releases or observations noted during routine inspections.

We appreciate your help with this inquiry. Should you have any questions or comments, we may be contacted by telephone at 972-247-7229 or 972-522-8048, facsimile at 972-247-7810, or email at [kharvey@qore.net](mailto:kharvey@qore.net).

If you have questions, please do not hesitate to call me.

Thank you,

A handwritten signature in black ink, appearing to read "Karen Harvey", is written over a horizontal line.

Karen Harvey  
Associate Professional –  
Environmental Services  
QORE Property Sciences

**Appendix F  
Resumes**

**RESUME**  
**Karen L. Harvey**  
**ASSOCIATE PROFESSIONAL**

**Education:**

Bachelor of Science, *Earth Science Major*, Texas A&M University-Commerce, 2002  
*Environmental Science Minor*, Texas A&M University-Commerce, 2002

Master of Science, *Earth Science Major*, Texas A&M University-Commerce, 2005

**Experience:**

Karen Harvey has worked in the environmental industry since 2005. She has performed various projects which have included Phase I environmental site assessments, Phase II subsurface site assessments, subsurface soil and ground-water investigations, and remediation project planning and implementation.

**Professional Registrations / Certifications / Technical Training:**

OSHA 40-Hour Hazardous Waste Operations and Emergency Response Training, 29  
CFR 1910.120

Texas DSHS Asbestos Inspector, License 602807

ASTM Environmental Site Assessments for Commercial Real Estate Certification

**Career Summary:**

Ms. Harvey began her environmental career at Texas A&M University-Commerce as a graduate assistant laboratory instructor for the Biological, Earth, and Environmental Sciences Department. Ms. Harvey's thesis research was entitled "The Impact of Nitrate and Phosphate Runoff on Cooper Lake, Hopkins County, Texas." Ms. Harvey continues her career with QORE Property Sciences located in Dallas, TX.

**Representative Projects:**

Phase I Environmental Site Assessments

Ms. Harvey has evaluated various properties including vacant/undeveloped land, retail centers, office buildings, light industrial facilities, and multifamily residences. Projects have included services relating to lead-based paint, drinking water quality, potential historical impact, wetlands, endangered species, indoor air quality, radon, and regulatory compliance. Responsibilities have included technical oversight, project coordination, and regulatory agency interaction in several states.

Phase II Environmental Site Assessments

Ms. Harvey has been involved with numerous Phase II Environmental Site Assessments on properties that have been identified as potentially impacted by adverse environmental conditions, including dry cleaning solvents and other volatile organic compounds, metals, and petroleum hydrocarbons. These projects included the collection of soil and groundwater samples from the identified sites for laboratory analyses, followed by making recommendations based on comparison of laboratory data to regulatory action limits, contaminants of concern, and extent of contamination.

Site Remediation

Ms. Harvey has been involved with the remediation of a former multi-facility auto-service property, including identification and removal of contaminated soils.

Mold and Indoor-Air Quality

Ms. Harvey has performed numerous on-site visual observations, moisture surveys, biological sampling, and associated data evaluation and reporting.

**RESUME**  
**AMY L. SMITH**  
**SENIOR ENVIRONMENTAL SCIENTIST**

**Education:**

B.S. Microbiology 1984 Texas A & M University

**Experience:**

Ms. Smith has over sixteen years of experience in environmental consulting. During this time she has conducted and managed a broad range of environmental projects on a nationwide basis. Ms. Smith has also been responsible for the technical training, direction, development and management of personnel. The types of projects she has been involved with include; asbestos surveys and analysis; asbestos and lead O&M programs; preparation of stormwater pollution prevention plans (SWPPPs); Phase I and II ESAs; petroleum underground storage tank (UST) assessment and removal; assessment, remediation and closure including projects addressed through the Texas Voluntary Cleanup Program (VCP) and Innocent Owner/Operator Program (IOP). These projects have been conducted on a variety of properties ranging from vacant land to manufacturing and industrial facilities.

**Professional Registrations / Affiliations / Certifications:**

Accredited Asbestos Inspector/Management Planner  
Certified OSHA 40-Hour Hazardous Waste Operations

**Career Summary:**

After graduation Ms. Smith began working for a Dallas laboratory conducting failure analysis and material identification. This included identification of asbestos in building materials using polarizing light microscopy and scanning electron microscopy. In 1987, Ms. Smith established an asbestos laboratory for an asbestos consulting firm and later became the manager of both the laboratory and technical services.

In 1991, Ms. Smith was hired by a national engineering and environmental consulting firm to assist in the laboratory analysis of building materials for asbestos and to conduct ESAs, later becoming the Phase I ESA department manager. In 1995, Ms. Smith was hired by another national consulting firm as a project manager in the environmental group. Ms. Smith was later promoted to the position of resource manager for the environmental, facilities and asbestos departments.

In October 1999, Ms. Smith joined QORE's Dallas office as an environmental principal. Responsibilities at QORE are similar to those conducted for previous consultants. In these various roles, Ms. Smith has been responsible for the technical aspects of environmental projects as well as training, professional development, utilization and supervision of professionals and maintenance of client relationships.

**Representative Projects:**

Phase I Environmental Site Assessments

Conducted, trained and supervised professionals in hundreds of Phase I ESAs. Has been responsible for the project management of institutional clients and their nationwide portfolios as well as technical responsibility for the quality and consistency of reports. Prepared standardized ESA format and accompanying instruction manual for implementation.

Environmental Compliance Assessment

**Oilfield service facilities, OK, CA, AZ** - Managed environmental due-diligence compliance assessments for acquisitions of oil field service facilities in Louisiana, and various commercial facilities in Oklahoma, California and Arizona. These projects included the evaluation of environmental liability and identification of required compliance and facility improvements.

Site Contamination Assessment

Ms. Smith has conducted and/or managed Phase II ESAs on properties identified to have recognized environmental conditions during the completion of Phase I ESAs. These projects have typically included collection of soil and ground-water samples from the site for laboratory analysis. Based on comparison of laboratory data with regulatory action limits, recommendations have been formulated for further sampling, remedial action or no further assessment. Some examples of these projects include:

A pre-foreclosure Phase I ESA on a metal storage rack manufacturer identified recognized environmental conditions including improper storage of hazardous waste, buried debris and potential releases of solvents from an onsite paint booth. Conducted Phase II subsurface investigation that identified buried debris as well as solvent impact to soil and ground water. Based on findings the bank did not foreclose on the site.

Conducted Phase II subsurface investigation to assess potential landfilled areas and impact to the subject property from historic onsite and adjacent gasoline service stations. Excavated test pits that confirmed the presence of buried debris. Due to the presence of this debris a portion of the site was considered to be a regulated landfill that restricted future development.

Managed numerous Phase II subsurface investigations in Texas, California, Florida, Georgia, Maryland and North Carolina to detect the potential presence of soil or ground-water contamination from onsite and off site potential environmental concerns. Assessments were conducted associated with concerns associated with metals, herbicides and pesticides, USTs and volatile organic compounds from on-site and off-site activities. For some properties, interacted with state agencies to obtain concurrence that no further assessment was warranted. Consulted with client to assess potential risk associated with properties.

Underground Storage Tank Removals

**Commercial building, Ft. Worth, TX** - Observed the removal of two gasoline USTs, the scope of services included interaction with regulatory agencies to facilitate the removal of the tanks, coordination with the tank removal contractor, over excavation of impacted soil and performance of confirmatory soil sampling and laboratory analysis. A release impacting soil and ground water was identified. The project resulted in the determination of the extent and degree of contamination, and a demonstration supporting no additional corrective action was warranted and closure was obtained using a Plan B Risk Assessment.

**Urban "brownfield" redevelopment, Dallas, TX** - During the course of extensive sampling and analysis of soil and groundwater multiple former USTs and petroleum contamination were identified in soil and groundwater. Ms. Smith managed coordinated removal and closure assessment of these former UST systems. A total of approximately 1,500 cubic yards of impacted soil was excavated, with roughly 75% being retained for on-site land-based treatment. Two de-watering / ground-water recovery systems (one per area)

were installed and operated for a period of several months to remove and treat ground water prior to discharging into the storm sewer system. Post-work sampling and analysis supported achievement of a VCP Certificate for the excavated area. Additional Plan B risk assessment, combined with future land use restrictions of the other area supported a state UST closure (No Further Action) determination.

#### Voluntary Cleanup Programs

Ms. Smith has been the Project Manager and provided technical support for over a dozen properties that have been accepted into the TNRCC VCP and IOP. Some examples of these projects include:

**Urban “brownfield” redevelopment, Ft. Worth, TX** - Conducted soil and ground-water sampling and analysis at a large inner-city tract of land, portions of which were historically utilized as retail service station, bulk fuel oil storage and wholesale, a rail yard, a fleet automotive repair and maintenance facility, and an ice manufacturer. Major aspects of this project included the assessment and removal of leaking petroleum storage tanks and the excavation and transportation of 12,000 cubic yards of soil impacted by polyaromatic hydrocarbon to an off site disposal facility. A Certificate of Completion for the site has been obtained.

**Urban “brownfield” redevelopment, Dallas, TX** - Conducted soil and ground-water sampling and analysis on an inner-city tract of land previously occupied by residences, a morgue, a retail facility and an appliance repair facility. On-site soils were impacted by heavy metals. Ground water was demonstrated to have been impacted by a large plume emanating from a historical dry cleaning plant located approximately ¼ mile from the site. Obtained an IOP certificate for the ground-water impact, received No Further Action letter supportive of multi-family residential occupancy for heavy metal impact to soil.

#### Stormwater Pollution Prevention Plans

**U.S. Postal Service, AR, OK, TX** - Acted as the project manager and as a member of the survey team in the completion of 40 SWPPPs for vehicle maintenance facilities. The project included performing on site compliance evaluations, providing recommendations to address areas of non-compliance, development of Best Management Practices (BMPs), and providing assistance with implementation of the plans. Provided plans and training so that client personnel could implement monitoring and plans with minimal consultant support.

Texas Cable manufacturer - Provided technical support for preparation of SWPPPs for two manufacturing facilities. Provided plans and training so that client personnel could implement plans with minimal consultant support.

#### Asbestos Consulting Services

Ms. Smith has conducted numerous AHERA and limited asbestos surveys on schools as well as commercial properties and prepared asbestos O&M programs. She has managed multiple projects that involved comprehensive asbestos surveys and asbestos abatement followed by building demolition. She has conducted and routinely manages air monitoring and contractor observation / site documentation for asbestos abatement projects. Some examples of these and related projects include:

**Garland ISD, TX** - Preparation of over 65 O&M programs for schools and their supporting and instructional facilities.

**Urban redevelopment, Dallas, TX** - Managed a project that included comprehensive asbestos surveys, abatement and demolition of over 38 residential structures and three commercial structures.

**Urban redevelopment, Dallas, TX** - Managed comprehensive asbestos surveys, abatement and demolition of six residential structures and two commercial structures.

**Office building, Dallas, TX** - Coordinated and conducted air monitoring and contractor observation/site documentation for a six month O&M program for a 26 story, occupied, commercial building. Site activities included contractor installation of telephone lines and computer cables, and HVAC ducting adjustments in areas that contained ACM. This project also included small scale short duration asbestos abatement in damaged areas or areas that required significant disturbance of ACMs.

**Historic Urban Hotel, Dallas, TX** - Conducted air monitoring, and contractor observation/site documentation during various asbestos abatement projects including the main ball room of a hotel in downtown Dallas, various tenant spaces within a mall, the common area of an office building/shopping mall.

#### Mold and Indoor-Air Quality

Together with outside counsel and in-house technical staff, Ms. Smith assisted in preparation of a mold and moisture guidance document and policy manual. She assisted in the preparation of these documents which have been implemented as statement of policy by a realty advisor for U.S. properties owned by over a dozen institutional investors. Prepared field worksheets for classification and remedy selection by on-site personnel. Subsequently revised document to meet multiple applications and worked with client to adapt policy to a slimmed-down, more user-friendly document for field use.

She has prepared training outlines and presented short seminars to client staff to assist in their implementation of these policies. These procedures are also adapted to pre-acquisition due diligence, and are applied when tenant complaints are identified, and where mold or unusual moisture conditions are found to require corrective action. She has guided the development of response actions, prepared work procedures, provided oversight and post-job documentation for dozens of such projects for owners, managers, and their insurers.

Supervised the preparation of a mold and moisture assessment guidance document implemented as statement of policy by a nationwide developer and operator of luxury apartments and student housing. Conduct periodic training for in-house client personnel to support uniform implementation of company policy.

Managed multiple Phase I ESAs incorporating limited, pre-acquisition mold and moisture assessments for various institutional investors and conservative developers.

**Student Housing project, CA** – QORE was engaged by our developer client to review a pre-acquisition mold assessment conducted by potential buyer of non-air conditioned renovated property. That assessment was based on mixed samples of total spores and fragments in air and non-quantified surface sample results with no benchmark comparisons. Amy crafted a scope of work for establishment of baseline (outdoor reference) conditions to form the basis for an objective evaluation of viable indoor bioaerosols by standard methods and procedures. The results of this assessment demonstrated that indoor conditions conformed with baseline conditions as established from outdoor air. Buyer and seller were satisfied with this objective assessment of conditions and executed the transaction with minimal delay.

**Multi-Family property, Dallas, TX** Supervised the assessment of a multi-family residential property in which tenants had complained of mold growth and unusual moisture conditions within their living unit. Prepared and coordinated contractor removal of affected materials and provided extensive assessment, including biological testing as confirmation of successful completion of work. Conveyed factual assessment information and relayed QORE's opinion to tenants on behalf of client / owner.

**Multi-Family property, Atlanta, GA** - Planned and supervised mold and moisture assessment of ground-level apartment units with substantial water damage and heavy mold growth. Identified areas of abnormal water entry along an upslope crawlspace requiring an engineered control. Expanded assessment to include a NESHAP asbestos survey prior to mold abatement. Prepared specifications and provided contractor monitoring, oversight, administration, and confirmation asbestos testing. Property manager's mis-diagnosis of limited points of water entry allowed project to be expanded to expose additional areas requiring permanent prevention of water entry.

## **Appendix G Asbestos Analytical Results And Laboratory Documentation**

**LIMITED ASBESTOS TESTING, OFFICE/WAREHOUSE BUILDINGS  
LOS FELIZ ROAD and FERNANDO COURT, GLENDALE, CA**

Sample ID	Material Description	Friable	Condition	Quantity	Asbestos Content	Sample Location
01-1	Drywall	No	Fair	Throughout	None Detected	Building 4, main large room, north wall, west of exit door
02-1	Joint Compound and Tape	No	Fair	Throughout	None Detected	Building 4, main large room, north wall, corner west of exit
03-1a	Gray Mottled 12" Floor Tile	No	Good	3,025 Square Feet	None Detected	Building 4, east office area, center
03-1b	Glue Below Gray Mottled 12" Floor Tile	No	Good	3,025 Square Feet	None Detected	Building 4, east office area, center
04-1	Drywall	No	Fair	Throughout	None Detected	Building 1, southeast corner room, south wall, by east entrance
05-1	Joint Compound and Tape	No	Fair	Throughout	None Detected	Building 1, southeast corner room, south wall, by east entrance or office
06-1	Wall Plaster	No	Good	1,000-Square Feet	None Detected	Building 1, southeast corner room, south wall, center
07-1a	Tan 12" Square Pattern Linoleum Flooring	No	Good	50 SF	None Detected	Building 1, mezzanine, bathroom, by commode
07-1b	Fiber Backing Below Tan 12" Square Pattern Linoleum Flooring	Yes	Good	50 SF	None Detected	Building 1, mezzanine, bathroom, by commode
08-1a	Tan 2" Square Pattern Linoleum Flooring	No	Good	100 SF	None Detected	Building 1, mezzanine, bathroom, along center of east wall
08-1b	Fiber Backing Below Tan 2" Square Pattern Linoleum Flooring	Yes	Good	100 SF	None Detected	Building 1, mezzanine, bathroom, along center of east wall
09-1	Wall and Ceiling Textured Paint	No	Good	Throughout Office Area	None Detected	Building 1, central offices, east office, west wall, south end
10-1	Covebase and Mastic	No	Good	Throughout	None Detected	Building 1, central offices, hallway, northeast corner
11-1a	Wood Pattern Linoleum Flooring	No	Good	400 SF	None Detected	Building 1, south offices by loading dock, center
11-1b	Fiber Backing Below Wood Pattern Linoleum Flooring	Yes	Good	400 SF	None Detected	Building 1, south offices by loading dock, center
12-1a	Beige 9" Floor Tile	No	Good	900 SF	5% Chrysotile	Building 1, north office by loading dock, southwest corner
12-1b	Mastic Below Beige 9" Floor Tile	No	Good	900 SF	10% Chrysotile	Building 1, north office by loading dock, southwest corner
13-1	Wall and Ceiling Tile Glue Dots	No	Good	700 SF	None Detected	Building 1, north office by loading dock, west wall
14-1	Tan With Blue Streaks 9" Floor Tile	No	Good	50 SF	None Detected	Building 1, bathroom near the northwest corner, hallway, center
15-1a	Orange Mottled Linoleum Flooring	No	Good	150 SF	None Detected	Building 1, by northwest bathroom, hallway, by door
15-1b	Fiber Backing Below Orange Mottled Linoleum	Yes	Good	150 SF	45% Chrysotile	Building 1, by northwest bathroom, hallway, by door
16-1a	Tan Mottled 12" Floor Tile	No	Good	250 SF	3% Chrysotile	Building 1, northwest storage room across from bathroom, by north door
16-1b	Mastic Below Tan Mottled 12" Floor Tile	No	Good	250 SF	None Detected	Building 1, northwest storage room across from bathroom, by north door
17-1	Wall and Ceiling Textured Paint	No	Good	1,800 SF	2% Chrysotile	Building 1, north offices, south wall, center
18-1	2'x4' Drop Ceiling Tile With Dots & Fissures	Yes	Poor	800 SF	None Detected	Building 2, center north office, center
19-1	Drywall Joint Compound and Tape	No	Good	Throughout	None Detected	Building 2, center north office, southwest corner
20-1	Drywall Joint Compound and Tape	No	Good	Throughout	None Detected	Building 3, northwest corner of woman's bathroom

**PLM Summary Report**

Steve Moody Micro Services, Inc. 2051 Valley View Lane Farmers Branch, TX 75234 (Phone 972-241-8460)		NVLAP Lab No. 102056 TDH License No. 30-0084
Client :	QORE Property Sciences - Farmers Branch, TX	Lab Job No. : x7B-09992
Project :	Limited ACM Testing	Report Date : 10/01/2007
Project # :	150-1421	Sample Date : 09/28/2007
Identification :	Asbestos, Bulk Sample Analysis	
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116	
Page 1 of 2		
On 10/1/2007, twenty (20) bulk material samples were submitted by a representative of QORE Property Sciences - Farmers Branch, TX for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:		
Sample Number	Client Sample Description / Location	Asbestos Content
01-1	Drywall	None Detected - Bottom Plaster None Detected - Top Plaster
02-1	Drywall Joint Compound and Tape	None Detected - Joint Compound
03-1	Floor Tile and Glue	None Detected - Floor Tile None Detected - Yellow Mastic
04-1	Drywall	None Detected - Drywall Material
05-1	Joint Compound and Tape	None Detected - Drywall Material None Detected - Joint Compound
06-1	Plaster	None Detected - Plaster
07-1	Linoleum	None Detected - Sheet Flooring None Detected - Fiber Backing
08-1	Linoleum	None Detected - Sheet Flooring None Detected - Fiber Backing
09-1	Texture	None Detected - Texture
10-1	Cove Base and Mastic	None Detected - Cove Base None Detected - Cream Mastic
11-1	Linoleum	None Detected - Sheet Flooring None Detected - Fiber Backing
12-1	Floor Tile and Mastic	5% Chrysotile - Floor Tile 10% Chrysotile - Black Mastic
13-1	Glue Dots	None Detected - Brown Mastic
14-1	Floor Tile and Glue	None Detected - Floor Tile Insufficient Mastic
15-1	Linoleum	None Detected - Sheet Flooring 45% Chrysotile - Fiber Backing
16-1	Floor Tile and Mastic	3% Chrysotile - Floor Tile None Detected - Black Mastic

**PLM Summary Report**

Steve Moody Micro Services, Inc. NVLAP Lab No. 102056  
 2051 Valley View Lane TDH License No. 30-0084  
 Farmers Branch, TX 75234 (Phone 972-241-8460)

Client : QORE Property Sciences - Farmers Branch, TX Lab Job No. : x7B-09992  
 Project : Limited ACM Testing Report Date : 10/01/2007  
 Project # : 150-1421 Sample Date : 09/28/2007  
 Identification : Asbestos, Bulk Sample Analysis  
 Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS)  
 EPA Method 600 / R-93 / 116 Page 2 of 2

On 10/1/2007, twenty (20) bulk material samples were submitted by a representative of QORE Property Sciences - Farmers Branch, TX for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
17-1	Texture	None Detected - Drywall Material 2% Chrysotile - Old Texture None Detected - New Texture
18-1	Ceiling Tile	None Detected - Acoustic Tile
19-1	Joint Compound and Tape	None Detected - Joint Compound
20-1	Joint Compound and Tape	None Detected - Joint Compound

These samples were analyzed by layers. Quantification, unless otherwise noted, is performed by calibrated visual estimate. Results may not be reproduced except in full. This test report relates only to the samples tested. These test results do not imply endorsement by NVLAP or any agency of the U.S. Government. Accredited by the National Voluntary Laboratory Accreditation Program for Bulk Asbestos Fiber Analysis under Lab Code 102056.



Analyst(s): Heather Deines  
 Lab Manager : Bruce Crabb Approved Signatory : *Bruce Crabb*  
 Lab Director : Steve Moody Approved Signatory : *Steve Moody*  
 Thank you for choosing Steve Moody Micro Services

**PLM Detail Report**

Steve Moody Micro Services, Inc. TDH License No. 30-0084  
 2051 Valley View Lane NVLAP Lab No. 102056  
 Farmers Branch, TX 75234 Supplement to PLM Summary Report

Client : QORE Property Sciences - Farmers Branch, TX Lab Job No. : x7B-09992  
 Project : Limited ACM Testing Report Date : 10/01/2007  
 Project # : 150-1421

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
01-1	Bottom Plaster (Off-White)	50%	Aggregate	65%	10/01	HD
	Top Plaster (White)	50%	Calcite / Binders	35%		
			Pumice	65%		
			Calcite / Binders	35%		
02-1	Joint Compound (White)	100%	Calcite / Talc / Binders	100%	10/01	HD
03-1	Floor Tile (Light Tan)	80%	Calcite / Vinyl Binders	100%	10/01	HD
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
	Leveling Compound (Off-White)	15%	Calcite / Binders	100%		
04-1	Drywall Material (White)	95%	Cellulose Fibers	2%	10/01	HD
	DW Paper Facing (Tan)	5%	Gypsum / Binders	98%		
05-1			Cellulose Fibers	100%		
	Drywall Material (White)	55%	Gypsum / Binders	95%	10/01	HD
	DW Paper Facing (Tan)	35%	Cellulose Fibers	100%		
Joint Compound (Orange)	10%	Binders / Fillers	100%			
06-1	Plaster (White)	100%	Cellulose Fibers	5%	10/01	HD
			Gypsum / Binders	95%		
07-1	Sheet Flooring (Off-White)	50%	Synthetic Foam	70%	10/01	HD
	Fiber Backing (Light Grey)	50%	Vinyl Binders	30%		
08-1	Sheet Flooring (Off-White)	50%	Cellulose Fibers	50%	10/01	HD
			Glass Wool Fibers	5%		
			Binders / Fillers	45%		
			Vinyl Binders	30%		
09-1	Texture (White)	100%	Cellulose Fibers	50%	10/01	HD
			Glass Wool Fibers	5%		
			Binders / Fillers	45%		

Steve Moody Micro Services, Inc. **PLM Detail Report** TDH License No. 30-0084  
 2051 Valley View Lane **Supplement to PLM Summary Report** NVLAP Lab No. 102056  
 Farmers Branch, TX 75234

Client : QORE Property Sciences - Farmers Branch, TX Lab Job No. : x7B-09992  
 Project : Limited ACM Testing Report Date : 10/01/2007  
 Project # : 150-1421

Page 2 of 3

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
10-1	Cove Base (Blue)	95%	Calcite / Vinyl Binders	100%	10/01	HD
	Cream Mastic (Cream)	5%	Calcite	50%		
			Glue Binders	50%		
11-1	Sheet Flooring (Brown)	50%	Synthetic Foam	70%	10/01	HD
			Vinyl Binders	30%		
	Fiber Backing (Light Grey)	50%	Cellulose Fibers	50%		
			Glass Wool Fibers	5%		
			Binders / Fillers	45%		
12-1	Floor Tile (Beige)	97%	Chrysotile	5%	10/01	HD
			Calcite / Vinyl Binders	95%		
	Black Mastic (Black)	3%	Chrysotile	10%		
			Tar Binders	90%		
13-1	Brown Mastic (Brown)	100%	Glue Binders	100%	10/01	HD
14-1	Floor Tile (Light Beige) Insufficient Mastic	100%	Calcite / Vinyl Binders	100%	10/01	HD
15-1	Sheet Flooring (Tan / Orange)	50%	Calcite / Vinyl Binders	100%	10/01	HD
	Fiber Backing (Light Grey)	50%	Chrysotile	45%		
			Cellulose Fibers	30%		
			Binders / Fillers	25%		
16-1	Floor Tile (Tan)	98%	Chrysotile	3%	10/01	HD
			Calcite / Vinyl Binders	97%		
	Black Mastic (Black)	2%	Tar Binders	100%		
17-1	Drywall Material (White)	70%	Cellulose Fibers	5%	10/01	HD
			Gypsum / Binders	95%		
	DW Paper Facing (Tan)	10%	Cellulose Fibers	100%		
	Old Texture (White)	10%	Chrysotile	2%		
			Calcite / Talc / Binders	98%		
	New Texture (White)	10%	Calcite / Talc / Binders	100%		

Steve Moody Micro Services, Inc. **PLM Detail Report** TDH License No. 30-0084  
 2051 Valley View Lane **Supplement to PLM Summary Report** NVLAP Lab No. 102056  
 Farmers Branch, TX 75234

Client : QORE Property Sciences - Farmers Branch, TX Lab Job No. : x7B-09992  
 Project : Limited ACM Testing Report Date : 10/01/2007  
 Project # : 150-1421

Page 3 of 3

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
18-1	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	10/01	HD
			Mineral Wool Fibers	30%		
			Perlite	20%		
19-1	Joint Compound (White)	100%	Calcite / Talc / Binders	100%	10/01	HD
20-1	Joint Compound (White)	100%	Calcite / Talc / Binders	100%	10/01	HD



QORE PROPERTY SCIENCES  
 12801 North Stemmons Freeway, Suite 807, Dallas, TX 75234  
 Phone (972) 247-7229, Fax (972) 247-7810

7B-09992

DATE: 9/28/07

CHAIN OF CUSTODY FORM Pym 20

LABORATORY NAME: Steve Moody Micro Services, Inc.  
 STREET: 2051 Valley View Lane  
 CITY, STATE: Farmers Branch, TX  
 ZIP: 75006  
 PHONE NUMBER: 972-241-8460  
 ATTN: PLM Lab Manager

PROJECT NAME: LIMITED ACM TESTING

PROJECT NUMBER: 150-1421

TURNAROUND: NORMAL

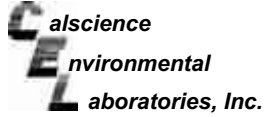
MATRIX:  Asbestos Bulk  Asbestos Air  Aqueous  Lead Air  Lead Dust Wipe  Lead Paint Chip  
 Product  Soil  Sludge  Other:

SAMPLE DATE: 9/28/07 SAMPLE TIME: PM 1PM SAMPLE MATRIX: X GRAB  COMPOSITE  
 SAMPLE PRESERVATION:  None  Ice  HCl  HNO₃  H₂SO₄  NaOH  Other:

FIELD SAMPLE ID NUMBER	LAB #	# BAGS	CONTENTS	ANALYSIS REQUESTED
01-1		1	DAY WALL (DW)	<input checked="" type="checkbox"/> ASBESTOS PLM-DS
02-1		1	DW JOINT COMP. + TAPE (JC+T)	<input type="checkbox"/> ASBESTOS PCM
03-1		1	FL. OR TILE + GLUE (F.T. + G)	<input type="checkbox"/> ASBESTOS TEM
04-1		1	DW	<input type="checkbox"/> ONLY ANALYZED TO FIRST POSITIVE
05-1		1	JC+T	
06-1		1	PLASTER	<input type="checkbox"/> FAA LEAD <input type="checkbox"/> TCLP LEAD
07-1		1	LINOLEUM	
08-1		1	LINOLEUM	<input type="checkbox"/> BTEX <input type="checkbox"/> BTEX and MTBE
09-1		1	TEXTURE	<input type="checkbox"/> GRO <input type="checkbox"/> DRO <input type="checkbox"/> TPH
10-1		1	COVEROSE + MORTAR	<input type="checkbox"/> OIL AND GREASE
11-1		1	LINOLEUM	<input type="checkbox"/> PCB's <input type="checkbox"/> PAH (GC, GC/MS)
12-1		1	F.T. + MORTAR	
13-1		1	GLUE DOTS	<input type="checkbox"/> PESTICIDES <input type="checkbox"/> HERBICIDES
14-1		1	F.T. + G	
15-1		1	LINOLEUM	<input type="checkbox"/> TCLP FOR:
16-1		1	F.T. + MORTAR	<input type="checkbox"/> RCRA METALS <input type="checkbox"/> OTHER METALS:
17-1		1	TEXTURE	
18-1		1	CEILING TILE	<input type="checkbox"/> REACTIVITY <input type="checkbox"/> CORROSIVITY
19-1		1	JC+T	<input type="checkbox"/> IGNITABILITY <input type="checkbox"/> FLASH POINT
20-1		1	JL+T	<input type="checkbox"/> OTHER:

Appendix H  
 Groundwater Analysis  
 Laboratory Documentation

SAMPLED BY: X. HOGANOWSKI	METHOD OF Fed-X	REMARKS: Please e-mail results to Doug at doug@PhaseOneESA.com			
	SHIPMENT 2062-61874	DATE:	TIME:	RECEIVED BY: (Sign) <i>Douglas Fedek</i>	DATE: 10-1-07
RELINQUISHED BY: (Sign) <i>[Signature]</i>	DATE:	TIME:	RECEIVED BY: (Sign)	DATE:	TIME: 8:45A
RELINQUISHED BY: (Sign)	DATE:	TIME:	RECEIVED BY: (Sign)	DATE:	TIME:



October 26, 2007

Karen Harvey  
Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Subject: **Calscience Work Order No.: 07-10-1857**  
**Client Reference: 465 Los Feliz**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/25/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental  
Laboratories, Inc.  
Virendra Patel  
Project Manager

Analytical Report

Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710  
Date Received: 10/25/07  
Work Order No: 07-10-1857  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: 465 Los Feliz Page 1 of 1

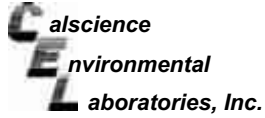
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-3 Water	07-10-1857-8	10/25/07	Aqueous	GC 23	10/25/07	10/26/07	071026B02

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	250	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	98	68-140			

Method Blank	099-12-234-156	N/A	Aqueous	GC 23	10/25/07	10/26/07	071026B02
--------------	----------------	-----	---------	-------	----------	----------	-----------

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	250	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	104	68-140			

RL - Reporting Limit . . . DF - Dilution Factor . . . Qual - Qualifiers



Analytical Report



Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: 10/25/07  
Work Order No: 07-10-1857  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: 465 Los Feliz

Page 1 of 1

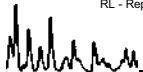
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-3 Water	07-10-1857-8	10/25/07	Aqueous	GC 23	10/25/07	10/26/07	071026B01

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	64	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	98	68-140			

Method Blank	099-12-330-410	N/A	Aqueous	GC 23	10/25/07	10/26/07	071026B01
--------------	----------------	-----	---------	-------	----------	----------	-----------

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	104	68-140			

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers



Analytical Report



Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: 10/25/07  
Work Order No: 07-10-1857  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: 465 Los Feliz

Page 1 of 1

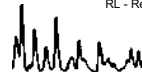
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-3 Water	07-10-1857-8	10/25/07	Aqueous	GC 18	10/25/07	10/25/07	071025B01

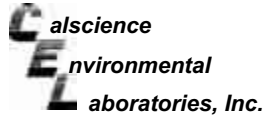
Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	89	38-134			

Method Blank	099-12-436-1,061	N/A	Aqueous	GC 18	10/25/07	10/25/07	071025B01
--------------	------------------	-----	---------	-------	----------	----------	-----------

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	90	38-134			

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers





Analytical Report



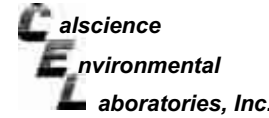
Qore Property Sciences
12801 Stemmons Freeway, Suite 807
Dallas, TX 75234-6710

Date Received: 10/25/07
Work Order No: 07-10-1857
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: 465 Los Feliz

Page 1 of 2

Table with columns: Client Sample Number, Lab Sample Number, Date Collected, Matrix, Instrument, Date Prepared, Date Analyzed, QC Batch ID. Data for MW-3 Water sample on 10/25/07.



Analytical Report



Qore Property Sciences
12801 Stemmons Freeway, Suite 807
Dallas, TX 75234-6710

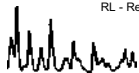
Date Received: 10/25/07
Work Order No: 07-10-1857
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: 465 Los Feliz

Page 2 of 2

Table with columns: Client Sample Number, Lab Sample Number, Date Collected, Matrix, Instrument, Date Prepared, Date Analyzed, QC Batch ID. Data for Method Blank sample on 099-10-006-23,230.

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers

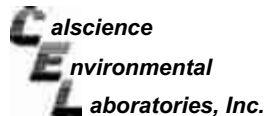


7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Quality Control - Spike/Spike Duplicate



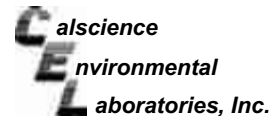
Core Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: 10/25/07  
Work Order No: 07-10-1857  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project 465 Los Feliz

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-10-1797-1	Aqueous	GC 18	10/25/07	10/25/07	071025S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	83	100	68-122	18	0-18	



Quality Control - Spike/Spike Duplicate



Core Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: 10/25/07  
Work Order No: 07-10-1857  
Preparation: EPA 5030B  
Method: EPA 8260B

Project 465 Los Feliz

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-10-1716-2	Aqueous	GC/MS T	10/25/07	10/25/07	071025S01

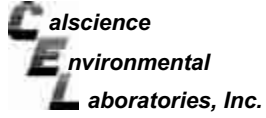
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	101	88-118	0	0-7	
Carbon Tetrachloride	99	96	67-145	4	0-11	
Chlorobenzene	102	102	88-118	0	0-7	
1,2-Dibromoethane	95	92	70-130	3	0-30	
1,2-Dichlorobenzene	103	101	86-116	1	0-8	
1,1-Dichloroethene	94	94	70-130	0	0-25	
Ethylbenzene	105	102	70-130	3	0-30	
Toluene	103	101	87-123	2	0-8	
Trichloroethene	98	96	79-127	2	0-10	
Vinyl Chloride	77	75	69-129	2	0-13	
Methyl-t-Butyl Ether (MTBE)	93	89	71-131	4	0-13	
Tert-Butyl Alcohol (TBA)	100	110	36-168	9	0-45	
Diisopropyl Ether (DIPE)	96	97	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	93	84	72-126	10	0-12	
Tert-Amyl-Methyl Ether (TAME)	94	85	72-126	10	0-12	
Ethanol	102	115	53-149	12	0-31	

RPD - Relative Percent Difference, CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

RPD - Relative Percent Difference, CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Quality Control - LCS/LCS Duplicate



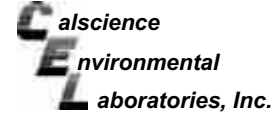
Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: N/A  
Work Order No: 07-10-1857  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: 465 Los Feliz

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-234-156	Aqueous	GC 23	10/25/07	10/26/07	071026B02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	107	109	75-117	2	0-13	



Quality Control - LCS/LCS Duplicate



Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: N/A  
Work Order No: 07-10-1857  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: 465 Los Feliz

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-330-410	Aqueous	GC 23	10/25/07	10/26/07	071026B01

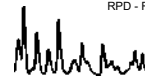
Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	115	110	75-117	4	0-13	

RPD - Relative Percent Difference, CL - Control Limit

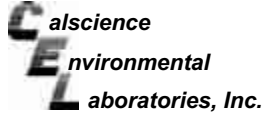


7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

RPD - Relative Percent Difference, CL - Control Limit



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Quality Control - LCS/LCS Duplicate



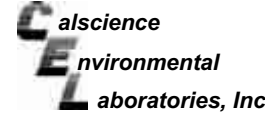
Core Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: N/A  
Work Order No: 07-10-1857  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: 465 Los Feliz

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-436-1,061	Aqueous	GC 18	10/25/07	10/25/07	071025B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	94	100	78-120	6	0-10	



Quality Control - LCS/LCS Duplicate



Core Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: N/A  
Work Order No: 07-10-1857  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: 465 Los Feliz

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-23,230	Aqueous	GC/MS T	10/25/07	10/25/07	071025L01

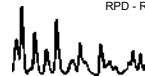
Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	99	84-120	0	0-8	
Carbon Tetrachloride	95	95	63-147	0	0-10	
Chlorobenzene	104	102	89-119	1	0-7	
1,2-Dibromoethane	93	95	80-120	3	0-20	
1,2-Dichlorobenzene	102	103	89-119	1	0-9	
1,1-Dichloroethene	95	95	77-125	0	0-16	
Ethylbenzene	103	103	80-120	1	0-20	
Toluene	101	103	83-125	2	0-9	
Trichloroethene	97	96	89-119	0	0-8	
Vinyl Chloride	75	76	63-135	2	0-13	
Methyl-t-Butyl Ether (MTBE)	90	93	82-118	3	0-13	
Tert-Butyl Alcohol (TBA)	105	101	46-154	4	0-32	
Diisopropyl Ether (DIPE)	96	96	81-123	0	0-11	
Ethyl-t-Butyl Ether (ETBE)	87	92	74-122	7	0-12	
Tert-Amyl-Methyl Ether (TAME)	86	95	76-124	9	0-10	
Ethanol	116	106	60-138	9	0-32	

RPD - Relative Percent Difference, CL - Control Limit



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

RPD - Relative Percent Difference, CL - Control Limit



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.



**Calscience Environmental Laboratories, Inc.**

SoCal Laboratory  
140 Lincoln Way  
Garden Grove, CA 92841-1427  
(714) 895-5494

NorCal Service Center  
1065 Central Expressway, Suite H  
Costa Mesa, CA 92626-8517  
(925) 899-9022

**CHAIN OF CUSTODY RECORD**

Date: 10/25/07  
Page: 1 of 1

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COLETTED)	SAMPLING DATE	TIME	NO OF MATRIX CONT	TPH (g)	TPH (l) or (C7-C9S) or (C7-C44)	BTEX / MTBE (g/g)	VOCs (g/g)	VOCs + Oxy (g/g)	Encore Prep (g/g)	SVOCs (g/g)	Pesticides (g/g)	PNAs (g/g)	T22 Metals (g/g)	Cr(VI) (g/g)	VOCs (TO-14A) or (TO-15)	TPH (g) (TO-3)
	M10-4 3-4'		10/25	07:30	5													
	M10-4 13-14'			07:50														
	M10-4 28' b-24' b			08:10														
	M10-4 39-40'			08:40														
	M10-1 3-4'			12:20		X	X											
	M10-1 12-13'			12:15		X	X											
	M10-1 22-23'			13:05		X	X											
	M10-3 water			13:50	16.0	X	X											

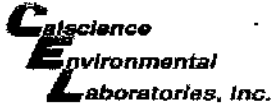
Soil samples on hold pending GW analysis

Requested Analyses:  
 TPH (g) (TO-3)  
 VOCs (TO-14A) or (TO-15)  
 Cr(VI) (7195A or 7199 or 218 B)  
 T22 Metals (60106/747X)  
 PNAs (8310) or (8270C)  
 PCBs (8082)  
 Pesticides (8181A)  
 SVOCs (8270C)  
 Encore Prep (5035)  
 VOCs + Oxy (8250B)  
 VOCs (8260B)  
 BTEX / MTBE (8260B)  
 TPH (l) or (C7-C9S) or (C7-C44)

Received by: (Signature/Affiliation) *DEL*  
 Received by: (Signature/Affiliation) *Max Murphy*  
 Received by: (Signature/Affiliation) *Max Murphy*

Date: 10/25/07  
 Date: 10/23/07  
 Date: 11/15





WORK ORDER #: 07 - 10 - 1857

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: QORG

DATE: 10/25/07

**TEMPERATURE - SAMPLES RECEIVED BY:**

<b>CALSCIENCE COURIER:</b>	<b>LABORATORY (Other than Calscience Courier):</b>
<input type="checkbox"/> Chilled, cooler with temperature blank provided.	<input type="checkbox"/> °C Temperature blank.
<input type="checkbox"/> Chilled, cooler without temperature blank.	<input type="checkbox"/> °C IR thermometer.
<input checked="" type="checkbox"/> Chilled and placed in cooler with wet ice.	<input type="checkbox"/> Ambient temperature.
<input type="checkbox"/> Ambient and placed in cooler with wet ice.	
<input type="checkbox"/> Ambient temperature.	

2.1 °C Temperature blank. Initial: *AS*

**CUSTODY SEAL INTACT:**

Sample(s): _____ Cooler: _____ No (Not Intact): _____ Not Present:

Initial: *AS*

**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with custody papers.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on sample label(s).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOA vial(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initial: *AS*

**COMMENTS:**

---



---



---



---



---



October 29, 2007

Karen Harvey  
Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Subject: **Calscience Work Order No.: 07-10-1947**  
**Client Reference: 465 Los Feliz**

Dear Client:

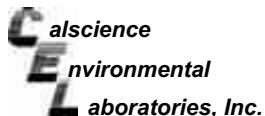
Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/26/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental  
Laboratories, Inc.  
Virendra Patel  
Project Manager



Analytical Report



Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: 10/26/07  
Work Order No: 07-10-1947  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: 465 Los Feliz

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-4 WATER	07-10-1947-2	10/26/07	Aqueous	GC 23	10/27/07	10/29/07	071027B06

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	250	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	115	68-140			

Method Blank	099-12-234-158	N/A	Aqueous	GC 23	10/27/07	10/29/07	071027B06
--------------	----------------	-----	---------	-------	----------	----------	-----------

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	250	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	118	68-140			

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: 10/26/07  
Work Order No: 07-10-1947  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: 465 Los Feliz

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-4 WATER	07-10-1947-2	10/26/07	Aqueous	GC 23	10/27/07	10/29/07	071027B05

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

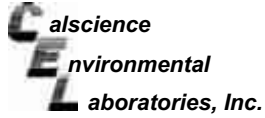
Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	120	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	115	68-140			

Method Blank	099-12-330-415	N/A	Aqueous	GC 23	10/27/07	10/29/07	071027B05
--------------	----------------	-----	---------	-------	----------	----------	-----------

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	118	68-140			

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Analytical Report



Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: 10/26/07  
Work Order No: 07-10-1947  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

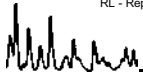
Project: 465 Los Feliz Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-4 WATER	07-10-1947-2	10/26/07	Aqueous	GC 24	10/26/07	10/26/07	071026B03

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	68	50	1		ug/L
<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>	
1,4-Bromofluorobenzene	80	38-134			
<b>Method Blank</b>	<b>099-12-436-1,065</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC 24</b>	<b>10/26/07 10/26/07 071026B03</b>

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>	
1,4-Bromofluorobenzene	81	38-134			

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers



Analytical Report



Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: 10/26/07  
Work Order No: 07-10-1947  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

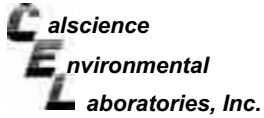
Project: 465 Los Feliz Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-4 WATER	07-10-1947-2	10/26/07	Aqueous	GC/MS T	10/27/07	10/27/07	071027L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	9.5	1.0	1	
Chloroethane	ND	1.0	1		Toluene	24	1.0	1	
Chloroform	1.4	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	2.3	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>	<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>
Dibromofluoromethane	108	74-140			1,2-Dichloroethane-d4	107	74-146		
Toluene-d8	100	88-112			1,4-Bromofluorobenzene	96	74-110		

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers





Analytical Report



Core Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: 10/26/07  
Work Order No: 07-10-1947  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Page 2 of 2

Project: 465 Los Feliz

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-10-006-23,246	N/A	Aqueous	GC/MS T	10/27/07	10/27/07	071027L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	1.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>	<b>Qual</b>	<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>	<b>Qual</b>		
Dibromofluoromethane	112	74-140		1,2-Dichloroethane-d4	113	74-146			
Toluene-d8	100	88-112		1,4-Bromofluorobenzene	98	74-110			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



Core Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

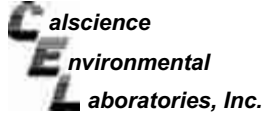
Date Received: 10/26/07  
Work Order No: 07-10-1947  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project 465 Los Feliz

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-10-1939-1	Aqueous	GC 24	10/26/07	10/26/07	071026S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	99	97	68-122	2	0-18	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: 10/26/07  
Work Order No: 07-10-1947  
Preparation: EPA 5030B  
Method: EPA 8260B

Project 465 Los Feliz

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-10-1832-1	Aqueous	GC/MS T	10/27/07	10/27/07	071027S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	100	88-118	0	0-7	
Carbon Tetrachloride	101	101	67-145	0	0-11	
Chlorobenzene	101	103	88-118	2	0-7	
1,2-Dibromoethane	93	100	70-130	7	0-30	
1,2-Dichlorobenzene	103	104	86-116	1	0-8	
1,1-Dichloroethene	94	94	70-130	1	0-25	
Ethylbenzene	101	104	70-130	3	0-30	
Toluene	102	103	87-123	1	0-8	
Trichloroethene	97	97	79-127	1	0-10	
Vinyl Chloride	72	71	69-129	2	0-13	
Methyl-t-Butyl Ether (MTBE)	92	96	71-131	4	0-13	
Tert-Butyl Alcohol (TBA)	117	116	36-168	1	0-45	
Diisopropyl Ether (DIPE)	98	99	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	86	91	72-126	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	86	90	72-126	4	0-12	
Ethanol	116	130	53-149	11	0-31	



Quality Control - LCS/LCS Duplicate



Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: N/A  
Work Order No: 07-10-1947  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: 465 Los Feliz

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-234-158	Aqueous	GC 23	10/27/07	10/29/07	071027B06

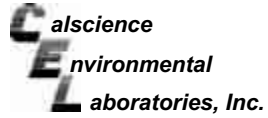
Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	114	106	75-117	7	0-13	

RPD - Relative Percent Difference, CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

RPD - Relative Percent Difference, CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Quality Control - LCS/LCS Duplicate



Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: N/A  
Work Order No: 07-10-1947  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: 465 Los Feliz

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-330-415	Aqueous	GC 23	10/27/07	10/29/07	071027B05

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	96	98	75-117	2	0-13	



Quality Control - LCS/LCS Duplicate



Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: N/A  
Work Order No: 07-10-1947  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: 465 Los Feliz

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-436-1,065	Aqueous	GC 24	10/26/07	10/26/07	071026B03

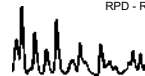
Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	96	97	78-120	1	0-10	

RPD - Relative Percent Difference, CL - Control Limit



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

RPD - Relative Percent Difference, CL - Control Limit



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



## Quality Control - LCS/LCS Duplicate



Core Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: N/A  
Work Order No: 07-10-1947  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: 465 Los Feliz

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-23,246	Aqueous	GC/MS T	10/27/07	10/27/07	071027L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	99	84-120	0	0-8	
Carbon Tetrachloride	101	102	63-147	1	0-10	
Chlorobenzene	104	103	89-119	2	0-7	
1,2-Dibromoethane	101	101	80-120	0	0-20	
1,2-Dichlorobenzene	104	106	89-119	2	0-9	
1,1-Dichloroethene	97	99	77-125	2	0-16	
Ethylbenzene	105	104	80-120	1	0-20	
Toluene	101	101	83-125	0	0-9	
Trichloroethene	99	97	89-119	2	0-8	
Vinyl Chloride	72	76	63-135	6	0-13	
Methyl-t-Butyl Ether (MTBE)	97	98	82-118	1	0-13	
Tert-Butyl Alcohol (TBA)	112	105	46-154	7	0-32	
Diisopropyl Ether (DIPE)	96	96	81-123	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	90	94	74-122	4	0-12	
Tert-Amyl-Methyl Ether (TAME)	93	95	76-124	2	0-10	
Ethanol	110	102	60-138	8	0-32	

RPD - Relative Percent Difference, CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



## Glossary of Terms and Qualifiers



Work Order Number: 07-10-1947

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

**CEL** Calscience Environmental Laboratories, Inc.

Socal Laboratory  
7440 Lincoln Way  
Garden Grove, CA 92841-1427  
(714) 895-5494

Nocal Service Center  
5083 Commercial Circle, Suite H  
Concord, CA 94520-8577  
(925) 589-9022

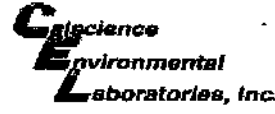
CHAIN OF CUSTODY RECORD

Date: 10/26/07  
Page: 1 of 1

LABORATORY CLIENT		CLIENT PROJECT NAME / NUMBER																			
CORE Property Services		4165 Los Feliz																			
ADDRESS: 2801 N. Stearns Freeway 807		PROJECT CONTACT: Kelly Harvey																			
CITY: Dallas TX		SAMPLER(S) (PRINT): K Harvey																			
TEL: 972-247-7889		E-MAIL: kharvey@corenet.aswith@core.com																			
TURNAROUND TIME: <input checked="" type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 10 DAYS		COELT LOG CODE: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																			
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)		COOLER RECEIPT: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																			
SPECIAL INSTRUCTIONS		TEMP: _____ °C																			
Soil samples on hold pending GW analysis		REQUESTED ANALYSES																			
LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	TIME	MATRIX	NO. OF CONT.	TPH (g) (C7-C9) or (C7-C4)	TPH (water)	6TEX / MTBE (826B)	VOCs + Chys (826B)	VOCs (826B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (81A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (50108/747X)	(Cr(VI)) (7195A) or 7199 or 218 (5)	VOCs (TO-14A) or (TO-15)	TPH (g) (TO-3)	
1	MU-1 39-40'		10/26	0740	S	1	X	X													
2	MU-4 water			0830	W	3	X	X													
3	MU-2 3-4'			1015	S	1	X	X													
4	MU-8 11-12'			1030																	
5	MU-2 21-22'			1050																	
6	MU-2 39-40'			1110																	
7	MU-3 Composite			1510																	
8	MU-4 Composite			1515																	
Relinquished by: (Signature)		Received by: (Signature/Initiation)		Date:		Time:															
Relinquished by: (Signature)		Received by: (Signature/Initiation)		Date:		Time:															
Relinquished by: (Signature)		Received by: (Signature/Initiation)		Date:		Time:															

DISTRIBUTION: White with final report, Green and Yellow to Client. Please note that pages 1 and 2 of our TICs are printed on the reverse side of the green and yellow copies respectively.

05/01/07 Revision



WORK ORDER #: 07 - 10 - 1947  
Cooler 1 of 1

**SAMPLE RECEIPT FORM**

CLIENT: Core DATE: 10/26/07

**TEMPERATURE - SAMPLES RECEIVED BY:**

**CALSCIENCE COURIER:**  
 Chilled, cooler with temperature blank provided. _____ °C Temperature blank.  
 Chilled, cooler without temperature blank. _____ °C IR thermometer.  
 Chilled and placed in cooler with wet ice. _____ Ambient temperature.  
 Ambient and placed in cooler with wet ice.  
 Ambient temperature.

**LABORATORY (Other than Calscience Courier):**  
23 °C Temperature blank. Initial: Am

**CUSTODY SEAL INTACT:**

Sample(s): _____ Cooler: _____ No (Not Intact): _____ Not Present:   
 Initial: Am

**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with custody papers.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on sample label(s).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOA vial(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Initial: Am

**COMMENTS:**

_____

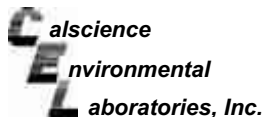
_____

_____

_____

_____





October 30, 2007

Karen Harvey  
 Qore Property Sciences  
 12801 Stemmons Freeway, Suite 807  
 Dallas, TX 75234-6710

Subject: **Calscience Work Order No.: 07-10-1981**  
**Client Reference: 465 Los Feliz**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/27/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental  
 Laboratories, Inc.  
 Virendra Patel  
 Project Manager

Analytical Report

Qore Property Sciences  
 12801 Stemmons Freeway, Suite 807  
 Dallas, TX 75234-6710

Date Received: 10/27/07  
 Work Order No: 07-10-1981  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: 465 Los Feliz Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-1 WATER	07-10-1981-1	10/26/07	Aqueous	GC 23	10/27/07	10/28/07	071027B05

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	250	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	90	68-140			

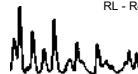
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-2 WATER	07-10-1981-2	10/26/07	Aqueous	GC 23	10/27/07	10/28/07	071027B05

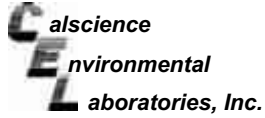
Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	250	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	97	68-140			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-12-234-157	N/A	Aqueous	GC 23	10/27/07	10/28/07	071027B05

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	250	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	117	68-140			

RL - Reporting Limit . . . DF - Dilution Factor . . . Qual - Qualifiers





Analytical Report



Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: 10/27/07  
Work Order No: 07-10-1981  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: 465 Los Feliz

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-1 WATER	07-10-1981-1	10/26/07	Aqueous	GC 23	10/27/07	10/28/07	071027B04

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	90	68-140			

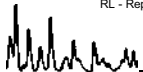
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-2 WATER	07-10-1981-2	10/26/07	Aqueous	GC 23	10/27/07	10/28/07	071027B04

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	97	68-140			

Method Blank	099-12-330-414	N/A	Aqueous	GC 23	10/26/07	10/28/07	071027B04
--------------	----------------	-----	---------	-------	----------	----------	-----------

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	117	68-140			

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers



Analytical Report



Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: 10/27/07  
Work Order No: 07-10-1981  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: 465 Los Feliz

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-1 WATER	07-10-1981-1	10/26/07	Aqueous	GC 11	10/27/07	10/27/07	071027B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	89	38-134			

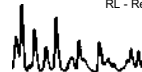
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-2 WATER	07-10-1981-2	10/26/07	Aqueous	GC 11	10/27/07	10/27/07	071027B01

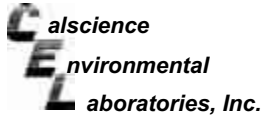
Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	87	38-134			

Method Blank	099-12-436-1,066	N/A	Aqueous	GC 11	10/27/07	10/27/07	071027B01
--------------	------------------	-----	---------	-------	----------	----------	-----------

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	89	38-134			

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers





Analytical Report



Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

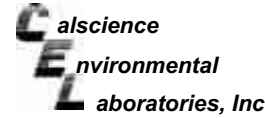
Date Received: 10/27/07  
Work Order No: 07-10-1981  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: 465 Los Feliz

Page 1 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID		
MW-1 WATER	07-10-1981-1	10/26/07	Aqueous	GC/MS T	10/27/07	10/27/07	071027L01		
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	26	1.0	1	
Chloroethane	ND	1.0	1		Toluene	ND	1.0	1	
Chloroform	1.4	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	4.6	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual		
Dibromofluoromethane	111	74-140		1,2-Dichloroethane-d4	114	74-146			
Toluene-d8	101	88-112		1,4-Bromofluorobenzene	96	74-110			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

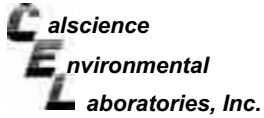
Date Received: 10/27/07  
Work Order No: 07-10-1981  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: 465 Los Feliz

Page 2 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID		
MW-2 WATER	07-10-1981-2	10/26/07	Aqueous	GC/MS T	10/27/07	10/27/07	071027L01		
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	1.2	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	1.2	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	3.7	1.0	1	
Chloroethane	ND	1.0	1		Toluene	6.8	1.0	1	
Chloroform	1.7	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	1.8	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	1.7	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual		
Dibromofluoromethane	109	74-140		1,2-Dichloroethane-d4	113	74-146			
Toluene-d8	101	88-112		1,4-Bromofluorobenzene	97	74-110			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: 10/27/07  
Work Order No: 07-10-1981  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: 465 Los Feliz

Page 3 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID		
Method Blank	099-10-006-23,246	N/A	Aqueous	GC/MS T	10/27/07	10/27/07	071027L01		
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	1.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual		
Dibromofluoromethane	112	74-140		1,2-Dichloroethane-d4	113	74-146			
Toluene-d8	100	88-112		1,4-Bromofluorobenzene	98	74-110			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



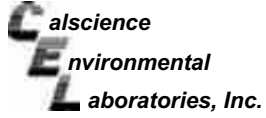
Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: 10/27/07  
Work Order No: 07-10-1981  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project 465 Los Feliz

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number	
MW-1 WATER	Aqueous	GC 11	10/27/07	10/27/07	071027S01	
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	91	95	68-122	4	0-18	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



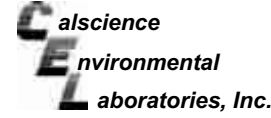
Core Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: 10/27/07  
Work Order No: 07-10-1981  
Preparation: EPA 5030B  
Method: EPA 8260B

Project 465 Los Feliz

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-10-1832-1	Aqueous	GC/MS T	10/27/07	10/27/07	071027S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	100	88-118	0	0-7	
Carbon Tetrachloride	101	101	67-145	0	0-11	
Chlorobenzene	101	103	88-118	2	0-7	
1,2-Dibromoethane	93	100	70-130	7	0-30	
1,2-Dichlorobenzene	103	104	86-116	1	0-8	
1,1-Dichloroethene	94	94	70-130	1	0-25	
Ethylbenzene	101	104	70-130	3	0-30	
Toluene	102	103	87-123	1	0-8	
Trichloroethene	97	97	79-127	1	0-10	
Vinyl Chloride	72	71	69-129	2	0-13	
Methyl-t-Butyl Ether (MTBE)	92	96	71-131	4	0-13	
Tert-Butyl Alcohol (TBA)	117	116	36-168	1	0-45	
Diisopropyl Ether (DIPE)	98	99	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	86	91	72-126	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	86	90	72-126	4	0-12	
Ethanol	116	130	53-149	11	0-31	



Quality Control - LCS/LCS Duplicate



Core Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: N/A  
Work Order No: 07-10-1981  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: 465 Los Feliz

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-234-157	Aqueous	GC 23	10/27/07	10/28/07	071027B05

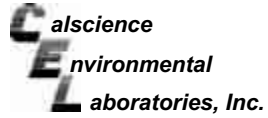
Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	106	108	75-117	2	0-13	

RPD - Relative Percent Difference, CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

RPD - Relative Percent Difference, CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Quality Control - LCS/LCS Duplicate



Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: N/A  
Work Order No: 07-10-1981  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: 465 Los Feliz

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-330-414	Aqueous	GC 23	10/26/07	10/28/07	071027B04

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	116	116	75-117	0	0-13	



Quality Control - LCS/LCS Duplicate



Qore Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: N/A  
Work Order No: 07-10-1981  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: 465 Los Feliz

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-436-1,066	Aqueous	GC 11	10/27/07	10/27/07	071027B01

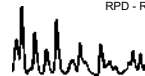
Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	96	96	78-120	0	0-10	

RPD - Relative Percent Difference, CL - Control Limit

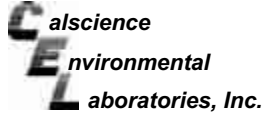


7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

RPD - Relative Percent Difference, CL - Control Limit



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Quality Control - LCS/LCS Duplicate



Core Property Sciences  
12801 Stemmons Freeway, Suite 807  
Dallas, TX 75234-6710

Date Received: N/A  
Work Order No: 07-10-1981  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: 465 Los Feliz

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-23,246	Aqueous	GC/MS T	10/27/07	10/27/07	071027L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	99	84-120	0	0-8	
Carbon Tetrachloride	101	102	63-147	1	0-10	
Chlorobenzene	104	103	89-119	2	0-7	
1,2-Dibromoethane	101	101	80-120	0	0-20	
1,2-Dichlorobenzene	104	106	89-119	2	0-9	
1,1-Dichloroethene	97	99	77-125	2	0-16	
Ethylbenzene	105	104	80-120	1	0-20	
Toluene	101	101	83-125	0	0-9	
Trichloroethene	99	97	89-119	2	0-8	
Vinyl Chloride	72	76	63-135	6	0-13	
Methyl-t-Butyl Ether (MTBE)	97	98	82-118	1	0-13	
Tert-Butyl Alcohol (TBA)	112	105	46-154	7	0-32	
Diisopropyl Ether (DIPE)	96	96	81-123	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	90	94	74-122	4	0-12	
Tert-Amyl-Methyl Ether (TAME)	93	95	76-124	2	0-10	
Ethanol	110	102	60-138	8	0-32	

RPD - Relative Percent Difference, CL - Control Limit



Glossary of Terms and Qualifiers



Work Order Number: 07-10-1981

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.







WORK ORDER #: 07 - 10 - 7987

Cooler 1 of 1

**SAMPLE RECEIPT FORM**

CLIENT: QORE

DATE: 10/27/07

**TEMPERATURE – SAMPLES RECEIVED BY:**

<b>CALSCIENCE COURIER:</b>	<b>LABORATORY (Other than Calscience Courier):</b>
<input type="checkbox"/> Chilled, cooler with temperature blank provided.	<input type="checkbox"/> °C Temperature blank.
<input type="checkbox"/> Chilled, cooler without temperature blank.	<u>40</u> °C IR thermometer.
<input type="checkbox"/> Chilled and placed in cooler with wet ice.	<input type="checkbox"/> Ambient temperature.
<input type="checkbox"/> Ambient and placed in cooler with wet ice.	
<input type="checkbox"/> Ambient temperature.	
<input type="checkbox"/> °C Temperature blank.	

Initial: (RM)

**CUSTODY SEAL INTACT:**

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present:

Initial: (RM)

**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with custody papers.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on sample label(s).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOA vial(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Soil & water

Initial: (RM)

**COMMENTS:**

---



---



---



---



---

**Appendix I  
Soil Boring Logs and  
Monitoring Well Construction Details**

# RECORD OF SUBSURFACE EXPLORATION



Project: 465 LOS FELIZ Boring/Well No.: MW-1 Page 1 of 2  
 Location: GLENDALE, CALIFORNIA Project No.: 150-1421B  
 Drilled By: MARTINI DRILLING Date Started: 10/25/07  
 Drilling Method(s): HOLLOW STEM AUGER Date Ended: 10/26/07  
 Sampling Method(s): SPLIT SPOON Logged By: K. HARVEY  
 Groundwater Information: INITIAL: 48.0' FINAL: 51.08' Weather: SUNNY & WARM

Boring/Monitor Well Information> Hole Dia.: 8.25" Total Depth: 70.0'		SOIL SYMBOL	WELL COMPLETION	SAMPLE RECOVERY INTERVAL NUMBER	INTERVAL SAMPLED	PID (ppm)	DEPTH, (FT)
Casing> Type: PVC Dia.: 2.0" Length: 40.0'	Screen> Type: PVC Slot: 0.010" Dia.: 2.0" Length: 30.0'						
DEPTH (FT)	DESCRIPTION OF STRATUM						
1.0	CONCRETE						
19.8	Dark brown SANDY CLAY, dry, soft, no odor						
7.0	GRAVEL, dry, loose, no odor			1			5
7.5	Tan SANDY GRAVEL, dry, loose, no odor			2			
10.0	Tan coarse SAND with gravel, slightly moist, loose, no odor			3			10
10.0				4			
12.5	Brown SANDY CLAY, soft, moist, no odor			5		4	
13.5	Tan coarse GRAVELLY SAND, loose, dry			6			
15.0	Brown SANDY CLAY, slightly moist, stiff, organic odor			7			15
15.0				8		3.4	
19.0	Brown coarse SAND with gravel, moist, loose, light organic odor			9			20
20.0	Brown CLAYEY fine SAND, loose, moist, no odor			10			
24.0	Tan to orange SAND with gravel and cobbles, slightly moist, loose, no odor			11		1.8	25
24.0				12			
28.5	Brown coarse SAND with gravel, loose, slightly moist, no odor			13			30
28.5				14		2.1	35
39.0	Brown SAND, loose, slightly moist, no odor			15		9.8	

MONITOR WELL LEGEND  
 WATER INITIAL (V), NO RECOVERY (X), CONTINUOUS FLIGHT AUGER (I), CUTTINGS (C), FLUSH CURB BOX (F), CEMENT (Z), SAND (S)  
 WATER FINAL (V), CORE BARREL (B), HAND AUGER (H), SHELBY TUBE SAMPLES (S), DRIVEN SPLIT SPOON (D), BENTONITE (B), SCREENED INTERVAL (S)

GORELOGFID_150-1421B-MW.GPJ_11/1/07

# RECORD OF SUBSURFACE EXPLORATION

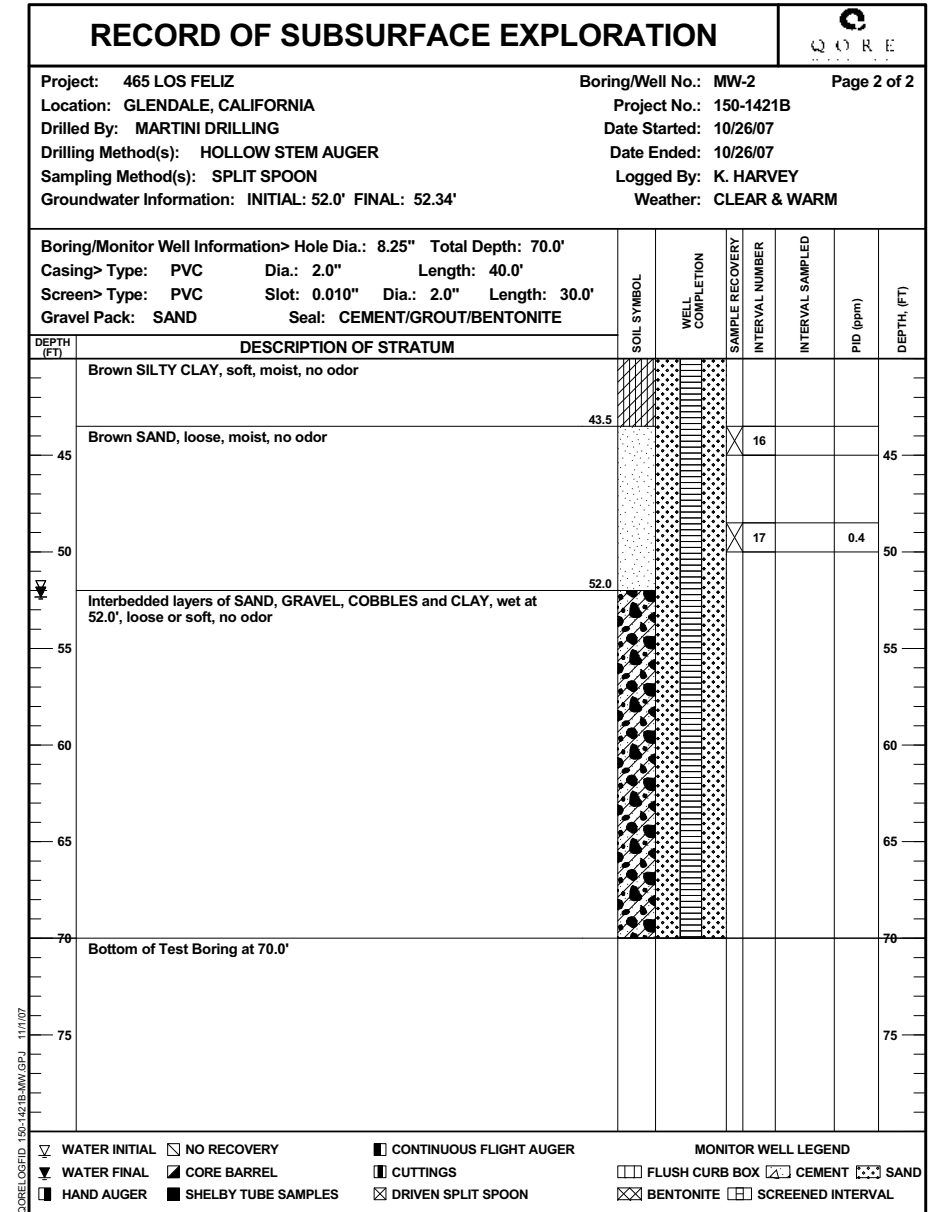
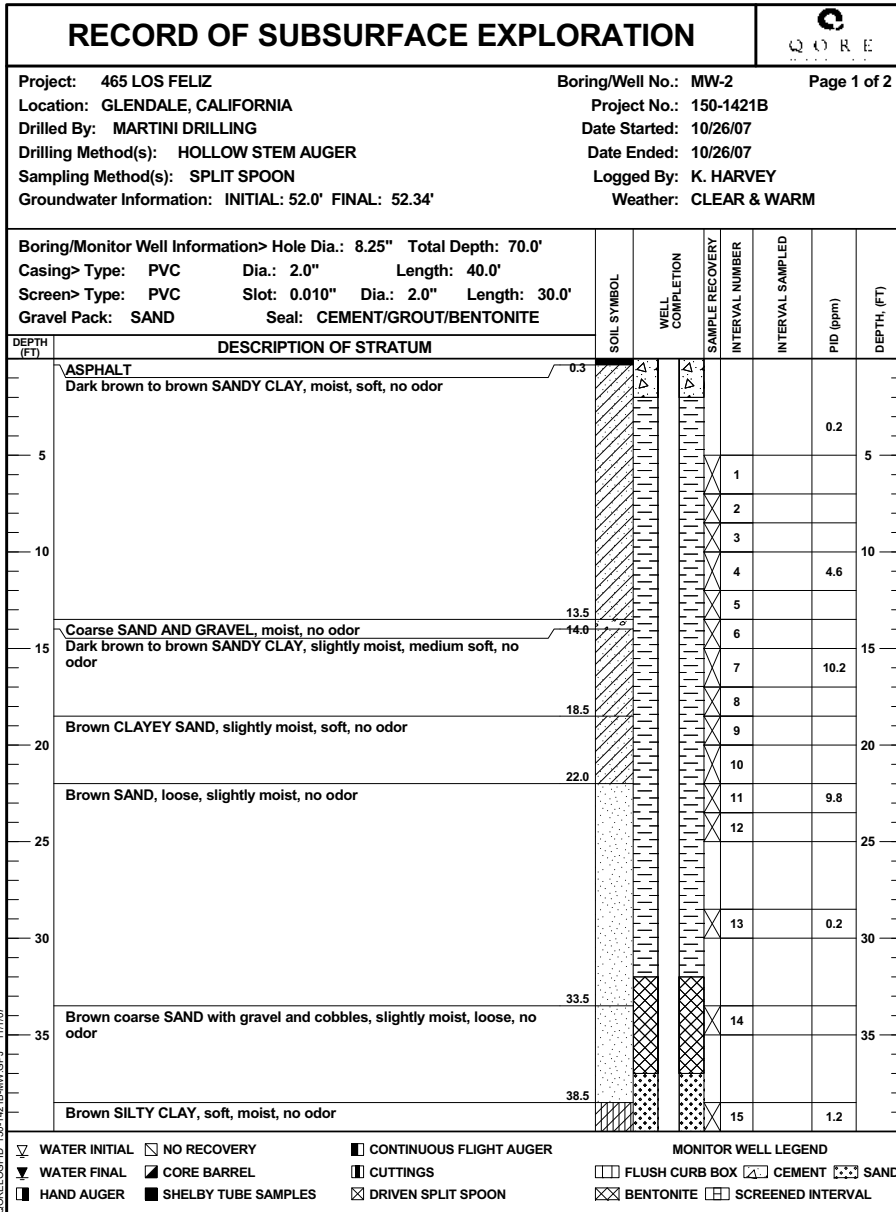


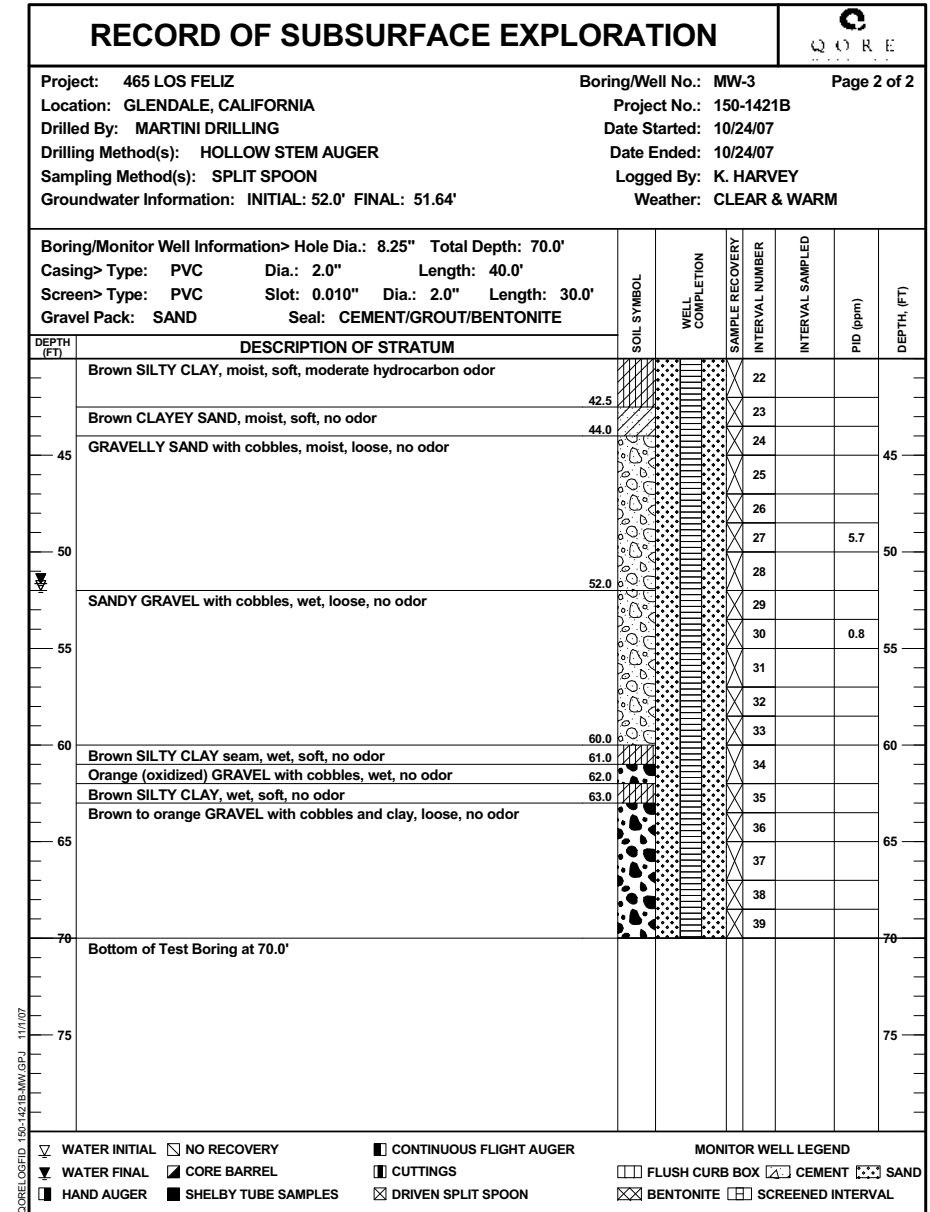
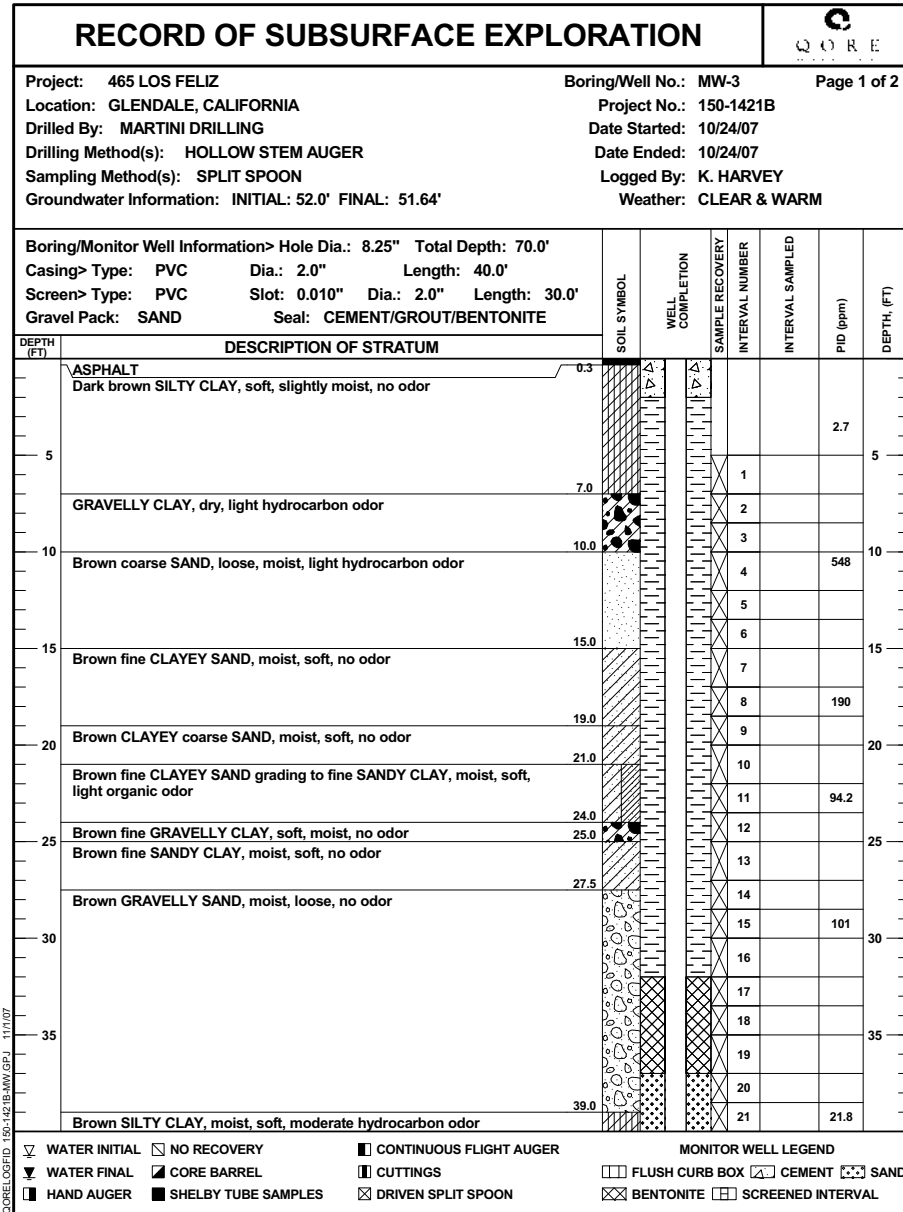
Project: 465 LOS FELIZ Boring/Well No.: MW-1 Page 2 of 2  
 Location: GLENDALE, CALIFORNIA Project No.: 150-1421B  
 Drilled By: MARTINI DRILLING Date Started: 10/25/07  
 Drilling Method(s): HOLLOW STEM AUGER Date Ended: 10/26/07  
 Sampling Method(s): SPLIT SPOON Logged By: K. HARVEY  
 Groundwater Information: INITIAL: 48.0' FINAL: 51.08' Weather: SUNNY & WARM

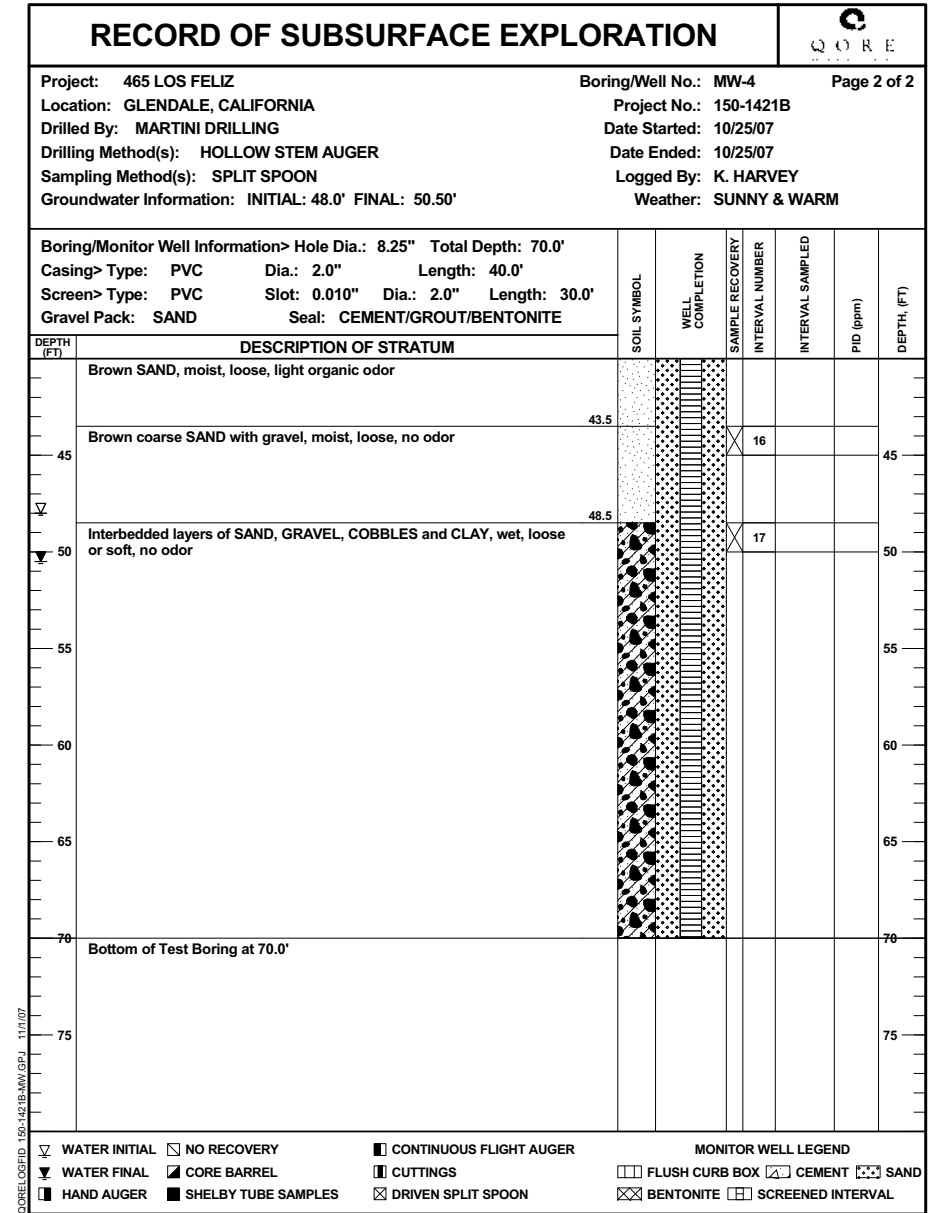
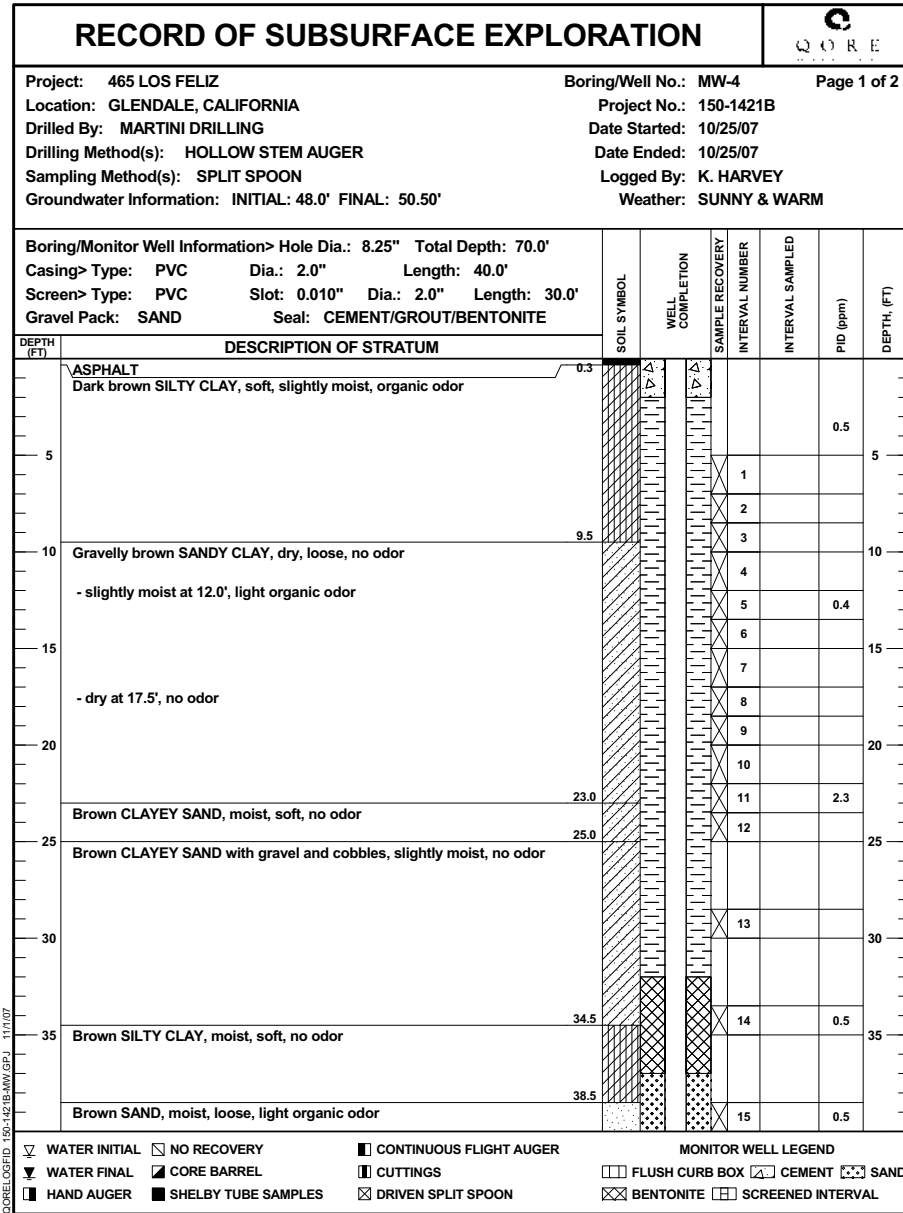
Boring/Monitor Well Information> Hole Dia.: 8.25" Total Depth: 70.0'		SOIL SYMBOL	WELL COMPLETION	SAMPLE RECOVERY INTERVAL NUMBER	INTERVAL SAMPLED	PID (ppm)	DEPTH, (FT)
Casing> Type: PVC Dia.: 2.0" Length: 40.0'	Screen> Type: PVC Slot: 0.010" Dia.: 2.0" Length: 30.0'						
DEPTH (FT)	DESCRIPTION OF STRATUM						
45.0	Brown SAND, loose, slightly moist, no odor						
45.0	Interbedded layers of SAND, GRAVEL, COBBLES and CLAY, wet at 48.0'; loose or soft, no odor			16			45
45.0				17			50
70.0	Bottom of Test Boring at 70.0'						70

MONITOR WELL LEGEND  
 WATER INITIAL (V), NO RECOVERY (X), CONTINUOUS FLIGHT AUGER (I), CUTTINGS (C), FLUSH CURB BOX (F), CEMENT (Z), SAND (S)  
 WATER FINAL (V), CORE BARREL (B), HAND AUGER (H), SHELBY TUBE SAMPLES (S), DRIVEN SPLIT SPOON (D), BENTONITE (B), SCREENED INTERVAL (S)

GORELOGFID_150-1421B-MW.GPJ_11/1/07







## **APPENDIX 4.5**

---

### **NOISE STUDY AND ROADWAY NOISE CALCULATIONS**



January 16, 2013

MITAA Management, LLC  
3200 Wilshire Blvd., North Tower, Suite 1100  
Los Angeles, CA 90010

Attention: Mr. Dale S. Kim

Subject: Acoustical Analysis Report  
Glen Village Apartments  
435 West Los Feliz Blvd., Glendale, CA  
V.A. Project No. 4962-001

Dear Mr. Kim:

On February 22, 2011 we visited the site of the proposed Glen Village Apartments project at 435 Los Feliz Boulevard, in Glendale, CA and performed a series of noise measurements. The purpose of the visit was to observe the present conditions and document the existing noise levels. The results of the noise survey have been used for development of mitigation measures for reducing the noise impacts on the project due to rail and roadways traffic, in compliance with the prevailing guidelines, regulations.

The project must comply with California Noise Insulation Standard (Title 24) and UBC standard. These regulations require a maximum interior noise level of 45 CNEL. The project must also be in conformance with the City of Glendale land use compatibility requirements as part of the City's Noise Element and General Plan guidelines. Tables 1 and 2 in the Appendix show these requirements.

Additionally the party walls and common floor-ceiling assemblies for the residential portion of the project must have minimum STC and IIC ratings of 50.

The project site is located on the northwest corner of Los Feliz Road and Garden Avenue in the City of Glendale. A rail road line is located directly to the west property line of the site. The traffic on Los Feliz Road and operations of the trains are the major sources of noise at this location. San Fernando Road, which is another major noise corridor in the general area of the site, is located one block to the east of the project site. The noise levels due to traffic on this corridor are however reduced at the project site by the intervening structures which are located to the east of Garden Avenue. Therefore the San Fernando traffic does not have any significant noise impacts at the project site.

The project consists of two independent structures, a five level garage and a six story residential building. The garage structure extends 130 feet eastward from the west property line of the site. An underground storm drain easement separates the residential structure from the garage structure. These structures are connected by bridges at each level.

The enclosed Figure 1 shows the unimproved lot and the locations of noise measurements. Long term noise measurements were performed at L1 and L2 points. Hourly noise levels, minimum and maximum levels and various statistical levels were also measured and recorded for six hours at Location S.

Based on these measurements the CNEL values, after construction of the project and at various facades of the structures were estimated. The noise reduction afforded by the garage structure was included in these estimates. The predicted CNEL values for various zones are included in the following Table.

Zone	1	2	3	4
CNEL	65-69	65	62	Below 60

The architectural design drawings for the project and the exterior noise levels shown in the table above were used in estimating the interior noise levels. The interior noise levels due to exterior sources must be below CNEL 45. The required STC rating for windows and sliding glass doors at various facades are shown in the following table. Various zones for which the STC ratings have been determined are shown in Figure2.

Zone	1	2	3	4
STC Ratings	30	28	23	Non-Rated Fenestration Products

The STC rating of the party wall between two independent units must be at least 50. Typical details for party walls which yield STC rating of 50 and floor-ceiling assemblies which yield STC and IIC ratings of 50 or higher are enclosed.

Based on the results of our analysis we have concluded that the project as designed will be in compliance with all relevant codes as related to land use requirements, including the California Noise Insulation Standards, the City of Glendale General Plan and Noise Element.





Veneklasen Associates

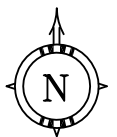
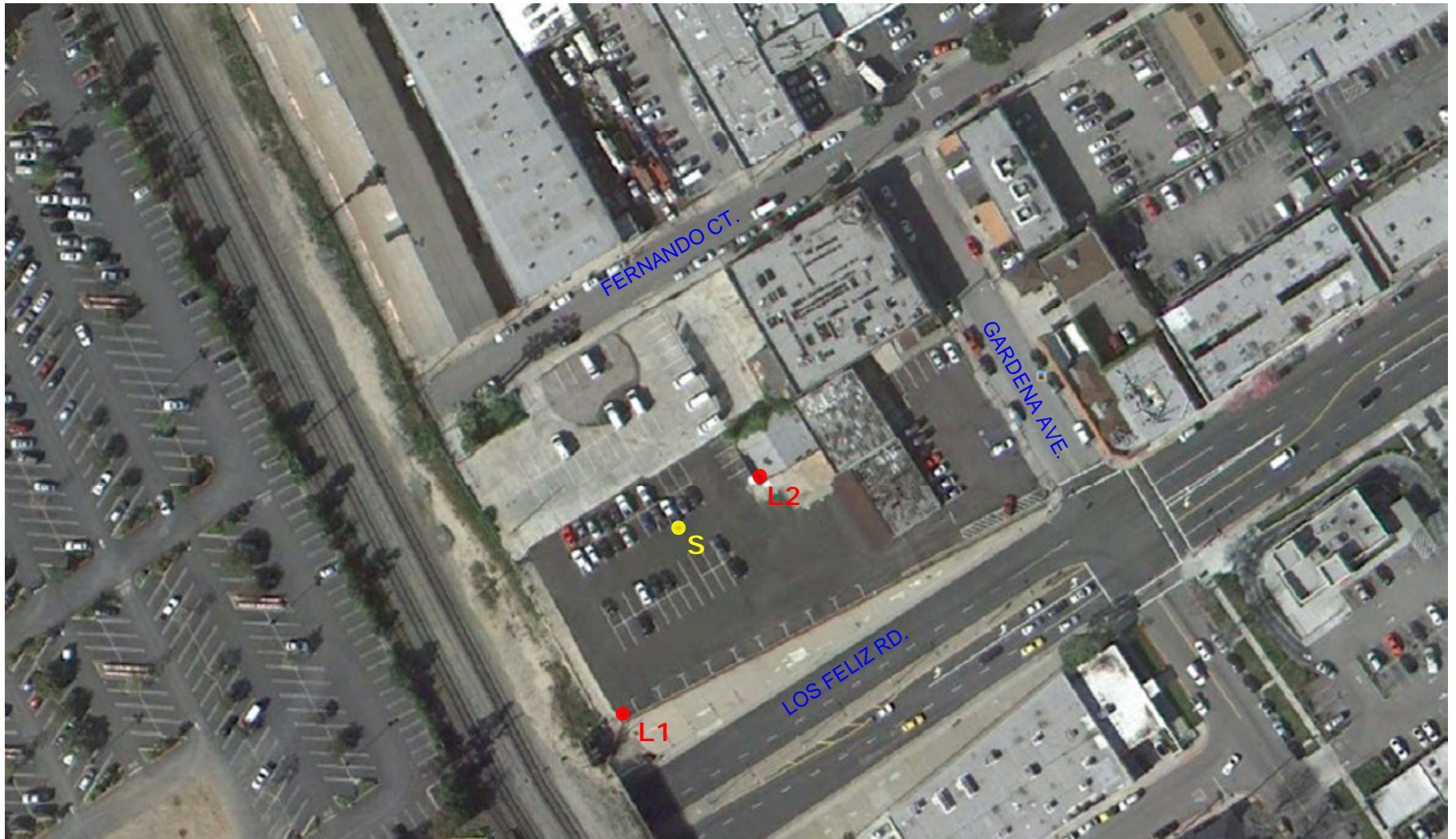
If you have any questions concerning the information contained in this report please do not hesitate to contact me.

Sincerely,

Veneklasen Associates, Inc.

Hooshang Khosrovani, Ph.D., P.E.  
Associate Principal

G:\MITTA\435WLosFeliz\Noise\12hk002



# Glendale Apartments

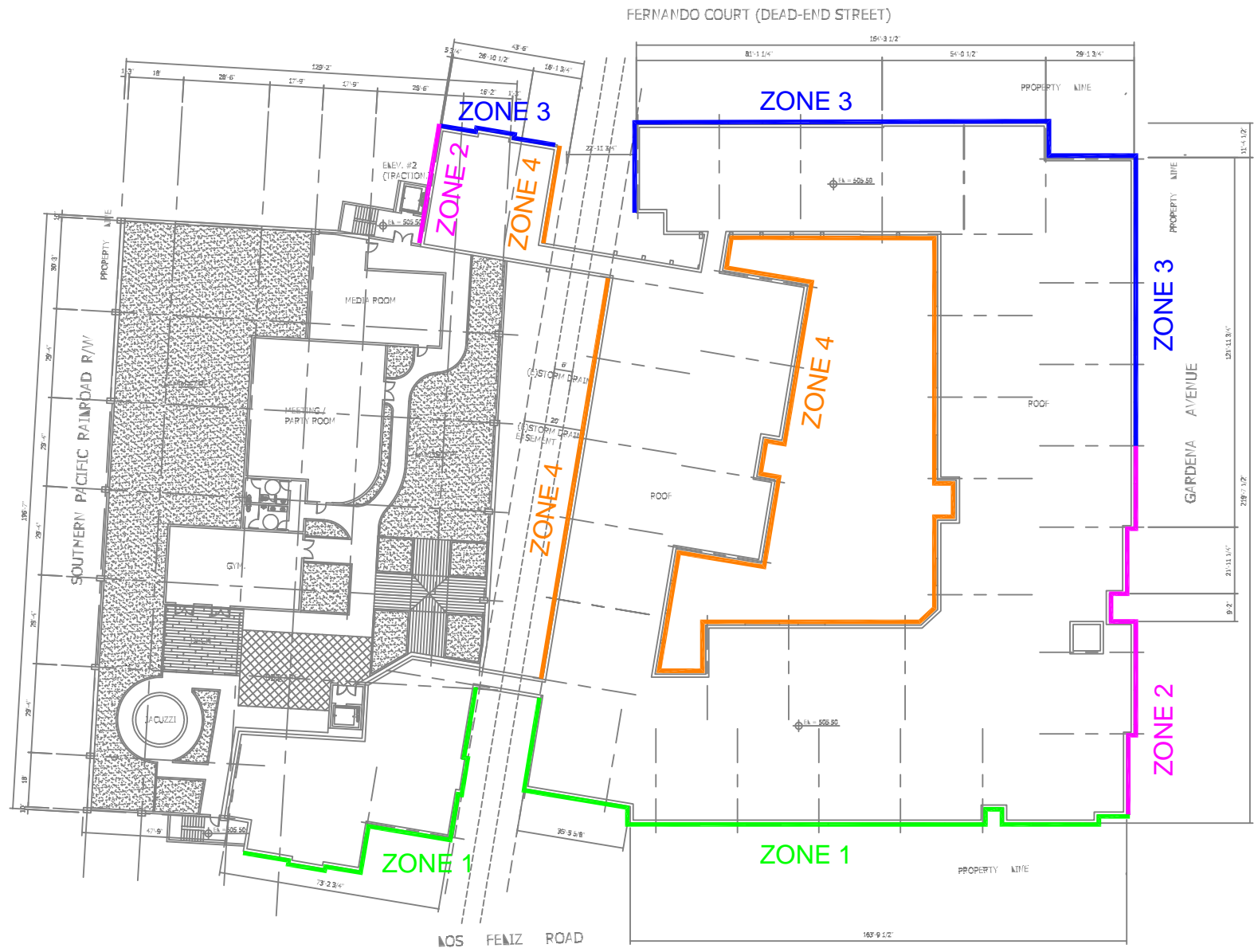


**Veneklasen Associates**  
Consultants in Acoustics | AV | IT | Environmental Noise  
1711 Sixteenth Street, Santa Monica, CA 90404 (310) 450-1733

APRIL 2012

SCALE: NTS

FIGURE 1



# Glendale Apartments



**Veneklasen Associates**  
 Consultants in Acoustics | AV | IT | Environmental Noise  
 1711 Sixteenth Street, Santa Monica, CA 90404 (310) 450-1733

APRIL 2012

SCALE: NTS

FIGURE 2

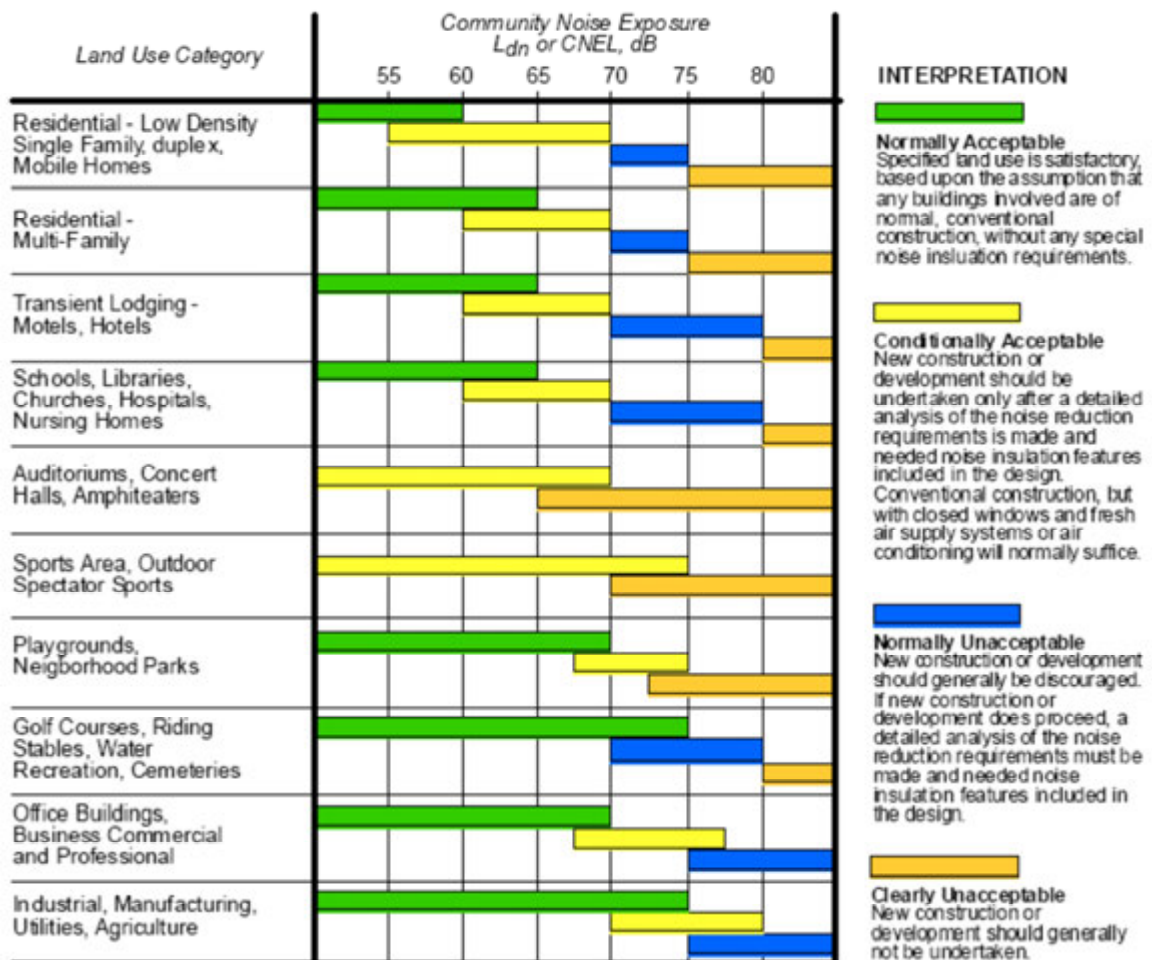


**Veneklasen Associates**

## APPENDIX



**Table 1  
Noise/Land Use Compatibility Table**



Source: State of California, "General Plan Guidelines," 1998

Table 2

INTERIOR AND EXTERIOR NOISE STANDARDS

LAND USE CATEGORIES NOISE STANDARDS

CATEGORIES	USES	INTERIOR CNEL	EXTERIORCNEL
RESIDENTIAL	Single Family	45 (1)	65 (2)
	Multi-Family	45 (1)	65 (3)
	Residential within Mixed Use	45 (1)	–
COMMERCIAL	Hotel, Motel, Transient Lodging	45 (1)	–
INSTITUTIONAL	Hospital, School Class, Church, Library	45	–
OPEN SPACE	Parks (4)	–	65

Notes:

1. Applies to the indoor environment excluding bathrooms, toilets, closets and corridors.
2. Applies to the outdoor environment limited to the private yard of single family residences (Normally the rear yard).
3. Applies to the patio area where there is an expectation of privacy (i.e., not a patio area which also serves as, or is adjacent to, the primary entrance to the unit).
4. Only applies to parks where peace and quiet are determined to be of prime importance, such as hillside open space areas open to the public. Generally would not apply to urban parks or activeuse parks.

**Table N-1  
NOISE LEVEL CONTOURS - Existing**

ROADWAY NAME Segment	Median Lanes	Median Width	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor	Alpha Factor (1	Barrier Attn. dB(A)	Vehicle Mix Medium Trucks	Vehicle Mix Heavy Trucks	dB(A) CNEL
Los Feliz Road between UPRR and Gardena Avenue	4	0	29,200	35	75	0	0	1.8%	0.7%	65.6
Los Feliz Road between Gardena Avenue and San Fernando Road	4	0	26,000	35	75	0	0	1.8%	0.7%	65.7
Los Feliz Road east of San Fernando Road	4	0	17,600	35	75	0	0	1.8%	0.7%	64.0
Gardena Avenue north of Los Feliz Road	2	0	1,500	25	75	0	0	1.8%	0.7%	50.6
Gardena Avenue south of Los Feliz Road	4	0	3,600	25	75	0	0	1.8%	0.7%	54.5
San Fernando Road between Los Feliz Road and Fernando Court	6	0	19,900	35	75	0	0	1.8%	0.7%	64.8
San Fernando Road south of Los Feliz Road	6	0	16,300	35	75	0	0	1.8%	0.7%	63.9

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as asphalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

**Table N-2  
NOISE LEVEL CONTOURS - Existing + Project**

ROADWAY NAME Segment	Median Lanes	Median Width	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor	Alpha Factor (1)	Barrier Attn. dB(A)	Vehicle Mix Medium Trucks	Vehicle Mix Heavy Trucks	dB(A) CNEL
Los Feliz Road between UPRR and Gardena Avenue	4	0	29,300	35	75	0	0	1.8%	0.7%	65.6
Los Feliz Road between Gardena Avenue and San Fernando Road	4	0	27,000	35	75	0	0	1.8%	0.7%	65.9
Los Feliz Road east of San Fernando Road	4	0	18,100	35	75	0	0	1.8%	0.7%	64.1
Gardena Avenue north of Los Feliz Road	2	0	2,600	25	75	0	0	1.8%	0.7%	53.0
Gardena Avenue south of Los Feliz Road	4	0	3,600	25	75	0	0	1.8%	0.7%	54.5
San Fernando Road between Los Feliz Road and Fernando Court	6	0	20,200	35	75	0	0	1.8%	0.7%	64.9
San Fernando Road south of Los Feliz Road	6	0	16,700	35	75	0	0	1.8%	0.7%	64.0

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as asphalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%



**Table N-3  
NOISE LEVEL CONTOURS - Cumulative**

ROADWAY NAME Segment	Median Lanes	Median Width	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor	Alpha Factor (1	Barrier Attn. dB(A)	Vehicle Mix Medium Trucks	Vehicle Mix Heavy Trucks	dB(A) CNEL
Los Feliz Road between UPRR and Gardena Avenue	4	0	31,100	35	75	0	0	1.8%	0.7%	65.8
Los Feliz Road between Gardena Avenue and San Fernando Road	4	0	27,800	35	75	0	0	1.8%	0.7%	66.0
Los Feliz Road east of San Fernando Road	4	0	18,900	35	75	0	0	1.8%	0.7%	64.3
Gardena Avenue north of Los Feliz Road	2	0	1,500	25	75	0	0	1.8%	0.7%	50.6
Gardena Avenue south of Los Feliz Road	4	0	3,700	25	75	0	0	1.8%	0.7%	54.6
San Fernando Road between Los Feliz Road and Fernando Court	6	0	21,500	35	75	0	0	1.8%	0.7%	65.1
San Fernando Road south of Los Feliz Road	6	0	17,400	35	75	0	0	1.8%	0.7%	64.2

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as asphalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

**Table N-4  
NOISE LEVEL CONTOURS - Cumulative + Project**

ROADWAY NAME Segment	Median Lanes	Median Width	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor	Alpha Factor (1	Barrier Attn. dB(A)	Vehicle Mix Medium Trucks	Vehicle Mix Heavy Trucks	dB(A) CNEL
Los Feliz Road between UPRR and Gardena Avenue	4	0	31,200	35	75	0	0	1.8%	0.7%	65.9
Los Feliz Road between Gardena Avenue and San Fernando Road	4	0	28,800	35	75	0	0	1.8%	0.7%	66.2
Los Feliz Road east of San Fernando Road	4	0	19,400	35	75	0	0	1.8%	0.7%	64.4
Gardena Avenue north of Los Feliz Road	2	0	2,600	25	75	0	0	1.8%	0.7%	53.0
Gardena Avenue south of Los Feliz Road	4	0	3,700	25	75	0	0	1.8%	0.7%	54.6
San Fernando Road between Los Feliz Road and Fernando Court	6	0	21,800	35	75	0	0	1.8%	0.7%	65.2
San Fernando Road south of Los Feliz Road	6	0	17,800	35	75	0	0	1.8%	0.7%	64.3

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as asphalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

September 5, 2013

Mill Creek  
949 South Coast Drive, Suite 900  
Costa Mesa, CA 92626

Attention: Mr. Michael Genthe

Subject: Tropico Housing Project, Glendale, CA  
Report-Updated Noise Study  
VA Project No. 4880-005-000

Dear Mr. Genthe:

We are in the receipt of the updated plans for the subject project (previously called "Glen Village Apartments"). We have reviewed these plans for determining any changes that might necessitate altering our recommendation.

Based on our review and analysis we have determined that our recommendation regarding the STC rating of the windows and sliding glass doors are still valid and apply to the new plans.

The enclosed Figure 1 shows various zones where different STC rated windows and sliding glass doors need to be installed. The figure includes the updated site plan with the corresponding zones for each recommended STC rating.

We are also enclosing the original report for reference.

If you have any questions concerning the information contained in this report please do not hesitate to contact me.

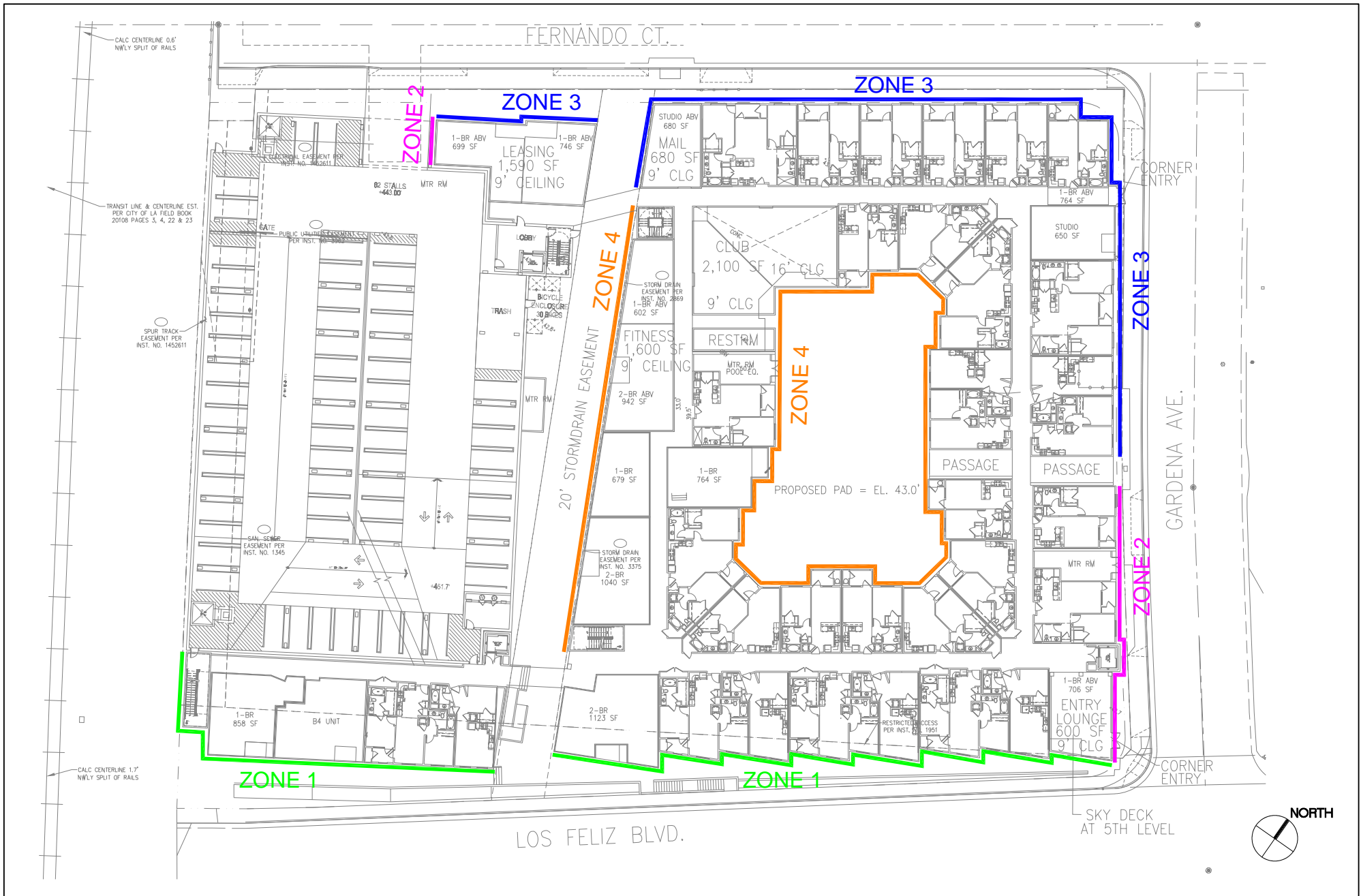
Sincerely,

Veneklasen Associates, Inc.



Hooshang Khosrovani, Ph.D., P.E.  
Associate Principal

G:\Mill Creek\435WLosFeliz\Tropico\Noise\13hk001



# Tropico Apartments



**Veneklasen Associates**  
 Consultants in Acoustics | AV | IT | Environmental Noise  
 1711 Sixteenth Street, Santa Monica, CA 90404 (310) 450-1733

SEPTEMBER 2013

SCALE: NTS

FIGURE 1

**APPENDIX 4.9**

---

**TRAFFIC STUDY**



**KUNZMAN ASSOCIATES, INC.**

**GLEN VILLAGE APARTMENTS**

**TRAFFIC IMPACT ANALYSIS**

**August 31, 2012**



KUNZMAN ASSOCIATES, INC.

**GLEN VILLAGE APARTMENTS  
TRAFFIC IMPACT ANALYSIS**

**August 31, 2012**

Prepared by:

Amy Leung, E.I.T.,  
Carl Ballard, LEED GA, and  
William Kunzman, P.E.

*William Kunzman*



1111 Town & Country Road, Suite 34  
Orange, California 92868  
(714) 973-8383

[www.traffic-engineer.com](http://www.traffic-engineer.com)

## Table of Contents

---

---

I.	Findings.....	2
	A. Existing Traffic Conditions .....	2
	B. Traffic Impacts .....	2
	C. Mitigation Measures .....	3
II.	Congestion Management Program Methodology .....	4
	A. County Congestion Management Program .....	4
	B. Prescribed Methodology for Intersection Traffic Impact Analysis .....	5
	C. Transit Impact Review.....	6
	D. Mitigation Measures .....	6
III.	Project Description .....	8
	A. Location .....	8
	B. Proposed Development.....	8
IV.	Existing Conditions .....	11
	A. Surrounding Street System.....	11
	B. Existing Travel Lanes and Intersection Controls .....	11
	C. Existing Average Daily Traffic Volumes .....	11
	D. Existing Levels of Service .....	11
	E. Transit Service.....	12
V.	Project Traffic .....	18
	A. Trip Generation.....	18
	B. Trip Distribution.....	18
	C. Trip Assignment .....	18
VI.	Existing Plus Project Traffic Conditions.....	25
	A. Method of Projection .....	25
	B. Existing Plus Project Average Daily Traffic Volumes .....	25
	C. Existing Plus Project Levels of Service .....	25
	D. Significant Transportation Impact for Intersections .....	25
VII.	Year 2014 Without Project Traffic Conditions .....	32
	A. Method of Projection .....	32
	B. Year 2014 Without Project Average Daily Traffic Volumes.....	32
	C. Year 2014 Without Project Levels of Service .....	32
VIII.	Year 2014 With Project Traffic Conditions.....	39
	A. Method of Projection .....	39
	B. Year 2014 With Project Average Daily Traffic Volumes .....	39
	C. Year 2014 With Project Levels of Service .....	39
	D. Significant Transportation Impact for Intersections .....	39
IX.	Construction Traffic Analysis.....	46
	A. Construction Phases.....	46
	B. Impact Analysis .....	47
X.	Elimination of On-Street and Off-Street Parking Analysis .....	50
XI.	Recommendations .....	51
	A. Site Access .....	51
	B. Roadway Improvements .....	51



## **APPENDICES**

**Appendix A – Glossary of Transportation Terms**

**Appendix B – Traffic Count Worksheets**

**Appendix C – Explanation and Calculation of Level of Service**

**Appendix D – On-Site Parking Leases**

**List of Tables**

---

---

Table 1. Existing Levels of Service .....13  
Table 2. Project Trip Generation .....19  
Table 3. Existing Plus Project Levels of Service .....27  
Table 4. Existing Plus Project Mitigation Measures .....28  
Table 5. Related Projects Trip Generation .....33  
Table 6. Year 2014 Without Project Levels of Service .....34  
Table 7. Year 2014 With Project Levels of Service .....41  
Table 8. Year 2014 With Project Mitigation Measures .....42

## List of Figures

---

Figure 1. Project Location Map .....	9
Figure 2. Site Plan .....	10
Figure 3. Existing Travel Lanes and Intersection Controls .....	14
Figure 4. Existing Average Daily Traffic Volumes .....	15
Figure 5. Existing Morning Peak Hour Intersection Turning Movement Volumes .....	16
Figure 6. Existing Evening Peak Hour Intersection Turning Movement Volumes .....	17
Figure 7. Project Outbound Trip Distribution .....	20
Figure 8. Project Inbound Trip Distribution .....	21
Figure 9. Project Average Daily Traffic Volumes .....	22
Figure 10. Project Morning Peak Hour Intersection Turning Movement Volumes .....	23
Figure 11. Project Evening Peak Hour Intersection Turning Movement Volumes .....	24
Figure 12. Existing Plus Project Average Daily Traffic Volumes .....	29
Figure 13. Existing Plus Project Morning Peak Hour Intersection Turning Movement Volumes .....	30
Figure 14. Existing Plus Project Evening Peak Hour Intersection Turning Movement Volumes ...	31
Figure 15. Related Projects Traffic Analysis Zone Map .....	35
Figure 16. Year 2014 Without Project Average Daily Traffic Volumes .....	36
Figure 17. Year 2014 Without Project Morning Peak Hour Intersection Turning Movement Volumes .....	37
Figure 18. Year 2014 Without Project Evening Peak Hour Intersection Turning Movement Volumes .....	38
Figure 19. Year 2014 With Project Average Daily Traffic Volumes .....	43
Figure 20. Year 2014 With Project Morning Peak Hour Intersection Turning Movement Volumes .....	44
Figure 21. Year 2014 With Project Evening Peak Hour Intersection Turning Movement Volumes .....	45
Figure 22. Circulation Recommendations .....	52

# **Glen Village Apartments**

## **Traffic Impact Analysis**

This report contains the traffic impact analysis for the Glen Village Apartments project. The project site is located on the northwest corner of Gardena Avenue and Los Feliz Road in the City of Glendale. The proposed development consists of 238 dwelling units of mid-rise apartments.

The traffic report contains documentation of existing traffic conditions, trips generated by the project, distribution of the project traffic to roads outside the project, and an analysis of future traffic conditions. Each of these topics is contained in a separate section of the report. The first section is "Findings", and subsequent sections expand upon the findings. In this way, information on any particular aspect of the study can be easily located by the reader.

Although this is a technical report, every effort has been made to write the report clearly and concisely. To assist the reader with those terms unique to transportation engineering, a glossary of terms is provided within Appendix A.

## I. Findings

---

---

This section summarizes the existing traffic conditions, project traffic impacts, and the proposed mitigation measures.

### A. Existing Traffic Conditions

1. The project site is currently vacant. The project site is currently leased to certain nearby businesses for parking. Parking occupancy surveys indicate as many as approximately 45 vehicles are parked on-site during peak periods. The project site is not generating a significant amount of traffic.
2. Based upon discussions with the City of Glendale Traffic & Transportation Division staff, the study area includes the following 2 intersections:

Gardena Avenue (NS) at:  
Los Feliz Road (EW) - #1

San Fernando Road (NS) at:  
Los Feliz Road (EW) - #2

3. The study area intersections currently operate at Level of Service E or better during the peak hours for existing traffic conditions (see Table 1).

### B. Traffic Impacts

1. Table 3 depicts the Existing Plus Project traffic Levels of Service at the 2 study area intersections. As shown in Table 3, the project significantly impacts the following study area intersection during the evening peak hour assuming no improvements:

San Fernando Road (NS) at:  
Los Feliz Road (EW) - #2 – No Mitigation

A significant and unmitigable impact would occur during the evening peak hour at this intersection. The increase is 0.024 during the evening peak hour. This is a nominal increase over the City of Glendale threshold of 0.020.

2. Table 7 depicts the Year 2012 With Project traffic Levels of Service at the 2 study area intersections. As shown in Table 7, the project significantly impacts the following study area intersection during the evening peak hour assuming no improvements:

San Fernando Road (NS) at:  
Los Feliz Road (EW) - #2

A significant and unmitigable impact would occur during the evening peak hour at this intersection. The increase is 0.024 during the evening peak hour. This is a nominal increase over the City of Glendale threshold of 0.020.

**C. Mitigation Measures**

The following measures are recommended to mitigate project-related traffic impacts in the immediate vicinity of the site:

1. Site-specific circulation and access requirements of the City of Glendale Traffic & Transportation Division depicted on Figure 22.
2. Eastbound left-turn storage modification and protected left turn arrow at the intersection of Gardena Avenue and Los Feliz Road specified by the City of Glendale Traffic & Transportation Division.
3. A two (2) foot widening, restriping and an associated dedication of right-of-way adjacent to the site's entire frontage on Gardena Avenue. (It should be noted that approximately 9 parking spaces will be lost as a result of the street widening.)
4. A five (5) foot widening, restriping and an associated dedication of right-of-way along the site's entire frontage on Fernando Court. (It should be noted that approximately 7 parking spaces will be lost because of the street widening.)
5. A two (2) foot widening and restriping along the south side of Fernando Court between Gardena Avenue and San Fernando Road.
6. Sufficient on-site parking shall be provided to meet the project's peak parking demand.
7. Sight distance at the project accesses should be reviewed with respect to California Department of Transportation/City of Glendale standards in conjunction with the preparation of final grading, landscaping, and street improvement plans.
8. On-site traffic signing and striping should be implemented in conjunction with detailed construction plans for the project.
9. As is the case for any roadway design, the City of Glendale should periodically review traffic operations in the vicinity of the project once the project is constructed to assure that the traffic operations are satisfactory.

## **II. Congestion Management Program Methodology**

---

---

This section discusses the County Congestion Management Program. The purpose, prescribed methodology, and definition of a significant traffic impact are discussed.

### **A. County Congestion Management Program**

The Congestion Management Program is a result of Proposition 111 which was a statewide initiative approved by the voters in June 1990. The proposition allowed for a nine cent per gallon state gasoline tax increase over a five-year period.

Proposition 111 explicitly stated that the new gas tax revenues were to be used to fix existing traffic problems and was not to be used to promote future development. For a city to get its share of the Proposition 111 gas tax, it has to follow certain procedures specified by the State Legislature. The legislation requires that a Traffic Impact Analysis be prepared for new development. The traffic impact analysis is prepared to monitor and fix traffic problems caused by new development.

The Legislature requires that adjacent jurisdictions use a standard methodology for conducting a traffic impact analysis. To assure that adjacent jurisdictions use a standard methodology in preparing traffic impact analyses, one common procedure is that all cities within a county, and the county agency itself, adopt and use one standard methodology for conducting traffic impact analyses.

Although each county has developed standards for preparing traffic impact analyses, traffic impact analysis requirements do vary in detail from one county to another, but not in overall intent or concept. The general approach selected by each county for conducting traffic impact analyses has common elements.

The general approach for conducting a traffic impact analysis is that existing weekday peak hour traffic is counted and the percent of roadway capacity currently used is determined. Then growth in traffic is accounted for and added to existing traffic and the percent of roadway capacity used is again determined. Then the project traffic is added and the percent of roadway capacity used is again determined. If the new project adds traffic to an overcrowded facility, then the new project has to mitigate the traffic impact so that the facility operates at a level that is no worse than before the project traffic was added.

If the project size is below a certain minimum threshold level, then a project does not have to have a traffic impact analysis prepared, once it is shown or agreed that the project is below the minimum threshold. If a project is bigger than the minimum threshold size, then a traffic impact analysis is required.

According to the Congestion Management Program manual, the criterion for determining a significant transportation impact is listed below:

“A significant transportation impact occurs when the proposed project increases traffic demand on a Congestion Management Program facility by 2% of capacity ( $V/C > 0.02$ ), causing or worsening Level of Service F ( $V/C > 1.00$ )”

The Congestion Management Program criteria apply for analysis for both freeway and intersection monitoring locations.

**B. Prescribed Methodology for Intersection Traffic Impact Analysis**

There are no Congestion Management Program intersection monitoring locations in the project vicinity. The Congestion Management Program Traffic Impact Assessment guidelines require that intersection monitoring locations must be examined if the proposed project will add 50 or more trips during either the morning or evening weekday periods.

The traffic impact analysis must include all monitored intersections to which the project adds traffic above a certain minimum amount. In Los Angeles County, the monitored intersections are contained in Appendix A of the Congestion Management Program for the County of Los Angeles.

If a project adds more traffic than the minimum threshold amount to an intersection, then that intersection has to be analyzed for deficiencies.

If the intersection has to be analyzed for deficiencies, then mitigation is required if the existing traffic plus anticipated traffic growth plus project traffic does cause the Levels of Service to go above a certain point.

In the City of Glendale, a significant impact would occur when a proposed project increases 2% of capacity ( $V/C$  increase  $\geq 0.02$ ) at a signalized intersection that would operate at Level of Service D or worse with project added traffic volumes. An intersection mitigation measure shall either fix the deficiency, or reduce the Levels of Service so that it is below the level that occurs without the project.

In the City of Glendale, the signalized intersection analysis technique used to calculate Intersection Capacity Utilization is as follows. Lane capacity is 1,600 vehicles per lane per hour for all through and turn lanes and 2,880 total for dual turn lanes. A total yellow clearance time of 0.10 is added. The technique used to assess the operation of a signalized intersection is known as Intersection Capacity Utilization, as described in Appendix C. To calculate an Intersection Capacity Utilization value, the volume of traffic using the intersection is compared with the capacity of the intersection. The Intersection Capacity Utilization represents that portion of the hour required to provide sufficient capacity to accommodate all intersection traffic if all approaches operate at capacity.

In the City of Glendale, the technique used to assess the capacity needs of an unsignalized intersection is known as the Intersection Delay Method (see Appendix C). To calculate delay, the volume of traffic using the intersection is compared with the capacity of the intersection. The impact is considered significant for unsignalized intersections if the project related increase in the delay equals or exceeds 3 seconds that have Levels of Service D, E, or F.



Project traffic is generated using rates and procedures contained in the Institute of Transportation Engineers, Trip Generation, 8th Edition, 2008 and San Diego Association of Governments, Traffic Generators, April 2002. The project trip distribution is provided by the reviewing agency or is agreed to in advance of the traffic impact analysis being prepared. The traffic impact analysis has to be prepared by a licensed Traffic Engineer.

This traffic analysis has been prepared in accordance with the traffic impact analysis requirements except as noted. The traffic impact analysis not only examined the Congestion Management Program system of roads and intersections, but also other roads and intersections.

The project-generated traffic was added to intersections, and a full intersection analysis was conducted, even when the project added traffic failed to meet the minimum thresholds that require an intersection analysis.

**C. Transit Impact Review**

A review has been made of the Congestion Management Program transit service. Transit service is provided in the vicinity of the proposed Glen Village Apartments project.

The project transit calculations are based upon values stated in the Congestion Management Program to estimate the transit trip generation. The person trips are equal to 1.4 times vehicle trips and the transit trips are equal to 3.5 percent of the total person trips.

Pursuant to the Congestion Management Program guidelines, over a 24-hour period, the proposed project is forecast to generate demand for 70 daily transit trips, 3 of which will occur during the morning peak hour and 5 of which will occur during the evening peak hour. The calculations for the morning, evening, and daily traffic conditions are as follows:

$$\text{Morning Peak Hour} = 71 \times 1.4 \times 0.035 = 3 \text{ Transit Trips}$$

$$\text{Evening Peak Hour} = 93 \times 1.4 \times 0.035 = 5 \text{ Transit Trips}$$

$$\text{Daily} = 1,428 \times 1.4 \times 0.035 = 70 \text{ Transit Trips}$$

Transit service is provided by the Los Angeles County Metropolitan Authority and Beeline Bus. The Los Angeles County Metropolitan Authority system includes Routes 180, 181, and 780 along Los Feliz Road, and Routes 94, 201, 603, and 794 along San Fernando Road. The Beeline Bus system includes Route 12 along San Fernando Road.

**D. Mitigation Measures**

If a project is large enough to require that a traffic impact analysis be prepared, and if the project adds traffic to an intersection above a minimum threshold, and if the intersection is operating at above an acceptable level of operation, then the project must mitigate its traffic impact.

Traffic mitigation can be in many forms including adding lanes. Lanes can sometimes be obtained through restriping or elimination of parking, and sometimes require spot roadway widening.

### **III. Project Description**

---

This section discusses the project's location and proposed development. Figure 1 shows the project location map and Figure 2 illustrates the site plan.

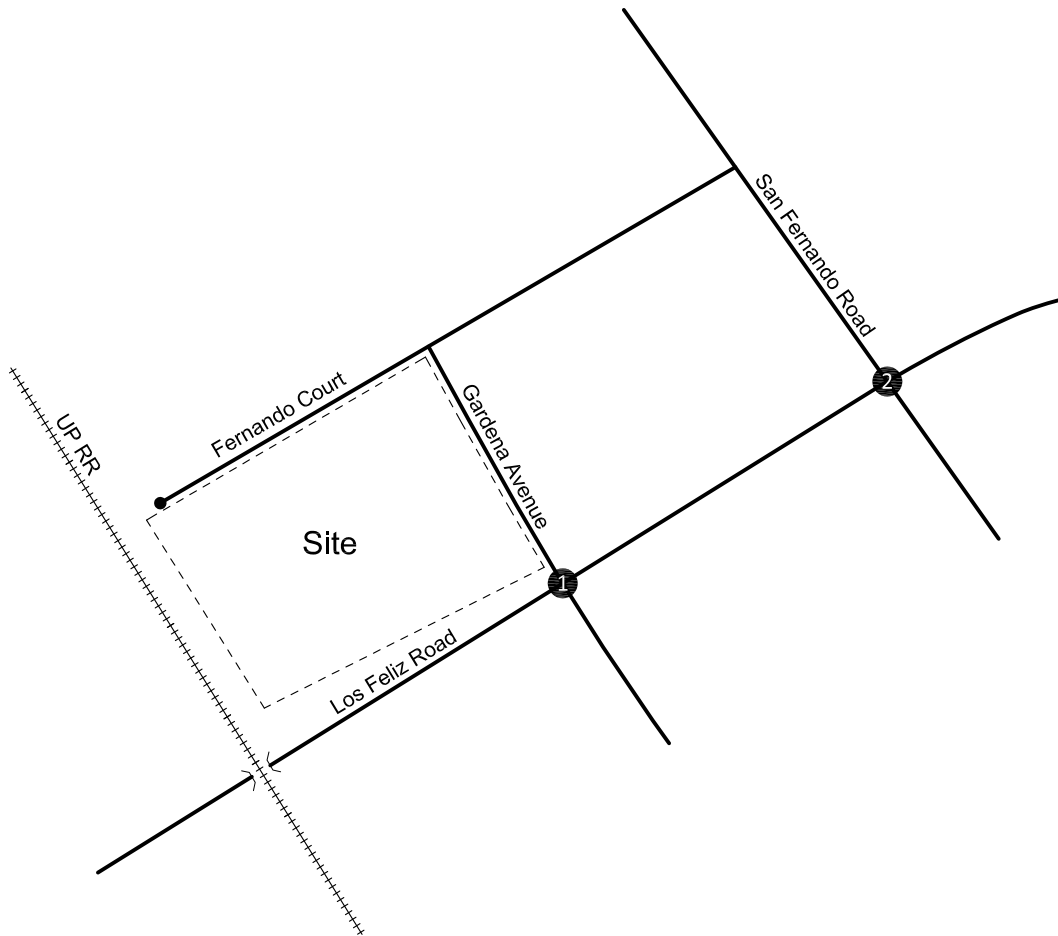
#### **A. Location**

The project site is located on the northwest corner of Gardena Avenue and Los Feliz Road in the City of Glendale.

#### **B. Proposed Development**

The proposed development consists of 238 dwelling units of mid-rise apartments. The project site will have driveway access via Fernando Court.

Figure 1  
Project Location Map



Legend

① = Intersection Reference Numbers



Figure 2  
Site Plan



## IV. Existing Conditions

---

---

The traffic conditions as they exist today are discussed below and illustrated on Figures 3 to 6.

### A. Surrounding Street System

The City of Glendale roadways that will be utilized by the development include Gardena Avenue, San Fernando Road, and Los Feliz Road.

Gardena Avenue: This north-south roadway currently is two lanes undivided in the study area. It currently carries approximately 1,500 to 3,600 vehicles per day in the study area.

San Fernando Road: This north-south roadway currently is four lanes undivided to four lanes divided in the study area. It currently carries approximately 16,300 to 19,900 vehicles per day in the study area.

Los Feliz Road: This east-west roadway currently is two lanes divided to four lanes undivided in the study area. It currently carries approximately 17,600 to 29,200 vehicles per day in the study area.

### B. Existing Travel Lanes and Intersection Controls

Figure 3 identifies the existing roadway conditions for study area roadways. The number of through lanes for existing roadways and the existing intersection controls are identified.

### C. Existing Average Daily Traffic Volumes

Figure 4 depicts the existing average daily traffic volumes. The existing average daily traffic volumes have been factored from peak hour counts obtained by Kunzman Associates, Inc. to Year 2012 (see Appendix B) using the following formula for each intersection leg:

$$\text{PM Peak Hour (Approach Volume + Exit Volume)} \times 10 = \text{Leg Volume.}$$

### D. Existing Levels of Service

In the City of Glendale, the technique used to assess the operation of a signalized intersection is known as Intersection Capacity Utilization, as described in Appendix C. To calculate an Intersection Capacity Utilization value, the volume of traffic using the intersection is compared with the capacity of the intersection. The Intersection Capacity Utilization represents that portion of the hour required to provide sufficient capacity to accommodate all intersection traffic if all approaches operate at capacity.

In the City of Glendale, the technique used to assess the capacity needs of an unsignalized intersection is known as the Intersection Delay Method (see Appendix C). To calculate delay, the volume of traffic using the intersection is compared with the capacity of the intersection.

The Levels of Service for the existing traffic conditions have been calculated and are shown in Table 1. Existing Levels of Service are based upon manual morning and evening peak hour intersection turning movement counts obtained by Kunzman Associates, Inc. and factored to Year 2012 (see Figures 5 and 6) utilizing an annual growth rate of 1% per year. Traffic count worksheets are provided in Appendix B.

There are two peak hours in a weekday. The morning peak hour is typically between 7:00 AM and 9:00 AM, and the evening peak hour is typically between 4:00 PM and 6:00 PM. The actual peak hour within the two hour interval is the four consecutive 15 minute periods with the highest total volume when all movements are added together. Thus, the evening peak hour at one intersection may be 4:45 PM to 5:45 PM if those four consecutive 15 minute periods have the highest combined volume.

The study area intersections currently operate at Level of Service E or better during the peak hours for existing traffic conditions (see Table 1). Existing Level of Service worksheets are provided in Appendix C.

**E. Transit Service**

Transit service is provided by the Los Angeles County Metropolitan Authority and Beeline Bus. The Los Angeles County Metropolitan Authority system includes Routes 180, 181, and 780 along Los Feliz Road, and Routes 94, 201, 603, and 794 along San Fernando Road. The Beeline Bus system includes Route 12 along San Fernando Road.

**Table 1**

**Existing Levels of Service**

Intersection	Traffic Control ³	Intersection Approach Lanes ¹												Peak Hour Level of Service ²	
		Northbound			Southbound			Eastbound			Westbound			Morning	Evening
		L	T	R	L	T	R	L	T	R	L	T	R		
Gardena Avenue (NS) at: Los Feliz Road (EW) - #1	TS	0	1	0	0	1	0	1	2	0	1	2	0	0.538-A	0.721-C
San Fernando Road (NS) at: Los Feliz Road (EW) - #2	TS	1	2	0	1	2	0	1	2	1	1	2	0	0.971-E	0.920-E

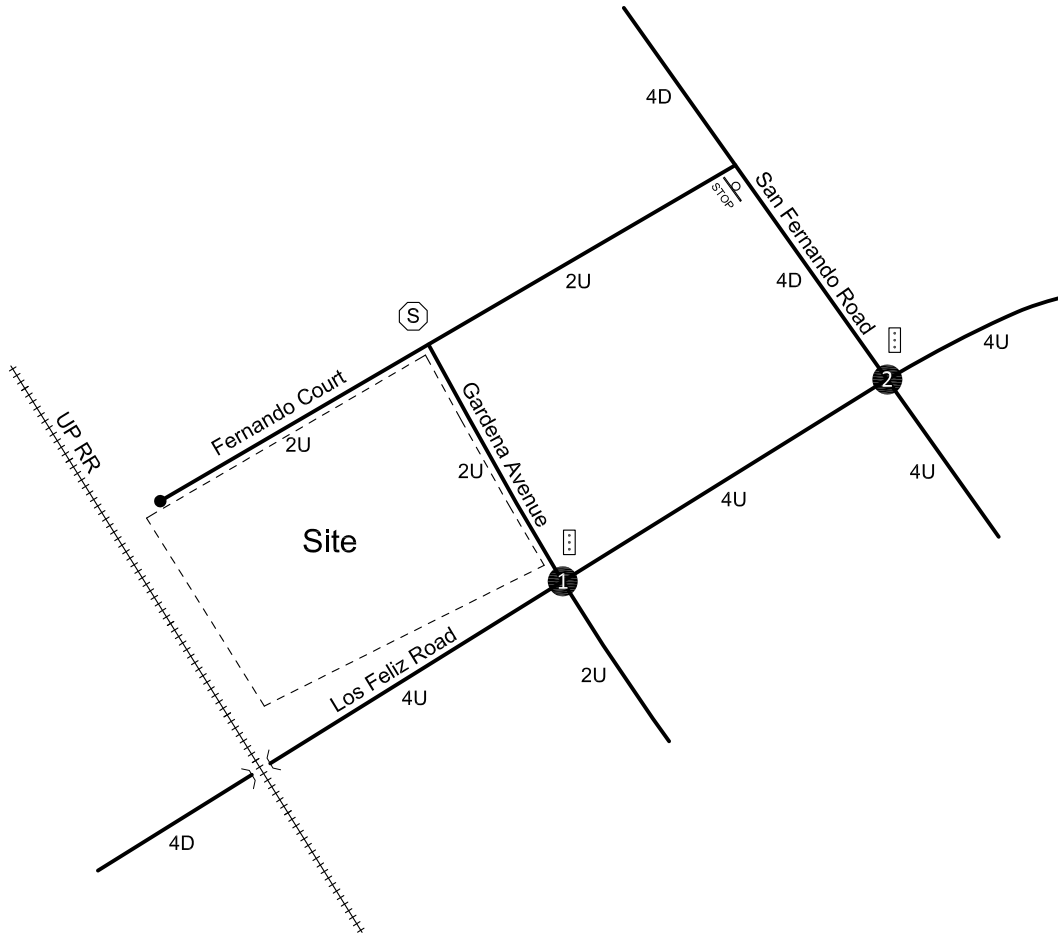
¹ L = Left; T = Through; R = Right

² Level of Service has been calculated using the following analysis software: Traffix, Version 7.9.0215 (2008).

³ TS = Traffic Signal



**Figure 3**  
Existing Travel Lanes and Intersection Controls



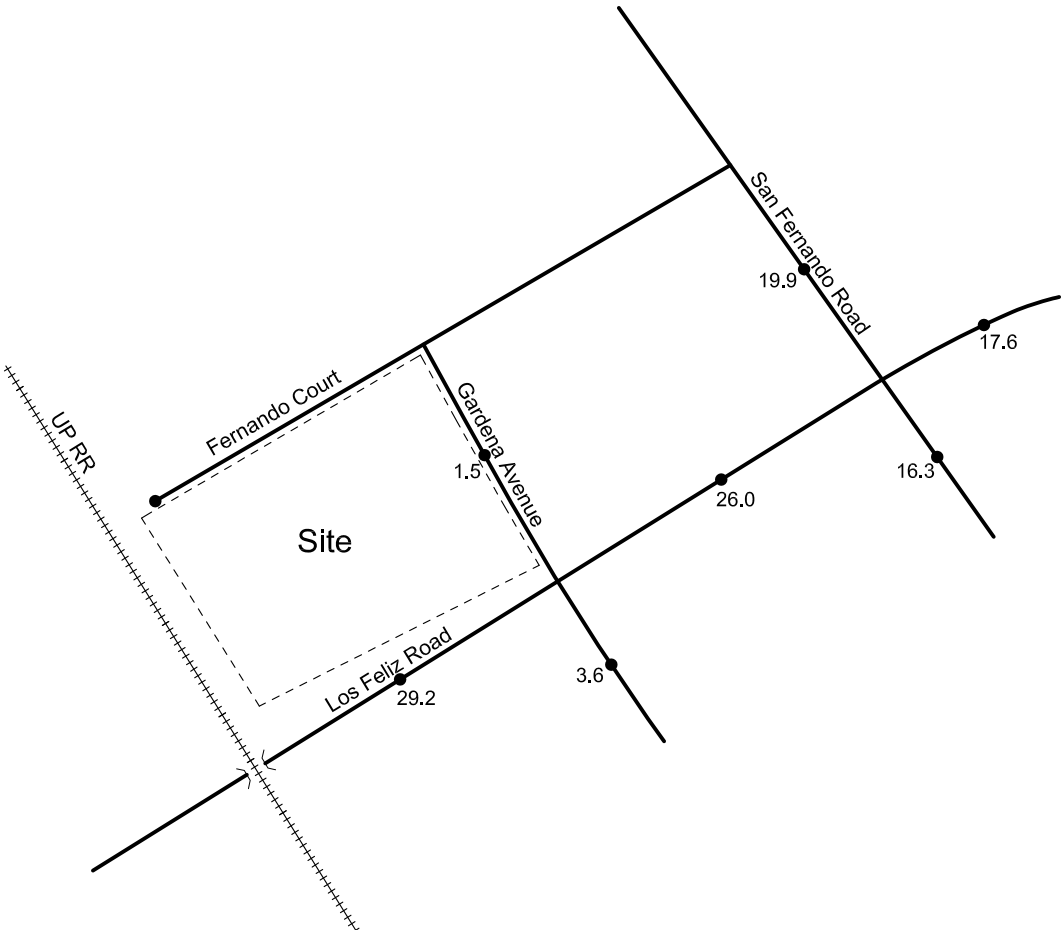
**Legend**

- = Traffic Signal
- = All Way Stop
- = Stop Sign
- 4 = Through Travel Lanes
- D = Divided
- U = Undivided

1	
Gardena Avenue/ Los Feliz Road	
2	
San Fernando Road/ Los Feliz Road	



Figure 4  
Existing Average Daily Traffic Volumes

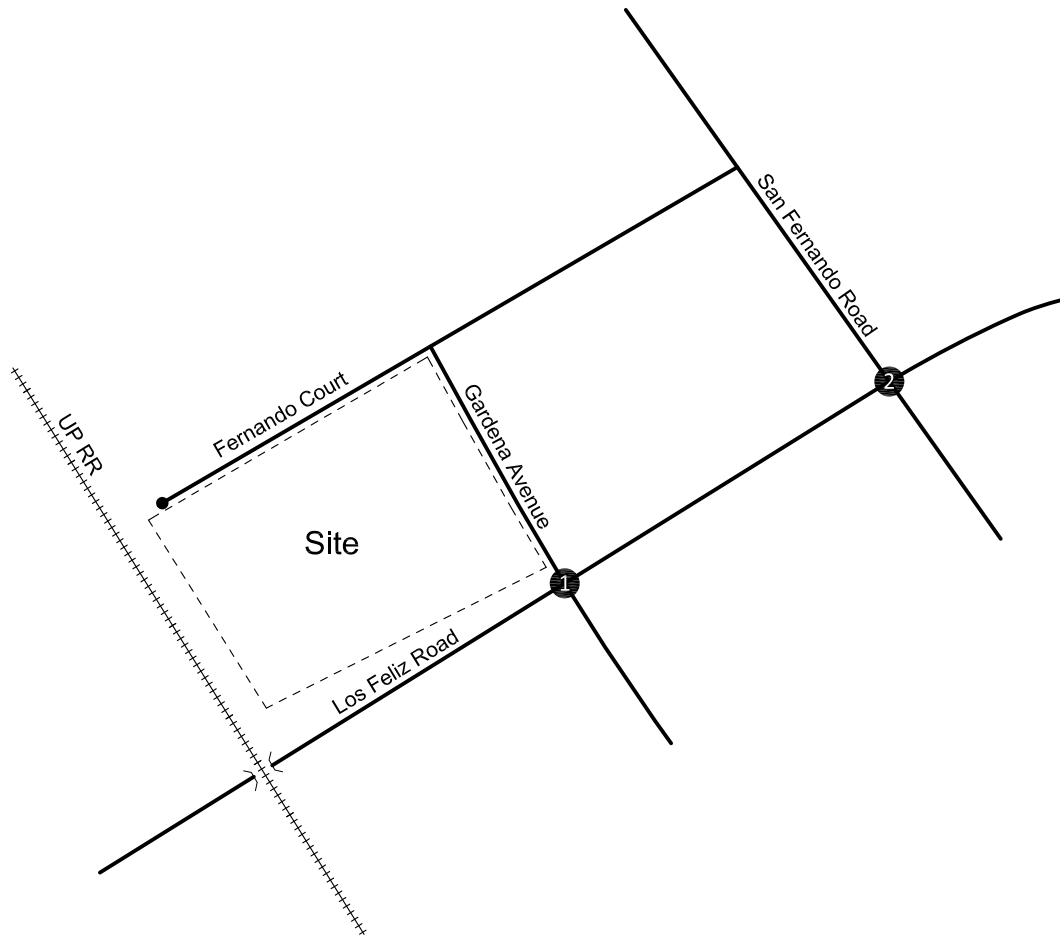


Legend

3.6 = Vehicles Per Day (1,000's)



Figure 5  
Existing Morning Peak Hour Intersection Turning Movement Volumes

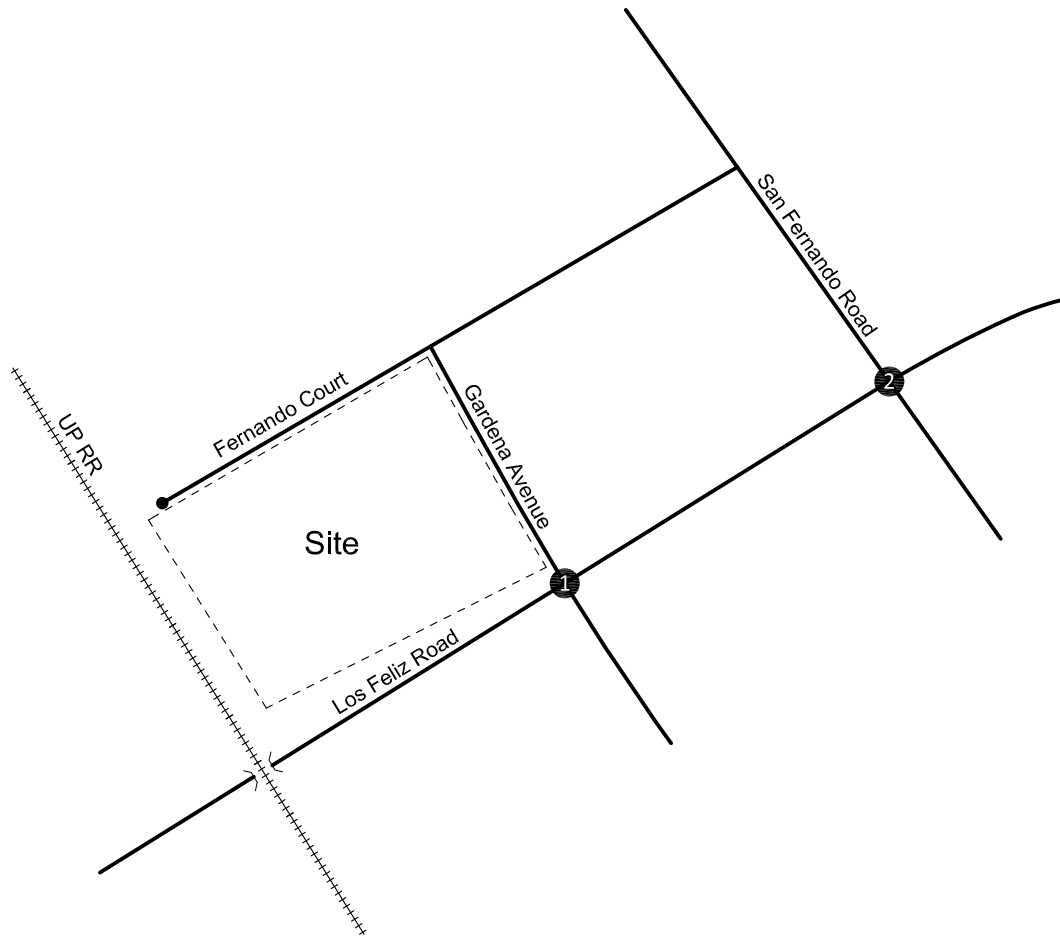


1			
← 68	↑ 19		
↓ 7	← 1082		
↘ 12	↘ 10 LFR		
5	↘	↘	↘
799 →	↘ 38	↘ 11	↘ 16
114 ↓	GA	LFR	LFR
Gardena Avenue/ Los Feliz Road			

2			
← 350	↑ 74		
↓ 804	← 828		
↘ 67	↘ 9 LFR		
206 →	↘	↘	↘
476 →	↘ 160	↘ 474	↘ 17
80 ↓	SFR	LFR	LFR
San Fernando Road/ Los Feliz Road			



Figure 6  
Existing Evening Peak Hour Intersection Turning Movement Volumes



1			
← 98	← 14	← 15	↑ 12
↓ 1252	→ 5	→ 7	↑ 1272
↓ 144	→ 146	→ 27	← 24 LFR
GA		LFR	
Gardena Avenue/ Los Feliz Road			
2			
← 314	← 620	← 51	↑ 64
↓ 292	→ 854	→ 156	↑ 731
↓ 141	→ 156	→ 649	← 32 LFR
SFR		LFR	
San Fernando Road/ Los Feliz Road			



## V. Project Traffic

---

---

The proposed development consists of 238 dwelling units of mid-rise apartments. The project site will have driveway access via Fernando Court.

### A. Trip Generation

The trips generated by the project is determined by multiplying an appropriate trip generation rate by the quantities of land uses. Trip generation rates are predicated on the assumption that energy costs, the availability of roadway capacity, the availability of vehicles to drive, and our life styles remain similar to what we know today. A major change in these variables may affect trip generation rates.

Trip generation rates were determined for daily traffic, morning peak hour inbound and outbound traffic, and evening peak hour inbound and outbound traffic for the proposed land uses. By multiplying the trip generation rates by the land use quantities, the traffic volumes are determined. Table 2 exhibits the trip generation rates, project peak hour volumes, and project daily traffic volumes. The trip generation rates are from the Institute of Transportation Engineers, Trip Generation, 8th Edition, 2008 and San Diego Association of Governments, Traffic Generators, April 2002.

The proposed development is projected to generate approximately 1,428 daily vehicle trips, 71 of which will occur during the morning peak hour and 93 of which will occur during the evening peak hour.

### B. Trip Distribution

To determine the trip distributions for the proposed project, peak hour traffic counts of the existing directional distribution of traffic for existing areas in the vicinity of the site, the City of Glendale computerized traffic model, and other additional information on future development and traffic impacts in the area were reviewed.

Figures 7 and 8 contain the directional distributions of the project traffic for the proposed land use.

### C. Trip Assignment

Based on the identified trip generation and distributions, project average daily traffic volumes have been calculated and shown on Figure 9. Morning and evening peak hour intersection turning movement volumes expected from the project are shown on Figures 10 and 11, respectively.

**Table 2**

**Project Trip Generation¹**

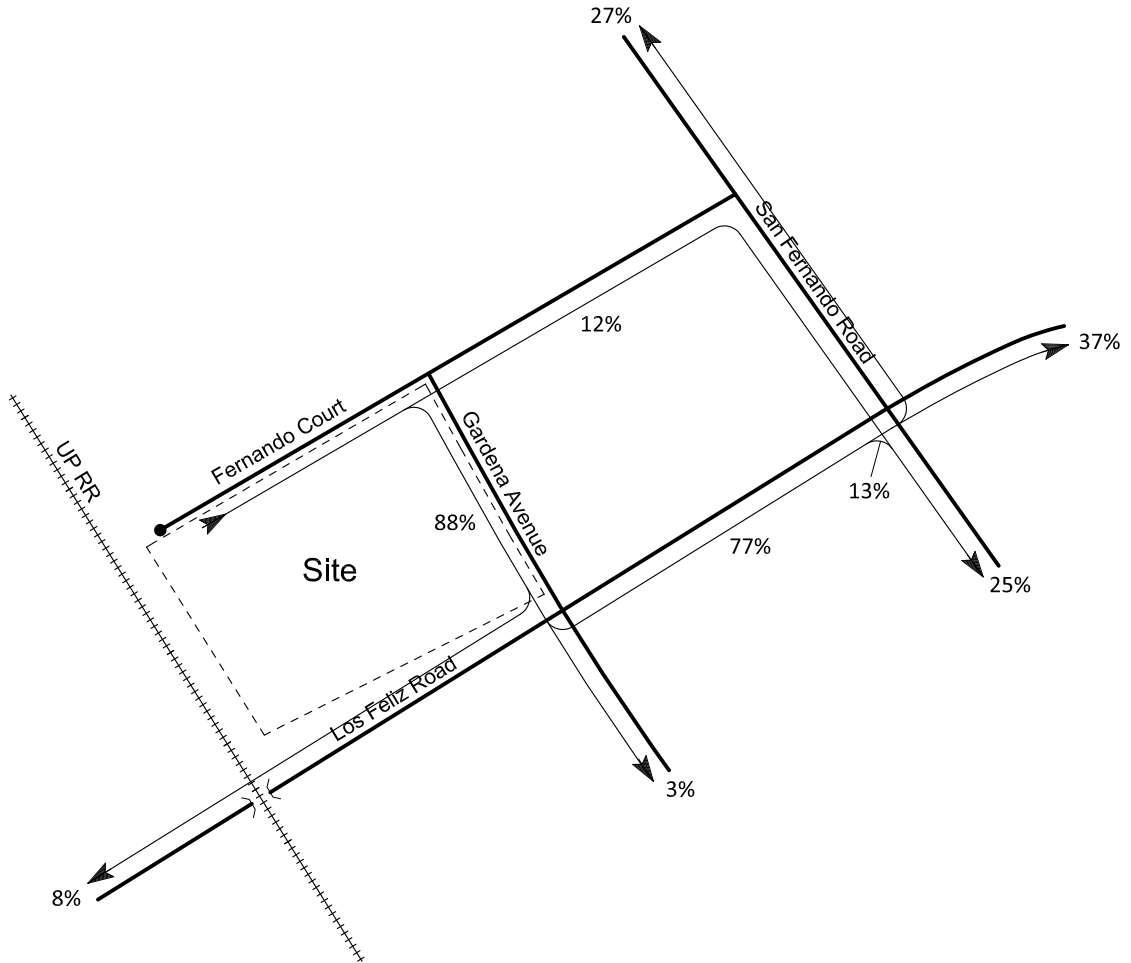
Land Use	Quantity	Units ²	Morning Peak Hour			Evening Peak Hour			Daily
			Inbound	Outbound	Total	Inbound	Outbound	Total	
<u>Trip Generation Rates</u>									
Mid-Rise Apartment ³	238	DU	0.09	0.21	0.30	0.23	0.16	0.39	6.00
<u>Trips Generated</u>									
Mid-Rise Apartment	238	DU	21	50	71	55	38	93	1,428

¹ Source: Institute of Transportation Engineers, Trip Generation, 8th Edition, 2008, Land Use Category 223.

² DU = Dwelling Unit

³ Source: San Diego Association of Governments, Traffic Generators, April 2002 for apartments daily rate.

Figure 7  
Project Outbound Trip Distribution



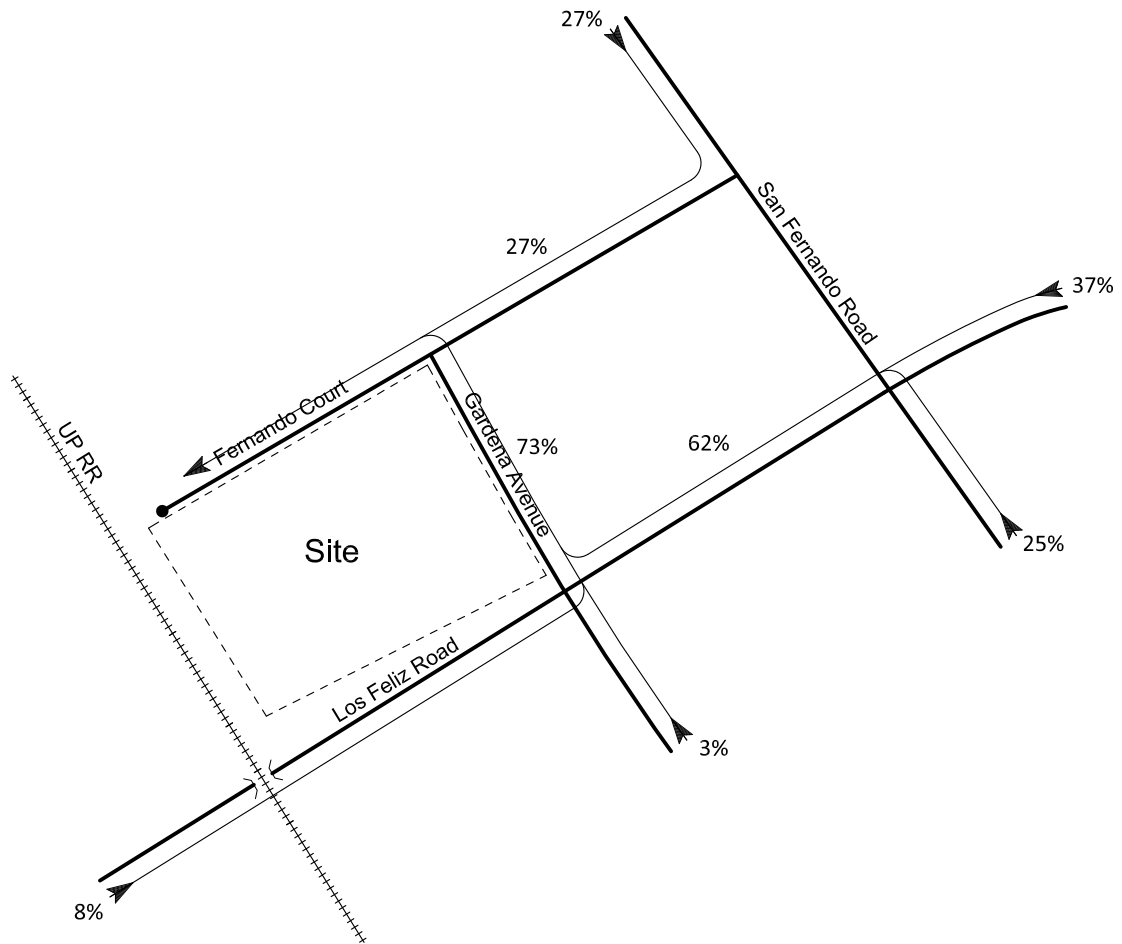
Legend

10% = Percent From Project



NTS

Figure 8  
Project Inbound Trip Distribution



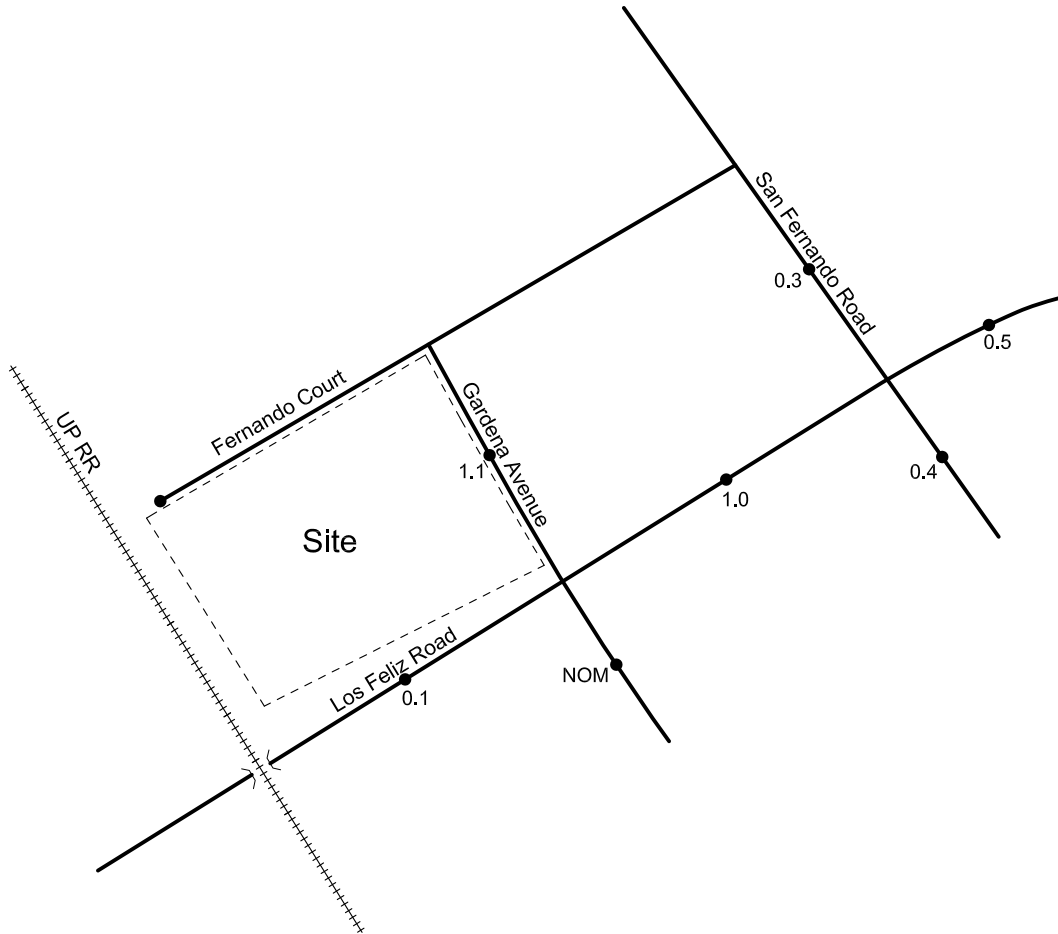
Legend

10% = Percent To Project





Figure 9  
Project Average Daily Traffic Volumes

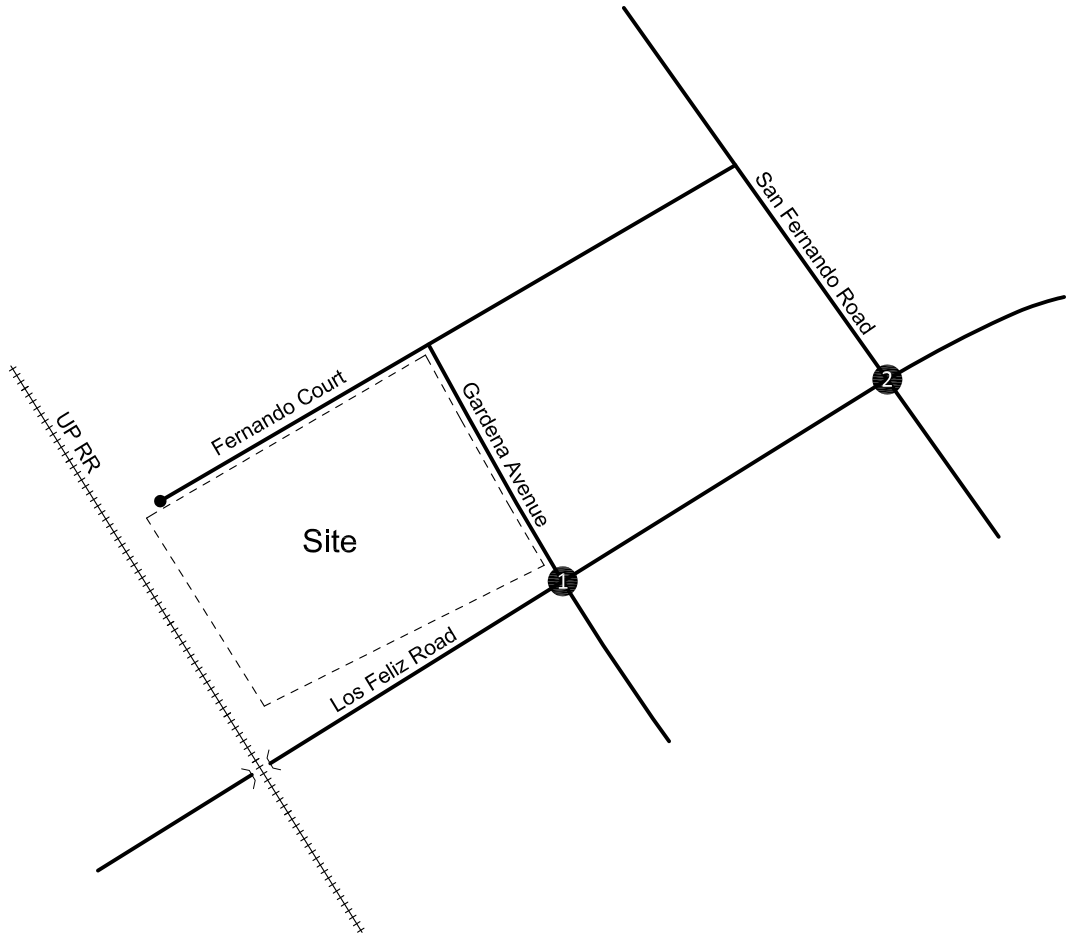


Legend

0.1 = Vehicles Per Day (1,000's)  
 NOM = Nominal, Less Than 50  
 Vehicles Per Day



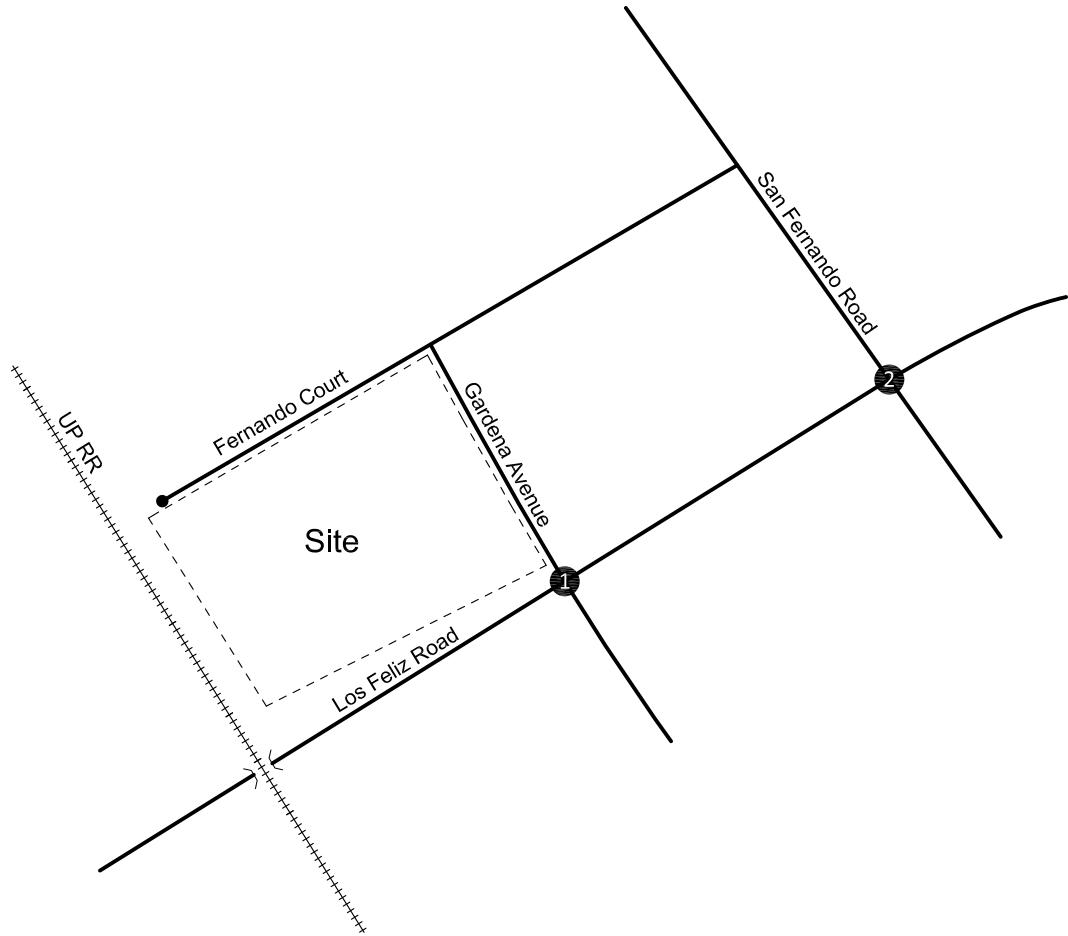
Figure 10  
Project Morning Peak Hour Intersection Turning Movement Volumes



1		2	
↖ 4	↘ 2	↖ 0	↘ 0
↙ 39	↗ 13	↙ 6	↗ 8
↔ 0	↔ 0	↔ 0	↔ 0
↕ 0	↕ 0	↕ 0	↕ 0
GA	LFR	SFR	LFR
Gardena Avenue/ Los Feliz Road		San Fernando Road/ Los Feliz Road	



Figure 11  
 Project Evening Peak Hour Intersection Turning Movement Volumes



1	↙ 3 ↓ 1 ↘ 29	↑ 34 ← 0 → 0 ↙ 0 LFR
4 → 0 → 0 ↓	↙ 4 ↑ 2 ↘ 0	↑ P LFR
Gardena Avenue/ Los Feliz Road		

2	↙ 0 ↓ 5 ↘ 0	↑ 0 ← 20 → 0 ↙ 0 LFR
10 → 14 → 5 ↓	↙ 4 ↑ 0 ↘ 0	↑ P LFR
San Fernando Road/ Los Feliz Road		



## **VI. Existing Plus Project Traffic Conditions**

---

---

In this section, Existing Plus Project traffic conditions are discussed. Existing Plus Project traffic conditions are assumed for Year 2012. Figures 12 to 14 depict the Existing Plus Project traffic conditions.

### **A. Method of Projection**

To assess Existing Plus Project traffic conditions, existing traffic is combined with the project.

### **B. Existing Plus Project Average Daily Traffic Volumes**

Existing Plus Project average daily traffic volumes are as illustrated on Figure 12.

### **C. Existing Plus Project Levels of Service**

In the City of Glendale, the technique used to assess the operation of a signalized intersection is known as Intersection Capacity Utilization, as described in Appendix C. To calculate an Intersection Capacity Utilization value, the volume of traffic using the intersection is compared with the capacity of the intersection. The Intersection Capacity Utilization represents that portion of the hour required to provide sufficient capacity to accommodate all intersection traffic if all approaches operate at capacity.

In the City of Glendale, the technique used to assess the capacity needs of an unsignalized intersection is known as the Intersection Delay Method (see Appendix C). To calculate delay, the volume of traffic using the intersection is compared with the capacity of the intersection.

Existing Plus Project morning and evening peak hour intersection turning movement volumes are shown on Figures 13 and 14, respectively. The Levels of Service for the Existing Plus Project traffic conditions have been calculated and are shown in Table 3. Existing Plus Project Level of Service worksheets are provided in Appendix C.

### **D. Significant Transportation Impact for Intersections**

In the City of Glendale, the impact is considered significant for signalized intersections if the project related increase in the volume to capacity ratio equals or exceeds 0.02 that have Level of Service D or worse. The impact is considered significant for unsignalized intersections if the project related increase in the delay equals or exceeds 3 seconds that have Levels of Service D, E, or F.

Table 3 depicts the Existing Plus Project traffic Levels of Service at the 2 study area intersections. As shown in Table 3, the project significantly impacts the following study area intersection during the evening peak hour assuming no improvements:

San Fernando Road (NS) at:  
Los Feliz Road (EW) - #2 – No Mitigation

A significant and unmitigable impact would occur during the evening peak hour at this intersection. The increase is 0.024 during the evening peak hour. This is a nominal increase over the City of Glendale threshold of 0.020.

**Table 3**

**Existing Plus Project Levels of Service**

Intersection	Peak Hour	Existing Peak Hour Level of Service	Existing Plus Project					
			Without Mitigation			With Mitigation ¹		
			Peak Hour Level of Service	Project Impact	Significant Impact?	Peak Hour Level of Service	Project Impact	Significant Impact?
Gardena Avenue (NS) at: Los Feliz Road (EW) - #1	Morning	0.538 - A	0.573 - A	0.035	No	0.540 - A	0.002	No
	Evening	0.721 - C	0.742 - C	0.021	No	0.714 - C	-0.007	No
San Fernando Road (NS) at: Los Feliz Road (EW) - #2	Morning	0.971 - E	0.988 - E	0.017	No			
	Evening	0.920 - E	0.944 - E	0.024	Yes			

¹ See Table 4 for mitigation.

² In the City of Glendale, the impact is considered significant for signalized intersections if the project related increase in the volume to capacity ratio equals or exceeds 0.02 that have Level of Service D or worse. For nonsignalized intersections, the impact is considered significant if the intersection delay increases by 3 seconds or more for Level of Service D or worse.

**Table 4**

**Existing Plus Project Mitigation Measures**

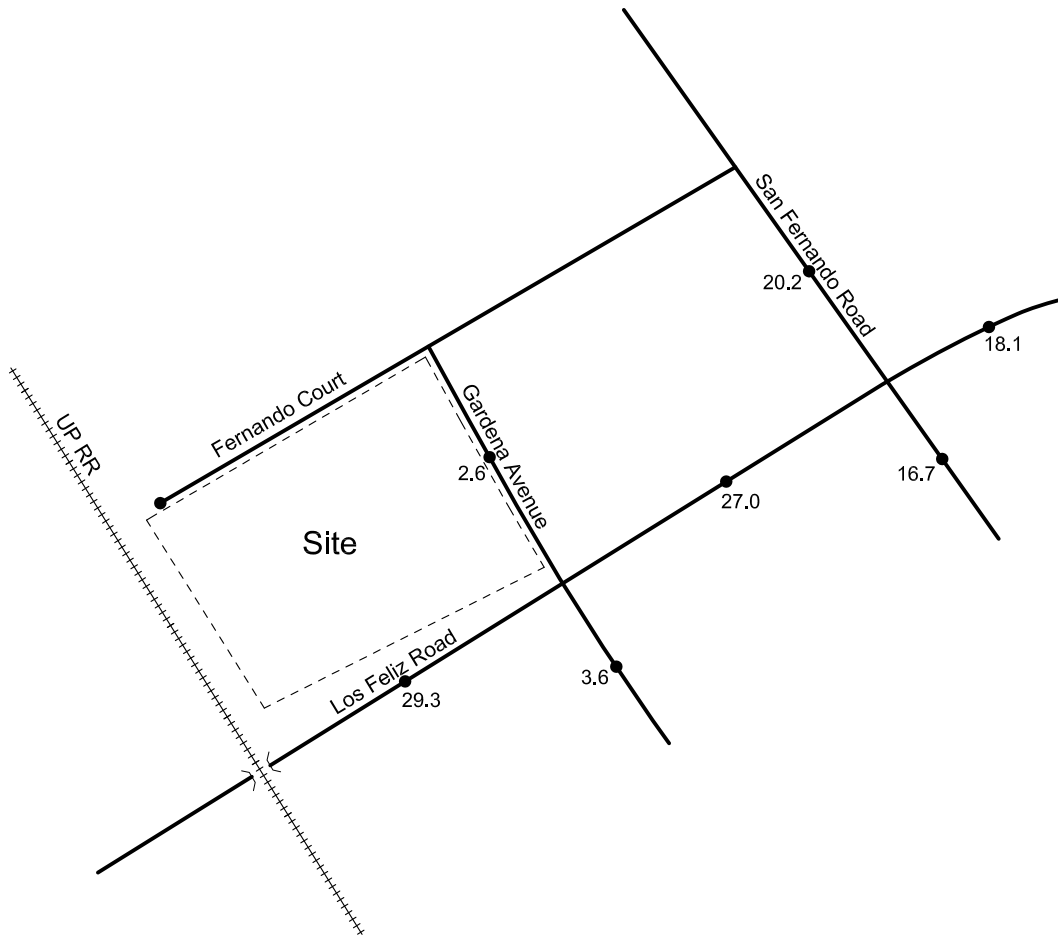
Intersection	Traffic Control ³	Intersection Approach Lanes ¹												Peak Hour Level of Service ²	
		Northbound			Southbound			Eastbound			Westbound			Morning	Evening
		L	T	R	L	T	R	L	T	R	L	T	R		
Gardena Avenue (NS) at: Los Feliz Road (EW) - #1	TS	0	1	0	0	1	0	1	2	0	1	2	0	0.573-A	0.742-C
- With Improvements	TS	<u>1</u>	1	0	<u>1</u>	1	0	1	2	0	1	2	0	0.540-A	0.714-C
San Fernando Road (NS) at: Los Feliz Road (EW) - #2	TS	1	2	0	1	2	0	1	2	1	1	2	0	0.988-E	0.944-E

¹ L = Left; T = Through; R = Right

² Level of Service has been calculated using the following analysis software: Traffix, Version 7.9.0215 (2008).

³ TS = Traffic Signal

Figure 12  
Existing Plus Project Average Daily Traffic Volumes



Legend

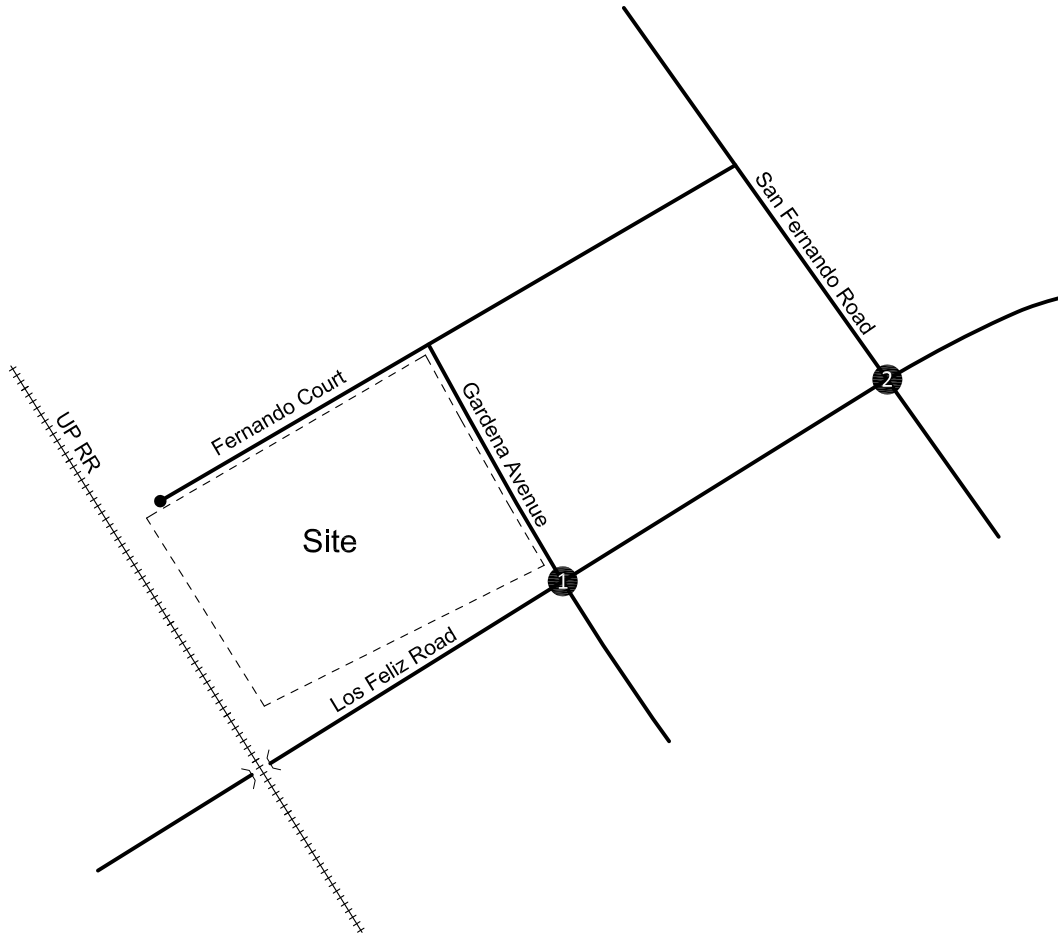
3.6 = Vehicles Per Day (1,000's)



NTS



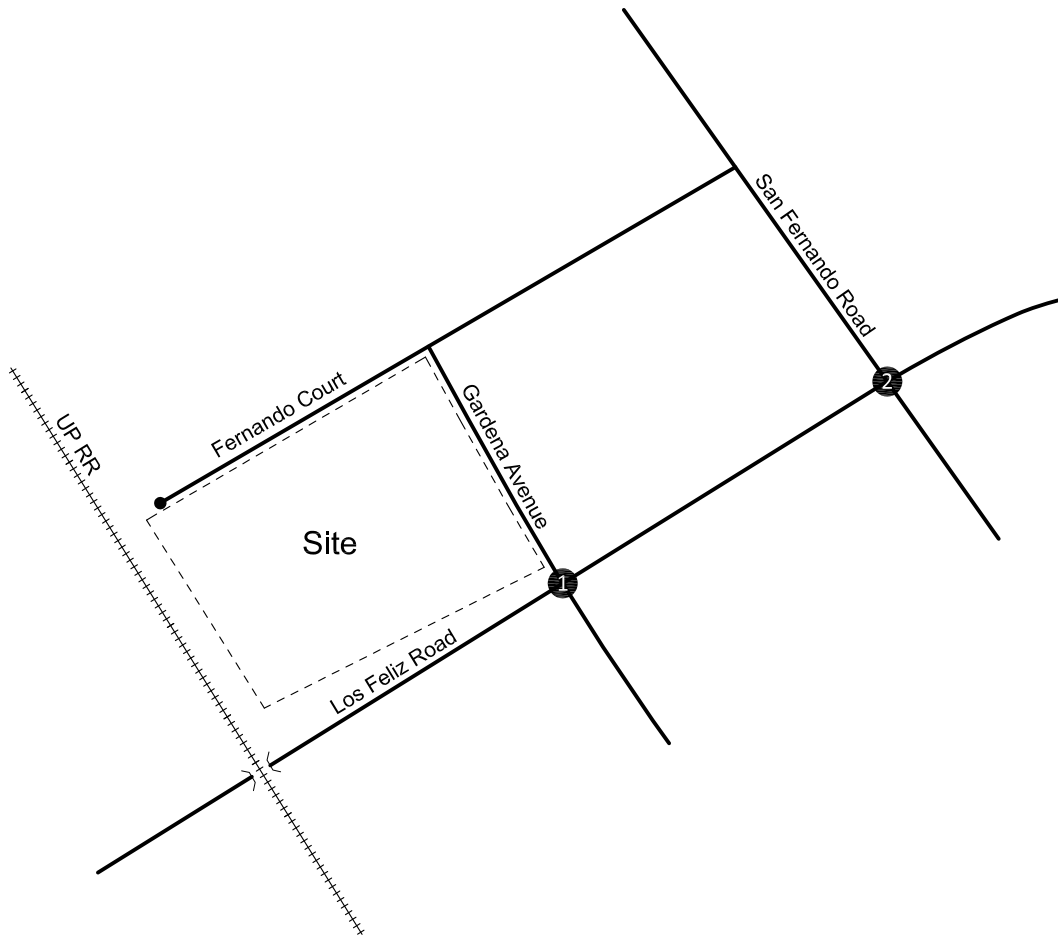
Figure 13  
Existing Plus Project  
Morning Peak Hour Intersection Turning Movement Volumes



1		2	
↔ 72	↔ 32	↔ 350	↔ 74
↔ 9	↔ 1082	↔ 811	↔ 837
↔ 53	↔ 10 LFR	↔ 67	↔ 9 LFR
7	↔	221	↔
799	↔	496	↔
114	↔	87	↔
GA	↔	SFR	↔
38	↔	165	↔
12	↔	474	↔
16	↔	17	↔
Gardena Avenue/ Los Feliz Road		San Fernando Road/ Los Feliz Road	



Figure 14  
Existing Plus Project  
Evening Peak Hour Intersection Turning Movement Volumes



1			
← 101	← 15	← 45	↑ 48
← 1252	← 9	← 27	↑ 1272
← 144	← 146	← 9	↑ 24 LFR
GA		LFR	

Gardena Avenue/  
Los Feliz Road

2			
← 314	← 625	← 51	↑ 64
← 302	← 868	← 27	↑ 752
← 146	← 171	← 649	↑ 32 LFR
SFR		LFR	

San Fernando Road/  
Los Feliz Road



## **VII. Year 2014 Without Project Traffic Conditions**

---

---

In this section, Year 2014 Without Project traffic conditions are discussed. Figures 15 to 18 depict the Year 2014 Without Project traffic conditions.

### **A. Method of Projection**

To assess Year 2014 Without Project traffic conditions, existing traffic is combined with related projects and areawide growth. Table 5 lists the proposed land uses for the related projects (see Figure 15).

For Year 2014 Without Project traffic conditions, an annual growth rate has been utilized to account for areawide growth on study area roadways. Per the City of Glendale Traffic & Transportation Division, the traffic counts have been applied with an annual growth rate of 1% per year to Year 2014.

Related projects and areawide growth have been added to daily and peak hour traffic volumes on surrounding roadways.

### **B. Year 2014 Without Project Average Daily Traffic Volumes**

Year 2014 Without Project average daily traffic volumes are as illustrated on Figure 16.

### **C. Year 2014 Without Project Levels of Service**

In the City of Glendale, the technique used to assess the operation of a signalized intersection is known as Intersection Capacity Utilization, as described in Appendix C. To calculate an Intersection Capacity Utilization value, the volume of traffic using the intersection is compared with the capacity of the intersection. The Intersection Capacity Utilization represents that portion of the hour required to provide sufficient capacity to accommodate all intersection traffic if all approaches operate at capacity.

In the City of Glendale, the technique used to assess the capacity needs of an unsignalized intersection is known as the Intersection Delay Method (see Appendix C). To calculate delay, the volume of traffic using the intersection is compared with the capacity of the intersection.

Year 2014 Without Project morning and evening peak hour intersection turning movement volumes are shown on Figures 17 and 18, respectively. The Levels of Service for the Year 2014 Without Project traffic conditions have been calculated and are shown in Table 6. Year 2014 Without Project Level of Service worksheets are provided in Appendix C.

**Table 5**  
**Related Projects Trip Generation¹**

TAZ	Project Location	Land Use ²	Quantity	Units ³	Peak Hour						Daily
					Morning			Evening			
					Inbound	Outbound	Total	Inbound	Outbound	Total	
1	525 W. Elk Avenue	Multi-Family	71	DU	7	29	36	28	16	44	472
	463 Salem Street	Multi-Family	10	DU	1	4	5	4	2	6	67
	524 W. Colorado Street	Multi-Family	200	DU	20	82	102	80	44	124	1,330
	544 W. Elk Avenue	Commercial Retail	8.30	TSF	5	3	8	15	16	31	356
	889 Americana Way	Commercial Retail	119.12	TSF	73	46	119	218	226	444	5,115
	370 Salem Street	Multi-Family	17	DU	2	7	9	7	4	11	113
	604-610 W. Broadway	Office	12.80	TSF	17	2	19	3	16	19	141
		Commercial Retail	1.62	TSF	1	1	2	3	3	6	70
352 W. Chevy Chase Drive	Multi-Family	7	DU	1	3	4	3	2	5	47	
2	200 S. Louise Street	Office	3.24	TSF	4	1	5	1	4	5	36
	118 S. Kenwood Street	Multi-Family	35	DU	4	14	18	14	8	22	233
	145 N Jackson Street	Office	2.5	TSF	3	0	3	1	3	4	27
	100 W. Wilson	Commercial Retail	10.00	TSF	6	4	10	18	19	37	429
		Multi-Family	243	DU	24	100	124	97	53	150	1,616
	327 Salem Street	Multi-Family	44	DU	4	18	22	18	10	28	293
	224 S. Jackson	Multi-Family	17	DU	2	7	9	7	4	11	113
		Commercial Retail	11.37	TSF	7	4	11	21	22	43	488
		Office	11.33	TSF	15	2	17	3	14	17	125
	111 N. Louise Street	Multi-Family	63	DU	6	26	32	25	14	39	419
	128-132 Kenwood Street	Multi-Family	28	DU	3	11	14	11	6	17	186
	111 E. Wilson Avenue	Multi-Family	42	DU	4	17	21	17	9	26	279
	and 215 N. Maryland Avenue	Movie Theater	9.69	TSF	1	1	2	56	4	60	756
	225 Wilson Avenue	Hotel	172	RM	58	57	115	53	48	101	1,405
		Restaurant	1.95	TST	12	11	23	13	9	22	248
	300 N. Central Avenue	Multi-Family	80	DU	8	33	41	32	18	50	532
		Commercial Retail	1.24	TSF	1	0	1	2	2	4	53
	301 N. Central Avenue	Multi-Family	84	DU	8	34	42	34	18	52	559
		Commercial Retail	3.00	TSF	2	1	3	5	6	11	129
	320-324 N. Central Avenue; 208 W. Lexington Drive; and 317-345 N. Orange Street	Multi-Family	310	DU	31	127	158	124	68	192	2,062
185 N. Orange Street	Multi-Family	201	DU	20	82	102	80	44	124	1,337	
	Restaurant	2.65	TSF	16	15	31	17	12	29	337	
200 E. Broadway	Multi-Family	248	DU	25	102	127	99	55	154	1,649	
	Restaurant	26.64	TSF	160	147	307	175	122	297	3,388	
124 W. Colorado Street	Multi-Family	50	DU	5	21	26	20	11	31	333	
432 Myrtle Street	Multi-Family	4	DU	0	2	2	2	1	3	27	
3	1360 E. Colorado Street	Office	1.82	TSF	2	0	2	0	2	2	20
		Commercial Retail	12.09	TSF	7	5	12	22	23	45	519
	228 S. Jackson	Multi-Family	28	DU	3	11	14	11	6	17	186
		Office	11.47	TSF	16	2	18	3	14	17	126
611 E. Acacia Avenue	Multi-Family	12	DU	1	5	6	5	3	8	80	
810 S. Maryland Avenue	City Park	0.49	AC	0	0	0	0	0	0	1	
4	1110 S. Central Avenue	Office	4.50	TSF	6	1	7	1	6	7	50
<b>Total</b>					<b>591</b>	<b>1,038</b>	<b>1,629</b>	<b>1,348</b>	<b>967</b>	<b>2,315</b>	<b>25,752</b>

¹ Source: City of Glendale List of Entitled and Reasonable Foreseeable Projects.

² Source: Institute of Transportation Engineers, Trip Generation, 8th Edition, 2008, Land Use Categories 220, 310, 411, 443, 710, 820, and 932.

³ DU = Dwelling Units; TSF = Thousand Square Feet; RM = Rooms; AC = Acres

**Table 6**

**Year 2014 Without Project Levels of Service**

Intersection	Traffic Control ³	Intersection Approach Lanes ¹												Peak Hour Level of Service ²	
		Northbound			Southbound			Eastbound			Westbound			Morning	Evening
		L	T	R	L	T	R	L	T	R	L	T	R		
Gardena Avenue (NS) at: Los Feliz Road (EW) - #1	TS	0	1	0	0	1	0	1	2	0	1	2	0	0.564-A	0.755-C
San Fernando Road (NS) at: Los Feliz Road (EW) - #2	TS	1	2	<u>1</u> ⁴	1	2	0	1	2	1	1	2	0	1.015-F	0.976-E

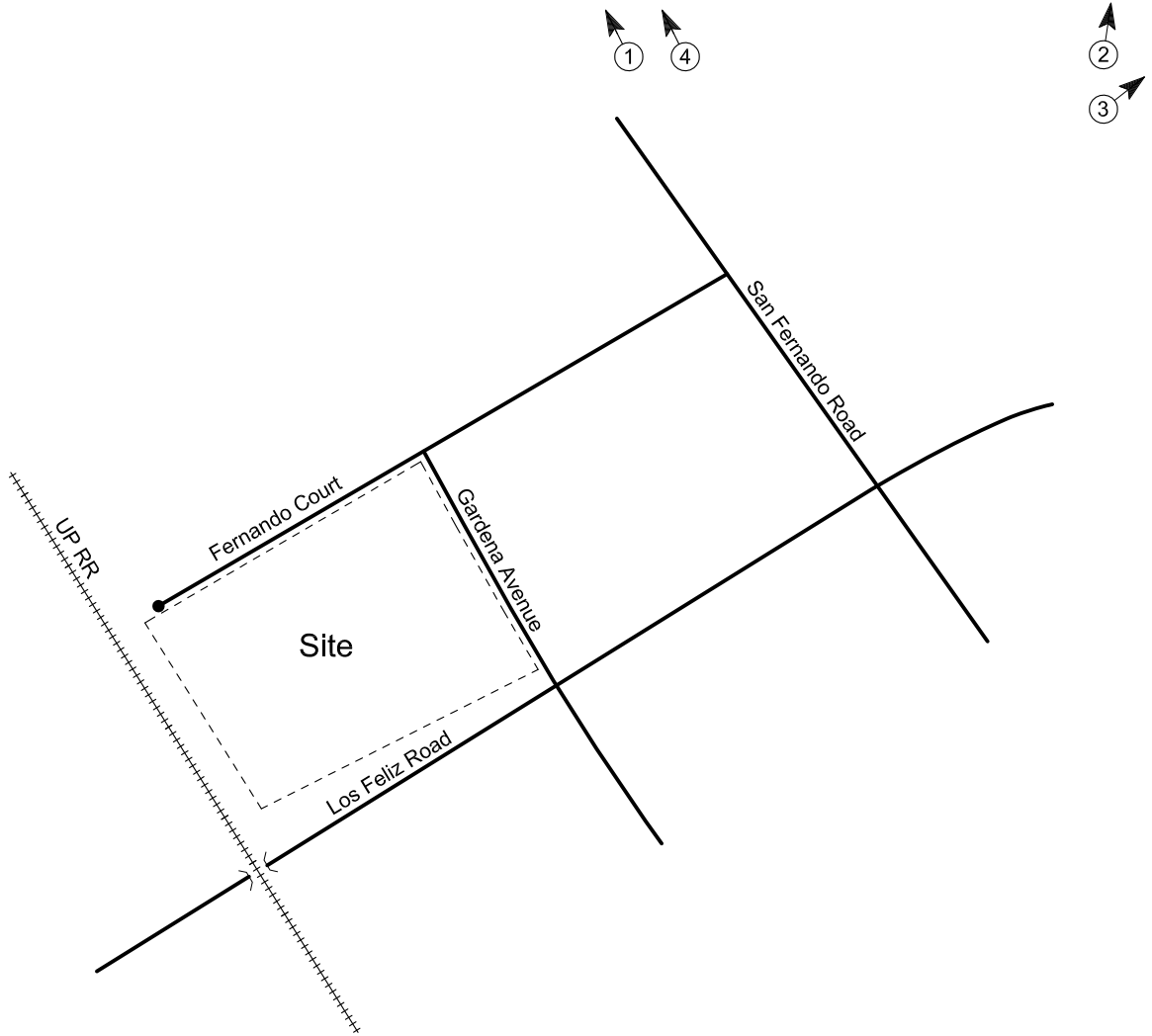
¹ L = Left; T = Through; R = Right; 1 = Improvement

² Level of Service has been calculated using the following analysis software: Traffix, Version 7.9.0215 (2008).

³ TS = Traffic Signal

⁴ The improvement is scheduled to be constructed by the Glendale Triangle project.

Figure 15  
Related Projects Traffic Analysis Zone Map

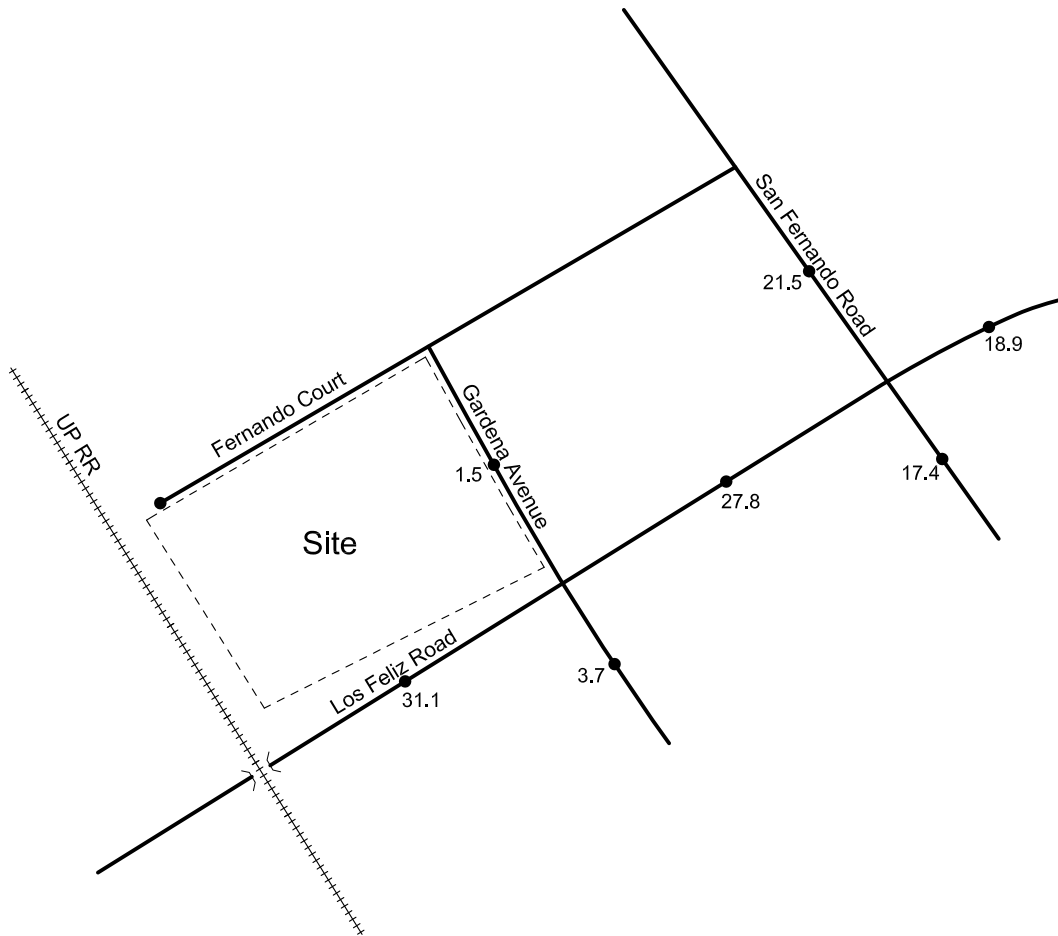


Legend

① = Traffic Analysis Zone Number



Figure 16  
 Year 2014 Without Project  
 Average Daily Traffic Volumes

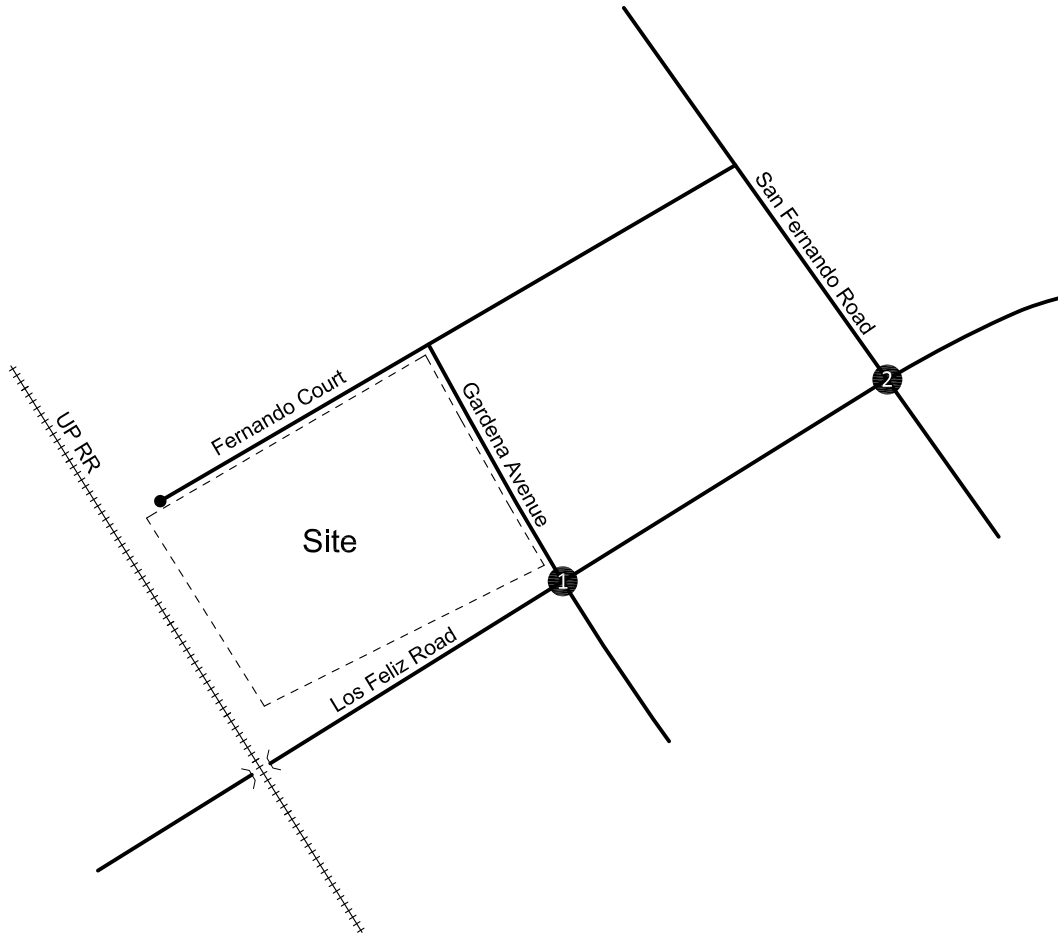


Legend

3.7 = Vehicles Per Day (1,000's)



Figure 17  
 Year 2014 Without Project  
 Morning Peak Hour Intersection Turning Movement Volumes

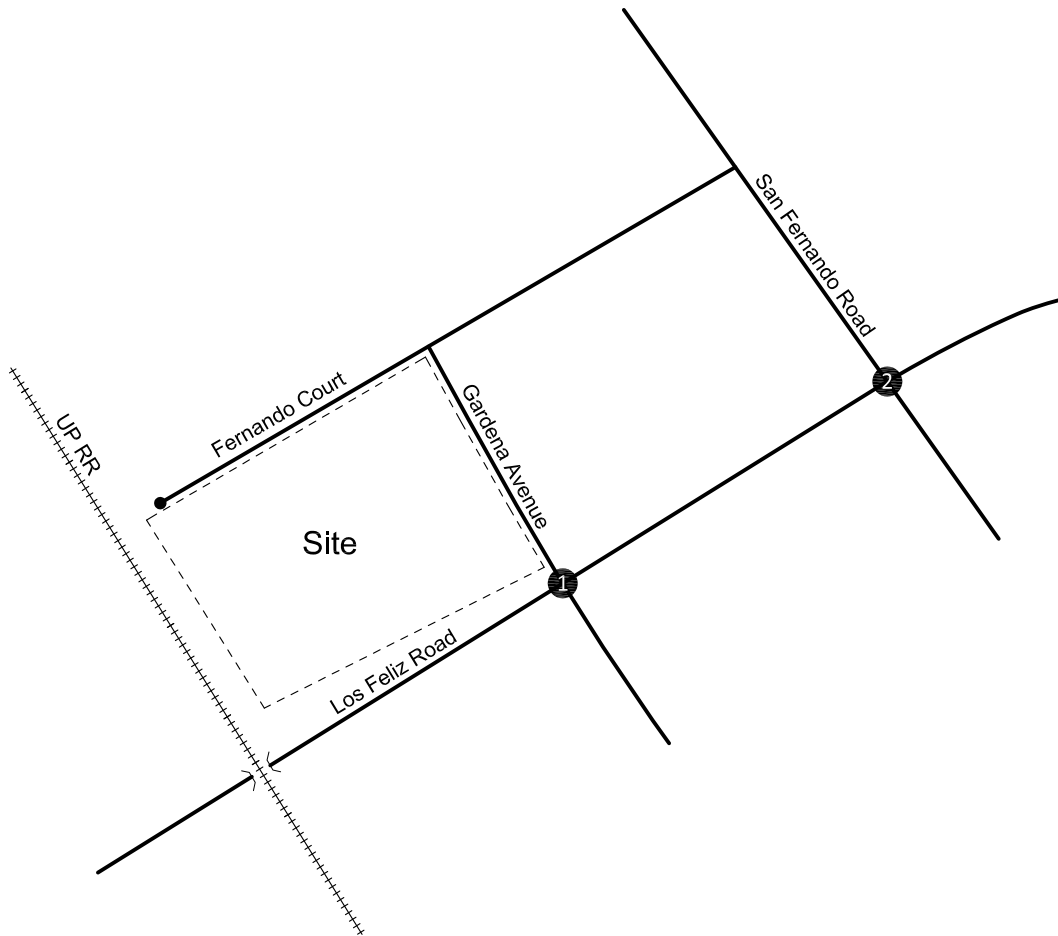


<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4" style="text-align: left;">1</td> </tr> <tr> <td style="text-align: right;">← 69</td> <td style="text-align: right;">← 7</td> <td style="text-align: right;">↑ 19</td> <td style="text-align: right;">↑ 1159</td> </tr> <tr> <td style="text-align: right;">← 13</td> <td style="text-align: right;">← 11 LFR</td> <td style="text-align: right;">← 11</td> <td style="text-align: right;">← 11</td> </tr> <tr> <td style="text-align: right;">5</td> <td style="text-align: right;">← 4</td> <td style="text-align: right;">← 4</td> <td style="text-align: right;">← 4</td> </tr> <tr> <td style="text-align: right;">850</td> <td style="text-align: right;">← 12</td> <td style="text-align: right;">← 12</td> <td style="text-align: right;">← 16</td> </tr> <tr> <td style="text-align: right;">117</td> <td style="text-align: right;">← 39</td> <td style="text-align: right;">← 12</td> <td style="text-align: right;">← 16</td> </tr> <tr> <td></td> <td style="text-align: right;">GA</td> <td></td> <td style="text-align: right;">LFR</td> </tr> <tr> <td colspan="4">Gardena Avenue/ Los Feliz Road</td> </tr> </table>	1				← 69	← 7	↑ 19	↑ 1159	← 13	← 11 LFR	← 11	← 11	5	← 4	← 4	← 4	850	← 12	← 12	← 16	117	← 39	← 12	← 16		GA		LFR	Gardena Avenue/ Los Feliz Road				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4" style="text-align: left;">2</td> </tr> <tr> <td style="text-align: right;">← 366</td> <td style="text-align: right;">← 839</td> <td style="text-align: right;">↑ 75</td> <td style="text-align: right;">↑ 891</td> </tr> <tr> <td style="text-align: right;">← 68</td> <td style="text-align: right;">← 10 LFR</td> <td style="text-align: right;">← 10</td> <td style="text-align: right;">← 10</td> </tr> <tr> <td style="text-align: right;">216</td> <td style="text-align: right;">← 4</td> <td style="text-align: right;">← 4</td> <td style="text-align: right;">← 4</td> </tr> <tr> <td style="text-align: right;">514</td> <td style="text-align: right;">← 163</td> <td style="text-align: right;">← 163</td> <td style="text-align: right;">← 17</td> </tr> <tr> <td style="text-align: right;">81</td> <td style="text-align: right;">← 496</td> <td style="text-align: right;">← 496</td> <td style="text-align: right;">← 17</td> </tr> <tr> <td></td> <td style="text-align: right;">SFR</td> <td></td> <td style="text-align: right;">LFR</td> </tr> <tr> <td colspan="4">San Fernando Road/ Los Feliz Road</td> </tr> </table>	2				← 366	← 839	↑ 75	↑ 891	← 68	← 10 LFR	← 10	← 10	216	← 4	← 4	← 4	514	← 163	← 163	← 17	81	← 496	← 496	← 17		SFR		LFR	San Fernando Road/ Los Feliz Road			
1																																																																	
← 69	← 7	↑ 19	↑ 1159																																																														
← 13	← 11 LFR	← 11	← 11																																																														
5	← 4	← 4	← 4																																																														
850	← 12	← 12	← 16																																																														
117	← 39	← 12	← 16																																																														
	GA		LFR																																																														
Gardena Avenue/ Los Feliz Road																																																																	
2																																																																	
← 366	← 839	↑ 75	↑ 891																																																														
← 68	← 10 LFR	← 10	← 10																																																														
216	← 4	← 4	← 4																																																														
514	← 163	← 163	← 17																																																														
81	← 496	← 496	← 17																																																														
	SFR		LFR																																																														
San Fernando Road/ Los Feliz Road																																																																	





Figure 18  
Year 2014 Without Project  
Evening Peak Hour Intersection Turning Movement Volumes



<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: left; padding: 2px;">1</td> <td style="text-align: right; padding: 2px;">13</td> </tr> <tr> <td style="text-align: center; padding: 2px;">↙ 100</td> <td style="text-align: center; padding: 2px;">↖ 1353</td> </tr> <tr> <td style="text-align: center; padding: 2px;">↘ 14</td> <td style="text-align: center; padding: 2px;">↗ 24 LFR</td> </tr> <tr> <td style="text-align: center; padding: 2px;">↔ 15</td> <td style="text-align: center; padding: 2px;">↘ 7</td> </tr> <tr> <td style="text-align: center; padding: 2px;">↖ 5</td> <td style="text-align: center; padding: 2px;">↗ 28</td> </tr> <tr> <td style="text-align: center; padding: 2px;">↘ 1348</td> <td style="text-align: center; padding: 2px;">↖ 146</td> </tr> <tr> <td style="text-align: center; padding: 2px;">↔ 146</td> <td style="text-align: center; padding: 2px;">↗ 28</td> </tr> <tr> <td style="text-align: center; padding: 2px;">↖ GA</td> <td style="text-align: center; padding: 2px;">↗ LFR</td> </tr> </table> <p style="text-align: center; font-size: small;">Gardena Avenue/ Los Feliz Road</p>	1	13	↙ 100	↖ 1353	↘ 14	↗ 24 LFR	↔ 15	↘ 7	↖ 5	↗ 28	↘ 1348	↖ 146	↔ 146	↗ 28	↖ GA	↗ LFR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: left; padding: 2px;">2</td> <td style="text-align: right; padding: 2px;">65</td> </tr> <tr> <td style="text-align: center; padding: 2px;">↙ 337</td> <td style="text-align: center; padding: 2px;">↖ 783</td> </tr> <tr> <td style="text-align: center; padding: 2px;">↘ 667</td> <td style="text-align: center; padding: 2px;">↗ 32 LFR</td> </tr> <tr> <td style="text-align: center; padding: 2px;">↔ 52</td> <td style="text-align: center; padding: 2px;">↘ 7</td> </tr> <tr> <td style="text-align: center; padding: 2px;">↖ 317</td> <td style="text-align: center; padding: 2px;">↗ 28</td> </tr> <tr> <td style="text-align: center; padding: 2px;">↘ 923</td> <td style="text-align: center; padding: 2px;">↖ 700</td> </tr> <tr> <td style="text-align: center; padding: 2px;">↔ 143</td> <td style="text-align: center; padding: 2px;">↗ 28</td> </tr> <tr> <td style="text-align: center; padding: 2px;">↖ SFR</td> <td style="text-align: center; padding: 2px;">↗ LFR</td> </tr> </table> <p style="text-align: center; font-size: small;">San Fernando Road/ Los Feliz Road</p>	2	65	↙ 337	↖ 783	↘ 667	↗ 32 LFR	↔ 52	↘ 7	↖ 317	↗ 28	↘ 923	↖ 700	↔ 143	↗ 28	↖ SFR	↗ LFR
1	13																																
↙ 100	↖ 1353																																
↘ 14	↗ 24 LFR																																
↔ 15	↘ 7																																
↖ 5	↗ 28																																
↘ 1348	↖ 146																																
↔ 146	↗ 28																																
↖ GA	↗ LFR																																
2	65																																
↙ 337	↖ 783																																
↘ 667	↗ 32 LFR																																
↔ 52	↘ 7																																
↖ 317	↗ 28																																
↘ 923	↖ 700																																
↔ 143	↗ 28																																
↖ SFR	↗ LFR																																



## VIII. Year 2014 With Project Traffic Conditions

---

---

In this section, Year 2014 With Project traffic conditions are discussed. Figures 19 to 21 depict the Year 2014 With Project traffic conditions.

### A. Method of Projection

To assess Year 2014 With Project traffic conditions, existing traffic is combined with the traffic of the project, related projects, and areawide growth.

For Year 2014 With Project traffic conditions, an annual growth rate has been utilized to account for areawide growth on study area roadways. Per the City of Glendale Traffic & Transportation Division, the traffic counts have been applied with an annual growth rate of 1% per year to Year 2014.

Related projects and areawide growth have been added to daily and peak hour traffic volumes on surrounding roadways, in addition to trips generated by the project.

### B. Year 2014 With Project Average Daily Traffic Volumes

Year 2014 With Project average daily traffic volumes are as illustrated on Figure 19.

### C. Year 2014 With Project Levels of Service

In the City of Glendale, the technique used to assess the operation of a signalized intersection is known as Intersection Capacity Utilization, as described in Appendix C. To calculate an Intersection Capacity Utilization value, the volume of traffic using the intersection is compared with the capacity of the intersection. The Intersection Capacity Utilization represents that portion of the hour required to provide sufficient capacity to accommodate all intersection traffic if all approaches operate at capacity.

In the City of Glendale, the technique used to assess the capacity needs of an unsignalized intersection is known as the Intersection Delay Method (see Appendix C). To calculate delay, the volume of traffic using the intersection is compared with the capacity of the intersection.

Year 2014 With Project morning and evening peak hour intersection turning movement volumes are shown on Figures 20 and 21, respectively. The Levels of Service for the Year 2014 With Project traffic conditions have been calculated and are shown in Table 7. Year 2014 With Project Level of Service worksheets are provided in Appendix C.

### D. Significant Transportation Impact for Intersections

In the City of Glendale, the impact is considered significant for intersections if the project related increase in the volume to capacity ratio equals or exceeds 0.02 that have Level of Service D or worse. The impact is considered significant for unsignalized intersections if the

project related increase in the delay equals or exceeds 3 seconds that have Levels of Service D, E, or F.

Table 7 depicts the Year 2012 With Project traffic Levels of Service at the 2 study area intersections. As shown in Table 7, the project significantly impacts the following study area intersection during the evening peak hour assuming no improvements:

San Fernando Road (NS) at:  
Los Feliz Road (EW) - #2

A significant and unmitigable impact would occur during the evening peak hour at this intersection. The increase is 0.024 during the evening peak hour. This is a nominal increase over the City of Glendale threshold of 0.020.

**Table 7**

**Year 2014 With Project Levels of Service**

Intersection	Peak Hour	Year 2012	Year 2012 With Project					
		Without Project	Without Mitigation			With Mitigation ¹		
		Peak Hour Level of Service	Peak Hour Level of Service	Project Impact	Significant Impact?	Peak Hour Level of Service	Project Impact	Significant Impact?
Gardena Avenue (NS) at: Los Feliz Road (EW) - #1	Morning	0.564 - A	0.600 - A	0.036	No	0.566 - A	0.002	No
	Evening	0.755 - C	0.777 - C	0.022	No	0.749 - C	-0.006	No
San Fernando Road (NS) at: Los Feliz Road (EW) - #2	Morning	1.015 - F	1.033 - F	0.018	No			
	Evening	0.976 - E	1.000 - F	0.024	Yes			

¹ See Table 8 for mitigation.

² In the City of Glendale, the impact is considered significant for signalized intersections if the project related increase in the volume to capacity ratio equals or exceeds 0.02 that have Level of Service D or worse. For nonsignalized intersections, the impact is considered significant if the intersection delay increases by 3 seconds or more for Level of Service D or worse.

**Table 8**

**Year 2014 With Project Mitigation Measures**

Intersection	Traffic Control ³	Intersection Approach Lanes ¹												Peak Hour Level of Service ²	
		Northbound			Southbound			Eastbound			Westbound			Morning	Evening
		L	T	R	L	T	R	L	T	R	L	T	R		
Gardena Avenue (NS) at: Los Feliz Road (EW) - #1	TS	0	1	0	0	1	0	1	2	0	1	2	0	0.600-A	0.777-C
- With Improvements	TS	<u>1</u>	1	0	<u>1</u>	1	0	1	2	0	1	2	0	0.566-A	0.749-C
San Fernando Road (NS) at: Los Feliz Road (EW) - #2	TS	1	2	<u>1</u> ⁴	1	2	0	1	2	1	1	2	0	1.033-F	1.000-F

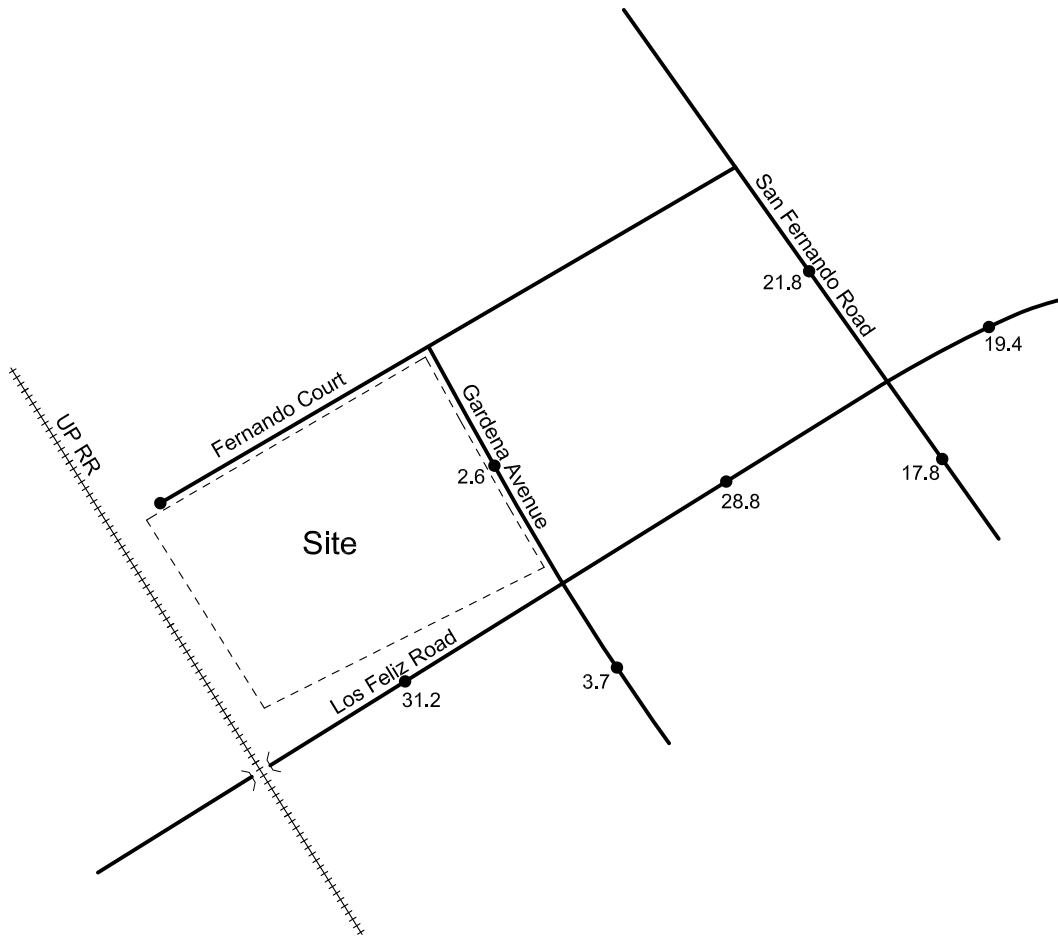
¹ L = Left; T = Through; R = Right; 1 = Improvement

² Level of Service has been calculated using the following analysis software: Traffix, Version 7.9.0215 (2008).

³ TS = Traffic Signal

⁴ The improvement is scheduled to be constructed by the Glendale Triangle project.

Figure 19  
Year 2014 With Project  
Average Daily Traffic Volumes



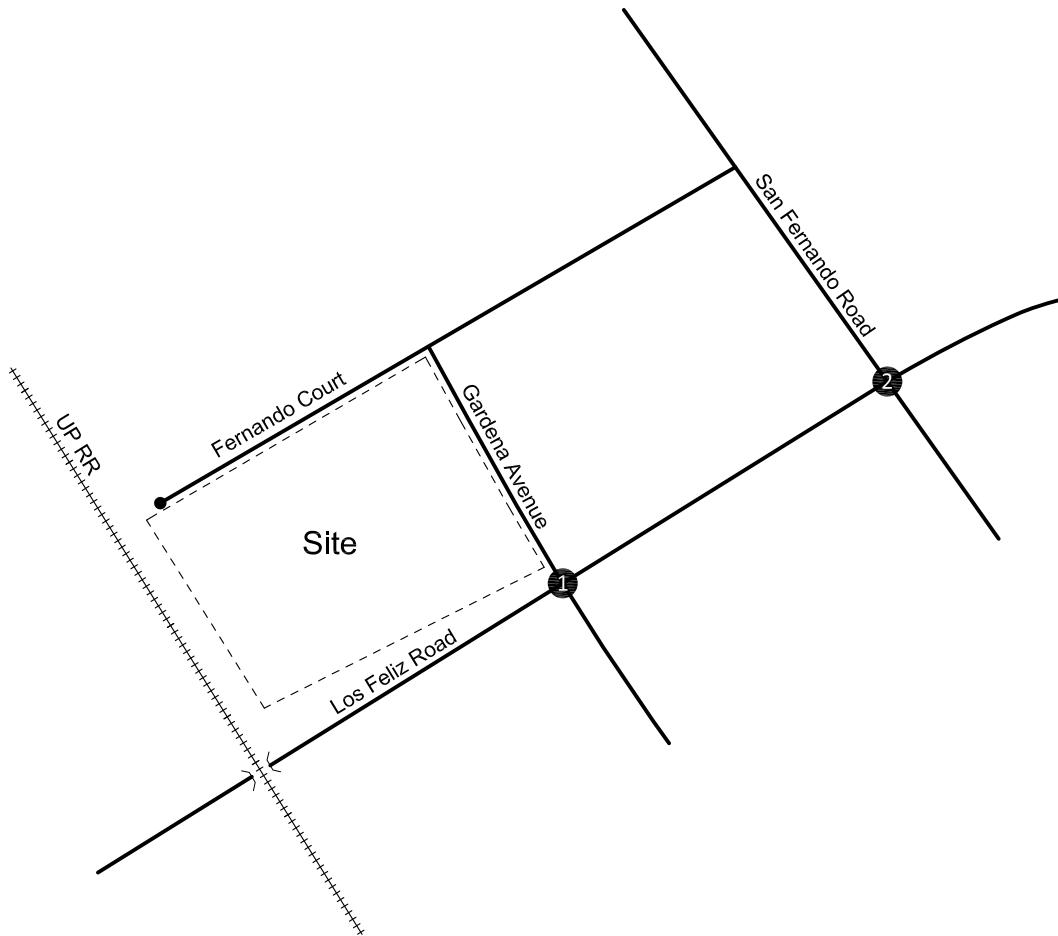
Legend

3.7 = Vehicles Per Day (1,000's)



NTS

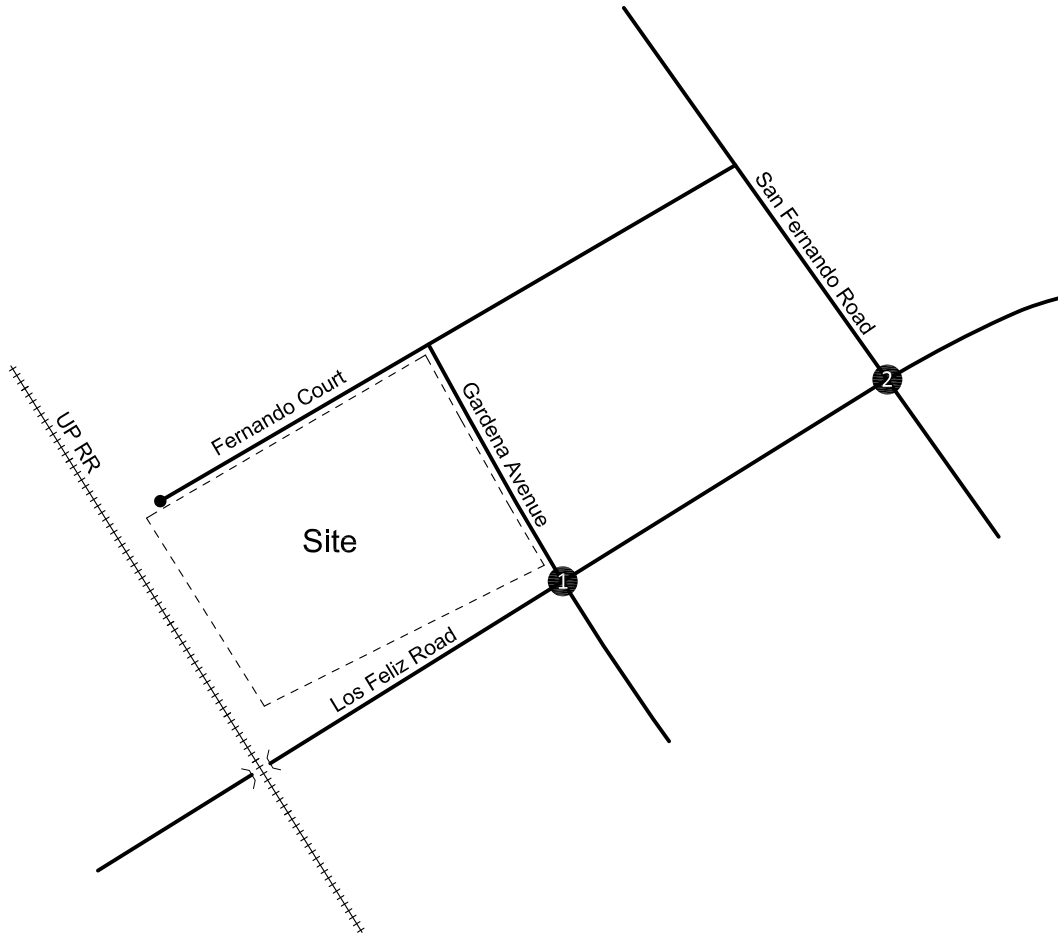
Figure 20  
 Year 2014 With Project  
 Morning Peak Hour Intersection Turning Movement Volumes



1		2	
↙ 73	↘ 54	↙ 366	↘ 68
↖ 10	↗ 1159	↖ 845	↗ 900
↔ 11 LFR	↔ 11 LFR	↔ 10 LFR	↔ 10 LFR
↔ 7 GA	↔ 13 GA	↔ 231 SFR	↔ 17 SFR
↔ 850	↔ 16	↔ 534	↔ 496
↔ 117		↔ 89	
Gardena Avenue/ Los Feliz Road		San Fernando Road/ Los Feliz Road	



Figure 21  
 Year 2014 With Project  
 Evening Peak Hour Intersection Turning Movement Volumes



1			
← 103	← 15	← 46	↑ 49
← 1348	← 24	← LFR	↑ 1353
10	10	10	28
1348	146	GA	LFR
Gardena Avenue/ Los Feliz Road			

2			
← 337	← 671	← 52	↑ 65
← 327	← 938	← 700	↑ 805
149	174	700	28
149	SFR	LFR	LFR
San Fernando Road/ Los Feliz Road			





## **IX. Construction Traffic Analysis**

---

---

This section discusses the construction traffic analysis. The project construction would generate traffic from construction worker travel, the arrival and departure of trucks delivering construction materials, and the removal of debris generated by on-site demolition activities. Both the number of construction workers and trucks would vary throughout the construction process in order to maintain a reasonable schedule of completion.

The construction of the project is anticipated to consist of three phases: (1) demolition, (2) grading/excavation, and (3) above-grade building construction. The project does not have a basement level. The total construction period is anticipated to last approximately 18 months.

### **A. Construction Phases**

#### Demolition

This phase of construction would include the demolition and removal of the existing foundation structures. Removal of materials would involve the use of standard construction equipment such as loaders, dozers, backhoes, cranes, and other related equipment. The duration for this phase of construction is anticipated to be approximately 1 week. This work is anticipated to produce approximately 1,000 cubic yards of export material. This corresponds to approximately 70 trucks, assuming tandem trucks with the capacity to carry up to 14 cubic yards of material per truck. With a five day construction work week and 1 week duration, this phase of construction is anticipated to generate no more than 70 truck loads as a whole.

#### Grading/Excavation

The grading phase would include the excavation of existing fill materials and replacement with properly compacted fill materials. Heavy construction equipment would be located on-site during grading activities and would not travel to and from the project site on a daily basis. It is anticipated that equipment needs associated with grading activities would include loaders, dozers, scrapers, compactors, vibratory rollers, and other related heavy-duty equipment. Because there is no basement level, and the project site is relatively flat, the project would likely produce no more than an estimated 100 cubic yards of soil/material export. This corresponds to approximately 7 truck loads, assuming tandem trucks with the capacity to carry 14 cubic yards of material per truck. Therefore, although there will be grading work, there will be very little soil export from the project site, no more than a day's worth of truck/trailer loads for the project as a whole. The phase is anticipated to be completed in approximately 1 month.

#### Above-Grade Building Construction

This phase would include the above-grade structure construction of the project. It is anticipated that equipment needs associated with above-grade construction activities would include loaders, dozers, cranes, pumps, and various miscellaneous machinery and

related equipment. During the peak period of this construction phase, a work force of 150 construction workers would be necessary, while a work force of 100 to 150 construction workers are anticipated for the latter portion of this construction phase. Material delivery trucks and other miscellaneous trucks are anticipated during this phase of construction. This work would likely produce approximately 6 to 7 material delivery trucks trips per day, although deliveries are not envisioned to occur for each day of this phase. This phase is anticipated to be completed in approximately 14-3/4 months.

**B. Impact Analysis**

The number of construction worker vehicles is estimated using the average ridership of 1.135 persons per vehicle per the CEQA Air Quality Handbook, South Coast Air Quality Management District. The typical construction activity is anticipated to begin at 7:00 AM and end at 4:00 PM. In general, the majority of the construction workers are expected to arrive at the project site during off-peak hours (i.e., arrive prior to 7:00 AM). It is anticipated that the majority of the construction workers would remain on-site throughout the day and would not leave the site for lunch via their vehicles. The truck delivery period has been assumed for eight hours per day (beginning at 7:00 AM, with the last delivery at 3:00 PM). A Passenger Car Equivalent factor of 2.0 has been assumed.

Based on the information provided by the applicant, the construction workers will park off-site at a nearby church parking lot located within 0.5 miles from the site at the intersection of Revere Avenue/Los Feliz Boulevard. Shuttle services will be provided by the project applicant between the off-site parking area and the project site. The shuttle bus(es) will use the following travel route to/from the site: (1) Exit site at Gardena Avenue and travel west on Los Feliz Boulevard; (2) Turn north on Revere Avenue at Los Feliz Boulevard.

The proposed development construction is projected to generate a maximum of approximately 346 daily vehicle trips, 4 which will occur during the morning peak hour and 159 of which will occur during the evening peak hour, as follows:

Time Period	Peak Hour				Daily
	Employees		Trucks		
	Inbound	Outbound	Inbound	Outbound	
6:00 AM – 7:00 AM	159	0	0	0	159
7:00 AM – 8:00 AM	0	0	2	0	2
8:00 AM – 9:00 AM	0	0	2	2	4
9:00 AM – 10:00 AM	0	0	2	2	4
10:00 AM – 11:00 AM	0	0	2	2	4
11:00 AM – 12:00 NOON	0	0	2	2	4
12:00 NOON – 1:00 PM	0	0	0	2	2
1:00 PM – 2:00 PM	0	0	2	0	2
2:00 PM – 3:00 PM	0	0	2	2	4
3:00 PM – 4:00 PM	0	0	0	2	2
4:00 PM – 5:00 PM	0	159	0	0	159
<b>Total</b>	<b>159</b>	<b>159</b>	<b>14</b>	<b>14</b>	<b>346</b>

In terms of construction-related traffic impacts during the critical 7:00 AM – 9:00 AM and 4:00 PM – 6:00 PM peak periods, the preceding table indicates that the 4:00 PM – 5:00 PM peak hour could be significantly impacted by the 180 workers exiting the area (resulting in approximately 159 outbound vehicles). Based upon the assumption that 55 percent of the workers would exit Revere Avenue onto westbound Los Feliz Boulevard and 45 percent of the workers would exit Revere Avenue onto eastbound Los Feliz Boulevard, these 159 vehicle trips were assigned to the study intersections. The Level of Service analyses were then conducted for the scenario of Existing Plus Project Construction traffic conditions. Only the intersections listed below are required for analysis because less than 50 peak hour trips were forecasted at the other study area intersections.

Intersection	Peak Hour Level of Service	
	Morning	Evening
I-5 Freeway NB Off-Ramp (NS) at: Los Feliz Boulevard (EW)	N/A ¹	0.610-B
Glenfeliz Boulevard (NS) at: Los Feliz Boulevard (EW)	N/A	0.757-C
Brunswick Avenue (NS) at: Los Feliz Boulevard (EW)	N/A	0.760-C
Revere Avenue (NS) at: Los Feliz Boulevard (EW)	N/A	0.893-D
Gardena Avenue (NS) at: Los Feliz Road (EW)	N/A	0.744-C
San Fernando Road (NS) at: Los Feliz Road (EW)	N/A	0.936-E

Therefore, the traffic impacts associated with construction activities are determined to be less than significant.

The City of Glendale should approve a truck haul route program for the construction of the project to minimize the impact caused by the construction of the project. The implementation of the following features should be considered by the City of Glendale:

1. Limit any potential lane closures to off-peak travel periods.
2. Schedule receipt of construction materials during non-peak travel periods, to the extent possible.
3. Maintain existing accesses for land uses in proximity of the project site.
4. Require the construction workers to park on the predetermined off-street parking lot specified by the applicant.

---

¹ Less than 50 peak hour trips during the morning peak hour.

5. Coordinate deliveries to minimize loading and unloading time.

## X. Elimination of On-Street and Off-Street Parking Analysis

---

As tabulated below, the project site is currently leased to certain nearby businesses for off-street parking. Parking occupancy surveys indicate approximately 45 vehicles are parked on-site during peak periods. These parking spaces will be eliminated to accommodate the project. In addition, approximately 29 on-street parking spaces will be eliminated as part of the project's traffic mitigation measures.

Location	Approximate Number of Parked Vehicles
On-Site ¹	45
South side of Fernando Court, west of Gardena Avenue	7
West side of Gardena Avenue, north of Los Feliz Road	9
East side of Gardena Avenue, south of Los Feliz Road	4
San Fernando Road at Fernando Court	2
South side of Fernando Court, east of Gardena Avenue	2
Total	69

Unless replaced, the elimination of the 69 parking spaces would constitute a significant and adverse impact.

---

¹ The on-site parking is leased by TransAid Ambulance and Gateway Animal Hospital (see Appendix D).

## **XI. Recommendations**

---

---

### **A. Site Access**

The project site will have driveway access via Fernando Court.

### **B. Roadway Improvements**

Site-specific circulation and access requirements of the City of Glendale Traffic & Transportation Division depicted on Figure 22.

Eastbound left-turn storage modification and protected left turn arrow at the intersection of Gardena Avenue and Los Feliz Road specified by the City of Glendale Traffic & Transportation Division.

A two (2) foot widening, restriping and an associated dedication of right-of-way adjacent to the site's entire frontage on Gardena Avenue. (It should be noted that approximately 9 parking spaces will be lost as a result of the street widening.)

A five (5) foot widening, restriping and an associated dedication of right-of-way along the site's entire frontage on Fernando Court. (It should be noted that approximately 7 parking spaces will be lost because of the street widening.)

A two (2) foot widening and restriping along the south side of Fernando Court between Gardena Avenue and San Fernando Road.

Sufficient on-site parking shall be provided to meet the project's peak parking demand.

Sight distance at the project accesses should be reviewed with respect to California Department of Transportation/City of Glendale standards in conjunction with the preparation of final grading, landscaping, and street improvement plans.

On-site traffic signing and striping should be implemented in conjunction with detailed construction plans for the project.

As is the case for any roadway design, the City of Glendale should periodically review traffic operations in the vicinity of the project once the project is constructed to assure that the traffic operations are satisfactory

Figure 22  
Circulation Recommendations

A five (5) foot widening, restriping and an associated dedication of right-of-way along the site's entire frontage on Fernando Court. (It should be noted that approximately 7 parking spaces will be lost because of the street widening.)

A two (2) foot widening and restriping along the south side of Fernando Court between Gardena Avenue and San Fernando Road.

A two (2) foot widening, restriping and an associated dedication of right-of-way adjacent to the site's entire frontage on Gardena Avenue. (It should be noted that approximately 9 parking spaces will be lost as a result of the street widening.)



Eastbound left-turn storage modification and protected left turn arrow at the intersection of Gardena Avenue and Los Feliz Road specified by the City of Glendale Traffic & Transportation Division.

Sufficient on-site parking shall be provided to meet the project's peak parking demand.

Sight distance at the project accesses should be reviewed with respect to California Department of Transportation/City of Glendale standards in conjunction with the preparation of final grading, landscaping, and street improvement plans.

On-site traffic signing and striping should be implemented in conjunction with detailed construction plans for the project.

As is the case for any roadway design, the City of Glendale should periodically review traffic operations in the vicinity of the project once the project is constructed to assure that the traffic operations are satisfactory.

**Legend**

- = Traffic Signal
- = Stop Sign
- = Full Access Driveway



## **Appendices**

---

**Appendix A – Glossary of Transportation Terms**

**Appendix B – Traffic Count Worksheets**

**Appendix C – Explanation and Calculation of Level of Service**

**Appendix D – On-Site Parking Leases**



**APPENDIX A**

**Glossary of Transportation Terms**

## GLOSSARY OF TRANSPORTATION TERMS

### COMMON ABBREVIATIONS

AC:	Acres
ADT:	Average Daily Traffic
Caltrans:	California Department of Transportation
DU:	Dwelling Unit
ICU:	Intersection Capacity Utilization
LOS:	Level of Service
TSF:	Thousand Square Feet
V/C:	Volume/Capacity
VMT:	Vehicle Miles Traveled

### TERMS

**AVERAGE DAILY TRAFFIC:** The total volume during a year divided by the number of days in a year. Usually only weekdays are included.

**BANDWIDTH:** The number of seconds of green time available for through traffic in a signal progression.

**BOTTLENECK:** A constriction along a travelway that limits the amount of traffic that can proceed downstream from its location.

**CAPACITY:** The maximum number of vehicles that can be reasonably expected to pass over a given section of a lane or a roadway in a given time period.

**CHANNELIZATION:** The separation or regulation of conflicting traffic movements into definite paths of travel by the use of pavement markings, raised islands, or other suitable means to facilitate the safe and orderly movements of both vehicles and pedestrians.

**CLEARANCE INTERVAL:** Nearly same as yellow time. If there is an all red interval after the end of a yellow, then that is also added into the clearance interval.

**CORDON:** An imaginary line around an area across which vehicles, persons, or other items are counted (in and out).

**CYCLE LENGTH:** The time period in seconds required for one complete signal cycle.

**CUL-DE-SAC STREET:** A local street open at one end only, and with special provisions for turning around.

**DAILY CAPACITY:** The daily volume of traffic that will result in a volume during the peak hour equal to the capacity of the roadway.

**DELAY:** The time consumed while traffic is impeded in its movement by some element over which it has no control, usually expressed in seconds per vehicle.

**DEMAND RESPONSIVE SIGNAL:** Same as traffic-actuated signal.

**DENSITY:** The number of vehicles occupying in a unit length of the through traffic lanes of a roadway at any given instant. Usually expressed in vehicles per mile.

**DETECTOR:** A device that responds to a physical stimulus and transmits a resulting impulse to the signal controller.

**DESIGN SPEED:** A speed selected for purposes of design. Features of a highway, such as curvature, superelevation, and sight distance (upon which the safe operation of vehicles is dependent) are correlated to design speed.

**DIRECTIONAL SPLIT:** The percent of traffic in the peak direction at any point in time.

**DIVERSION:** The rerouting of peak hour traffic to avoid congestion.

**FORCED FLOW:** Opposite of free flow.

**FREE FLOW:** Volumes are well below capacity. Vehicles can maneuver freely and travel is unimpeded by other traffic.

**GAP:** Time or distance between successive vehicles in a traffic stream, rear bumper to front bumper.

**HEADWAY:** Time or distance spacing between successive vehicles in a traffic stream, front bumper to front bumper.

**INTERCONNECTED SIGNAL SYSTEM:** A number of intersections that are connected to achieve signal progression.

**LEVEL OF SERVICE:** A qualitative measure of a number of factors, which include speed and travel time, traffic interruptions, freedom to maneuver, safety, driving comfort and convenience, and operating costs.

**LOOP DETECTOR:** A vehicle detector consisting of a loop of wire embedded in the roadway, energized by alternating current and producing an output circuit closure when passed over by a vehicle.

**MINIMUM ACCEPTABLE GAP:** Smallest time headway between successive vehicles in a traffic stream into which another vehicle is willing and able to cross or merge.

**MULTI-MODAL:** More than one mode; such as automobile, bus transit, rail rapid transit, and bicycle transportation modes.

**OFFSET:** The time interval in seconds between the beginning of green at one intersection and the beginning of green at an adjacent intersection.

**PLATOON:** A closely grouped component of traffic that is composed of several vehicles moving, or standing ready to move, with clear spaces ahead and behind.

**ORIGIN-DESTINATION SURVEY:** A survey to determine the point of origin and the point of destination for a given vehicle trip.

**PASSENGER CAR EQUIVALENTS (PCE):** One car is one Passenger Car Equivalent. A truck is equal to 2 or 3 Passenger Car Equivalents in that a truck requires longer to start, goes slower, and accelerates slower. Loaded trucks have a higher Passenger Car Equivalent than empty trucks.

**PEAK HOUR:** The 60 consecutive minutes with the highest number of vehicles.

**PRETIMED SIGNAL:** A type of traffic signal that directs traffic to stop and go on a predetermined time schedule without regard to traffic conditions. Also, fixed time signal.

**PROGRESSION:** A term used to describe the progressive movement of traffic through several signalized intersections.

**SCREEN-LINE:** An imaginary line or physical feature across which all trips are counted, normally to verify the validity of mathematical traffic models.

**SIGNAL CYCLE:** The time period in seconds required for one complete sequence of signal indications.

**SIGNAL PHASE:** The part of the signal cycle allocated to one or more traffic movements.

**STARTING DELAY:** The delay experienced in initiating the movement of queued traffic from a stop to an average running speed through a signalized intersection.

**TRAFFIC-ACTUATED SIGNAL:** A type of traffic signal that directs traffic to stop and go in accordance with the demands of traffic, as registered by the actuation of detectors.

**TRIP:** The movement of a person or vehicle from one location (origin) to another (destination). For example, from home to store to home is two trips, not one.

**TRIP-END:** One end of a trip at either the origin or destination; i.e. each trip has two trip-ends. A trip-end occurs when a person, object, or message is transferred to or from a vehicle.

**TRIP GENERATION RATE:** The quality of trips produced and/or attracted by a specific land use stated in terms of units such as per dwelling, per acre, and per 1,000 square feet of floor space.

**TRUCK:** A vehicle having dual tires on one or more axles, or having more than two axles.

**UNBALANCED FLOW:** Heavier traffic flow in one direction than the other. On a daily basis, most facilities have balanced flow. During the peak hours, flow is seldom balanced in an urban area.

**VEHICLE MILES OF TRAVEL:** A measure of the amount of usage of a section of highway, obtained by multiplying the average daily traffic by length of facility in miles.

**APPENDIX B**

**Traffic Count Worksheets**

# Intersection Turning Movement

Prepared by:

**National Data & Surveying Services**

N-S STREET: Gardena Ave

DATE: 10/14/2008

LOCATION: City of Glendale

E-W STREET: Los Feliz Rd

DAY: TUESDAY

PROJECT# 08-5069-002

LANES:	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			TOTAL
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
	0	1	0	0	1	0	0	2	0	1	2	0	
6:00 AM													
6:15 AM													
6:30 AM													
6:45 AM													
7:00 AM	7	1	3	0	0	7	0	113	17	0	240	2	390
7:15 AM	11	1	1	1	0	9	2	114	29	0	241	1	410
7:30 AM	16	1	4	0	2	7	1	152	18	4	274	2	481
7:45 AM	15	0	4	2	3	12	1	211	23	3	254	2	530
8:00 AM	13	4	5	1	0	18	2	181	26	1	264	4	519
8:15 AM	13	2	1	5	2	19	1	195	26	2	272	6	544
8:30 AM	15	5	5	4	2	16	1	181	35	4	250	6	524
8:45 AM	17	5	4	0	1	19	0	201	28	3	244	2	524
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													
TOTAL VOLUMES =	107	19	27	13	10	107	8	1348	202	17	2039	25	3922

AM Peak Hr Begins at: 745 AM

PEAK VOLUMES =	56	11	15	12	7	65	5	768	110	10	1040	18	2117
PEAK HR. FACTOR:		0.820			0.808			0.939			0.954		0.973

CONTROL: Signalized

# Intersection Turning Movement

Prepared by:

**National Data & Surveying Services**

N-S STREET: Gardena Ave

DATE: 10/14/2008

LOCATION: City of Glendale

E-W STREET: Los Feliz Rd

DAY: TUESDAY

PROJECT# 08-5069-002

LANES:	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			TOTAL
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
	0	1	0	0	1	0	0	2	0	1	2	0	
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM	20	5	4	3	3	24	3	303	32	4	250	5	656
4:15 PM	40	8	5	0	4	14	0	323	31	6	284	4	719
4:30 PM	32	4	3	0	4	21	0	295	35	5	266	4	669
4:45 PM	29	2	4	4	4	27	1	301	31	8	300	8	719
5:00 PM	34	0	5	5	1	25	0	288	26	3	333	2	722
5:15 PM	36	3	8	3	7	22	1	282	36	7	281	0	686
5:30 PM	41	2	9	2	1	20	3	333	45	5	309	2	772
5:45 PM	29	2	7	2	1	16	2	334	23	5	275	3	699
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													

TOTAL VOLUMES =	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	261	26	45	19	25	169	10	2459	259	43	2298	28	5642

PM Peak Hr Begins at: 445 PM

PEAK VOLUMES =	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	140	7	26	14	13	94	5	1204	138	23	1223	12	2899
PEAK HR. FACTOR:		0.832			0.864			0.884			0.930		0.939

CONTROL: Signalized



City Traffic Counters  
626.256.4171

File Name : SanfLosF  
Site Code : 00000000  
Start Date : 11/29/2007  
Page No : 1

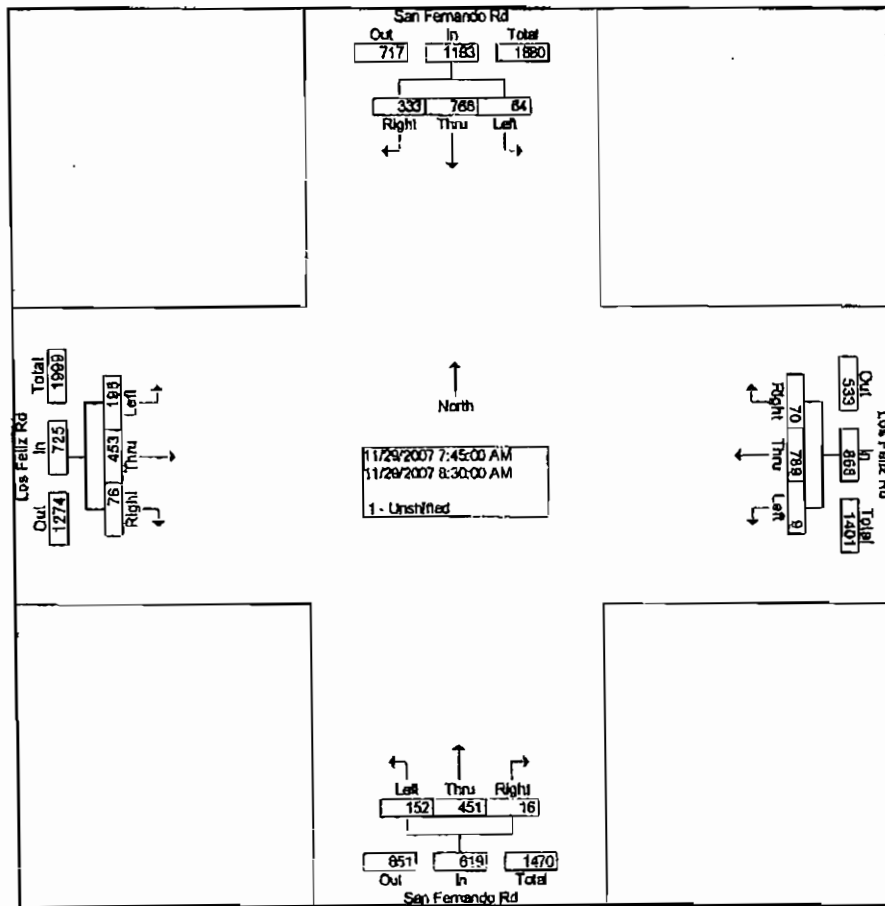
Groups Printed- 1 - Unshifted

Start Time	San Fernando Rd Southbound			Los Feliz Rd Westbound			San Fernando Rd Northbound			Los Feliz Rd Eastbound			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	10	154	89	2	192	8	19	81	2	26	67	12	662
07:15 AM	15	201	81	1	179	11	34	109	2	38	60	12	743
07:30 AM	14	200	89	0	180	6	30	103	5	45	112	17	801
07:45 AM	8	203	72	3	197	8	37	126	2	52	116	24	848
Total	47	758	331	6	748	33	120	419	11	161	355	65	3054
08:00 AM	14	169	84	2	199	11	32	114	5	58	110	18	816
08:15 AM	18	192	88	1	197	38	41	104	5	41	98	15	838
08:30 AM	24	202	89	3	196	13	42	107	4	45	129	19	873
08:45 AM	26	167	78	5	171	11	45	109	2	41	114	19	788
Total	82	730	339	11	763	73	160	434	16	185	451	71	3315
04:00 PM	20	126	55	7	169	18	40	120	5	65	162	40	827
04:15 PM	17	124	57	3	191	12	41	136	9	61	195	34	880
04:30 PM	18	132	69	6	188	14	33	137	4	72	213	29	915
04:45 PM	19	126	60	7	163	14	42	134	16	78	203	23	885
Total	74	508	241	23	711	58	156	527	34	276	773	126	3507
05:00 PM	10	151	73	7	152	14	36	149	7	64	205	37	905
05:15 PM	13	151	68	13	193	20	49	161	7	67	201	39	982
05:30 PM	18	149	76	1	176	12	36	170	7	65	183	29	922
05:45 PM	8	139	82	9	175	15	28	138	5	82	224	29	934
Total	49	590	299	30	696	61	149	618	26	278	813	134	3743
Grand Total	252	2586	1210	70	2918	225	585	1998	87	900	2392	396	13619
Apprch %	6.2	63.9	29.9	2.2	90.8	7.0	21.9	74.8	3.3	24.4	64.9	10.7	
Total %	1.9	19.0	8.9	0.5	21.4	1.7	4.3	14.7	0.6	6.6	17.6	2.9	

City Traffic Counters  
626.256.4171

File Name : SanfLosF  
Site Code : 00000000  
Start Date : 11/29/2007  
Page No : 2

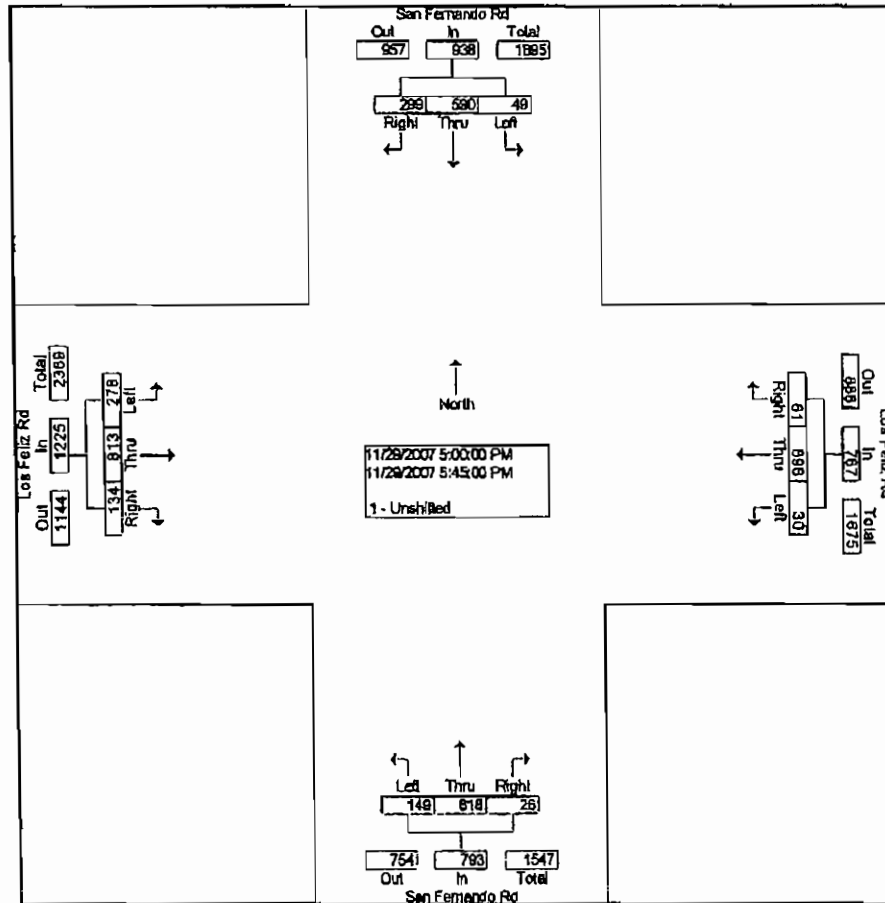
Start Time	San Fernando Rd Southbound				Los Feliz Rd Westbound				San Fernando Rd Northbound				Los Feliz Rd Eastbound				Int. Total	
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total		
Peak Hour From 07:00 AM to 11:45 AM - Peak 1 of 1																		
Intersection	07:45 AM																	
Volume	64	766	333	1163	9	789	70	868	152	451	16	619	196	453	76	725	3375	
Percent	5.5	65.9	28.6		1.0	90.9	8.1		24.6	72.9	2.6		27.0	62.5	10.5			
08:30 Volume	24	202	89	315	3	196	13	212	42	107	4	153	45	129	19	193	873	
Peak Factor	0.966																	
High Int.	08:30 AM																	
Volume	24	202	89	315	08:15 AM	1	197	38	236	07:45 AM	37	126	2	165	08:30 AM	45	129	193
Peak Factor	0.923				0.919				0.938				0.939					



**City Traffic Counters**  
626.256.4171

File Name : SanfLosF  
Site Code : 00000000  
Start Date : 11/29/2007  
Page No : 3

Start Time	San Fernando Rd Southbound				Los Feliz Rd Westbound				San Fernando Rd Northbound				Los Feliz Rd Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour From 12:00 PM to 05:45 PM - Peak 1 of 1																	
Intersection	05:00 PM																
Volume	49	590	299	938	30	696	61	787	149	618	26	793	278	813	134	1225	3743
Percent	5.2	62.9	31.9		3.8	88.4	7.8		18.8	77.9	3.3		22.7	66.4	10.9		
05:15 Volume	13	151	68	232	13	193	20	226	49	161	7	217	67	201	39	307	982
Peak Factor	0.953																
High Int. Volume	05:30 PM				05:15 PM				05:15 PM				05:45 PM				
Peak Factor	18	149	76	243	13	193	20	226	49	161	7	217	82	224	29	335	0.914
	0.965				0.871				0.914								



**APPENDIX C**

**Explanation and Calculation of  
Levels of Service**

## EXPLANATION AND CALCULATION OF INTERSECTION CAPACITY UTILIZATION

### Overview

The ability of a roadway to carry traffic is referred to as capacity. The capacity is usually greater between intersections and less at intersections because traffic flows continuously between them and only during the green phase at them. Capacity at intersections is best defined in terms of vehicles per lane per hour of green. If capacity is 1600 vehicles per lane per hour of green, and if the green phase is 50 percent of the cycle and there are three lanes, then the capacity is 1600 times 50 percent times 3 lanes, or 2400 vehicles per hour for that approach.

The technique used to compare the volume and capacity at an intersection is known as Intersection Capacity Utilization. Intersection Capacity Utilization, usually expressed as a percent, is the proportion of an hour required to provide sufficient capacity to accommodate all intersection traffic if all approaches operate at capacity. If an intersection is operating at 80 percent of capacity (i.e., an Intersection Capacity Utilization of 80 percent), then 20 percent of the signal cycle is not used. The signal could show red on all indications 20 percent of the time and the signal would just accommodate approaching traffic.

Intersection Capacity Utilization analysis consists of (a) determining the proportion of signal time needed to serve each conflicting movement of traffic, (b) summing the times for the movements, and (c) comparing the total time required to the total time available. For example, if for north-south traffic the northbound traffic is 1600 vehicles per hour, the southbound traffic is 1200 vehicles per hour, and the capacity of either direction is 3200 vehicles per hour, then the northbound traffic is critical and requires  $1600/3200$  or 50 percent of the signal time. If for east-west traffic, 30 percent of the signal time is required, then it can be seen that the Intersection Capacity Utilization is 50 plus 30, or 80 percent. When left turn arrows (left turn phasing) exist, they are incorporated into the analysis. The critical movements are usually the heavy left turn movements and the opposing through movements.

The Intersection Capacity Utilization technique is an ideal tool to quantify existing as well as future intersection operation. The impact of adding a lane can be quickly determined by examining the effect the lane has on the Intersection Capacity Utilization.

### **Intersection Capacity Utilization Worksheets That Follow This Discussion**

The Intersection Capacity Utilization worksheet table contains the following information:

1. Peak hour turning movement volumes.
2. Number of lanes that serve each movement.
3. For right turn lanes, whether the lane is a free right turn lane, whether it has a right turn arrow, and the percent of right turns on red that are assumed.
4. Capacity assumed per lane.
5. Capacity available to serve each movement (number of lanes times capacity per lane).
6. Volume to capacity ratio for each movement.
7. Whether the movement's volume to capacity ratio is critical and adds to the Intersection Capacity Utilization value.
8. The yellow time or clearance interval assumed.
9. Adjustments for right turn movements.
10. The Intersection Capacity Utilization and Level of Service.

The Intersection Capacity Utilization Worksheet also has two graphics on the same page. These two graphics show the following:

1. Peak hour turning movement volumes.
2. Number of lanes that serve each movement.
3. The approach and exit leg volumes.
4. The two-way leg volumes.
5. An estimate of daily traffic volumes that is fairly close to actual counts and is based strictly on the peak hour leg volumes multiplied by a factor.

6. Percent of daily traffic in peak hours.
7. Percent of peak hour leg volume that is inbound versus outbound.

A more detailed discussion of Intersection Capacity Utilization and Level of Service follows.

### **Level of Service**

Level of Service is used to describe the quality of traffic flow. Levels of Service A to C operate quite well. Level of Service C is typically the standard to which rural roadways are designed.

Level of Service D is characterized by fairly restricted traffic flow. Level of Service D is the standard to which urban roadways are typically designed. Level of Service E is the maximum volume a facility can accommodate and will result in possible stoppages of momentary duration. Level of Service F occurs when a facility is overloaded and is characterized by stop-and-go traffic with stoppages of long duration.

A description of the various Levels of Service appears at the end of the ICU description, along with the relationship between Intersection Capacity Utilization and Level of Service.

### **Signalized and Unsignalized Intersections**

Although calculating an Intersection Capacity Utilization value for an unsignalized intersection is invalid, the presumption is that a signal can be installed and the calculation shows whether the geometrics are capable of accommodating the expected volumes with a signal. A traffic signal becomes warranted before Level of Service D is reached for a signalized intersection.

### **Signal Timing**

The Intersection Capacity Utilization calculation assumes that a signal is properly timed. It is possible to have an Intersection Capacity Utilization well below 100 percent, yet have severe traffic congestion. This would occur if one or more movements is not getting sufficient green time to satisfy its demand, and excess green time exists on other movements. This is an operational problem that should be remedied.

### **Lane Capacity**

Capacity is often defined in terms of roadway width; however, standard lanes have approximately the same capacity whether they are 11 or 14 feet wide. Our data indicates a typical lane, whether a through lane or a left turn lane, has a capacity of approximately 1750 vehicles per hour of green time, with nearly all locations showing a capacity greater than 1600 vehicles per hour of green per lane. Right turn lanes have a slightly lower capacity; however 1600 vehicles per hour is a valid capacity assumption for right turn lanes.

This finding is published in the August, 1978 issue of Institute of Transportation Engineers Journal in the article entitled, "Another Look at Signalized Intersection Capacity" by William Kunzman, P.E. A capacity of 1600 vehicles per hour per lane with no yellow time penalty, or 1700 vehicles per hour with a 3 or 5 percent yellow time penalty is reasonable.

### **Yellow Time**

The yellow time can either be assumed to be completely used and no penalty applied, or it can be assumed to be only partially usable. Total yellow time accounts for approximately 10 percent of a signal cycle, and a penalty of 3 to 5 percent is reasonable.

During peak hour traffic operation the yellow times are nearly completely used. If there is no left turn phasing, the left turn vehicles completely use the yellow time. Even if there is left turn phasing, the through traffic continues to enter the intersection on the yellow until just a split second before the red.

### **Shared Lanes**

Shared lanes occur in many locations. A shared lane is often found at the end of an off ramp where the ramp forms an intersection with the cross street. Often at a diamond interchange off ramp, there are three lanes. In the case of a diamond interchange, the middle lane is sometimes shared, and the driver can turn left, go through, or turn right from that lane.

If one assumes a three lane off ramp as described above, and if one assumes that each lane has 1600 capacity, and if one assumes that there are 1000 left turns per hour, 500 right turns per hour, and 100 through vehicles per hour, then how should one assume that the three lanes operate. There are three ways that it is done.



One way is to just assume that all 1600 vehicles (1000 plus 500 plus 100) are served simultaneously by three lanes. When this is done, the capacity is 3 times 1600 or 4800, and the amount of green time needed to serve the ramp is 1600 vehicles divided by 4800 capacity or 33.3 percent. This assumption effectively assumes perfect lane distribution between the three lanes that is not realistic. It also means a left turn can be made from the right lane.

Another way is to equally split the capacity of a shared lane and in this case to assume there are 1.33 left turn lanes, 1.33 right turn lanes, and 0.33 through lanes. With this assumption, the critical movement is the left turns and the 1000 left turns are served by a capacity of 1.33 times 1600, or 2133. The volume to capacity ratio of the critical move is 1000 divided by 2133 or 46.9 percent.

The first method results in a critical move of 33.3 percent and the second method results in a critical move of 46.9 percent. Neither is very accurate, and the difference in the calculated Level of Service will be approximately 1.5 Levels of Service (one Level of Service is 10 percent).

The way Kunzman Associates, Inc. does it is to assign fractional lanes in a reasonable way. In this example, it would be assumed that there is 1.1 right turn lanes, 0.2 through lanes, and 1.7 left turn lanes. The volume to capacity ratios for each movement would be 31.3 percent for the through traffic, 28.4 percent for the right turn movement, and 36.8 percent for the left turn movement. The critical movement would be the 36.8 percent for the left turns.

### **Right Turn on Red**

Kunzman Associates, Inc. software treats right turn lanes in one of five different ways. Each right turn lane is classified into one of five cases. The five cases are (1) free right turn lane, (2) right turn lane with separate right turn arrow, (3) standard right turn lane with no right turns on red allowed, (4) standard right turn lane with a certain percentage of right turns on red allowed, and (5) separate right turn arrow and a certain percentage of right turns on red allowed.

### **Free Right Turn Lane**

If it is a free right turn lane, then it is given a capacity of one full lane with continuous or 100 percent green time. A Free right turn lane occurs when there is a separate approach lane for right turning vehicles, there is a separate departure lane for the right turning vehicles after they turn and are exiting the intersection, and the through cross street traffic does not interfere with the vehicles after they turn right.

### **Separate Right Turn Arrow**

If there is a separate right turn arrow, then it is assumed that vehicles are given a green indication and can proceed on what is known as the left turn overlap.

The left turn overlap for a northbound right turn is the westbound left turn. When the left turn overlap has a green indication, the right turn lane is also given a green arrow indication. Thus, if there is a northbound right turn arrow, then it can be turned green for the period of time that the westbound left turns are proceeding.

If there are more right turns than can be accommodated during the northbound through green and the time that the northbound right turn arrow is on, then an adjustment is made to the Intersection Capacity Utilization to account for the green time that needs to be added to the northbound through green to accommodate the northbound right turns.

### **Standard Right Turn Lane, No Right Turns on Red**

A standard right turn lane, with no right turn on red assumed, proceeds only when there is a green indication displayed for the adjacent through movement. If additional green time is needed above that amount of time, then in the Intersection Capacity Utilization calculation a right turn adjustment green time is added above the green time that is needed to serve the adjacent through movement.

### **Standard Right Turn Lane, With Right Turns on Red**

A standard right turn lane with say 20 percent of the right turns allowed to turn right on a red indication is calculated the same as the standard right turn case where there is no right turn on red allowed, except that the right turn adjustment is reduced to account for the 20 percent of the right turning vehicles that can logically turn right on a red light. The right turns on red are never allowed to exceed the time the overlap left turns take plus the unused part of the green cycle that the cross street traffic moving from left to right has.

As an example of how 20 percent of the cars are allowed to turn right on a red indication, assume that the northbound right turn volume needs 40 percent of the signal cycle to be satisfied. To allow 20 percent of the northbound right turns to turn right on red, then during 8 percent of the signal cycle (40 percent of signal cycle times 20 percent that can turn right on red) right turns on red will be allowed if it is feasible.

For this example, assume that 15 percent of the signal cycle is green for the northbound through traffic, and that means that 15 percent of the signal cycle is

available to satisfy northbound right turns. After the northbound through traffic has received its green, 25 percent of the signal cycle is still needed to satisfy the northbound right turns (40 percent of the signal cycle minus the 15 percent of the signal cycle that the northbound through used).

Assume that the westbound left turns require a green time of 6 percent of the signal cycle. This 6 percent of the signal cycle is used by northbound right turns on red. After accounting for the northbound right turns that occur on the westbound overlap left turn, 19 percent of the signal cycle is still needed for the northbound right turns (25 percent of the cycle was needed after the northbound through green time was accounted for [see above paragraph], and 6 percent was served during the westbound left turn overlap). Also, at this point 6 percent of the signal cycle has been used for northbound right turns on red, and still 2 percent more of the right turns will be allowed to occur on the red if there is unused eastbound through green time.

For purpose of this example, assume that the westbound through green is critical, and that 15 percent of the signal cycle is unused by eastbound through traffic. Thus, 2 percent more of the signal cycle can be used by the northbound right turns on red since there is 15 seconds of unused green time being given to the eastbound through traffic.

At this point, 8 percent of the signal cycle was available to serve northbound right turning vehicles on red, and 15 percent of the signal cycle was available to serve right turning vehicles on the northbound through green. So 23 percent of the signal cycle has been available for northbound right turns.

Because 40 percent of the signal cycle is needed to serve northbound right turns, there is still a need for 17 percent more of the signal cycle to be available for northbound right turns. What this means is the northbound through traffic green time is increased by 17 percent of the cycle length to serve the unserved right turn volume, and a 17 percent adjustment is added to the Intersection Capacity Utilization to account for the northbound right turns that were not served on the northbound through green time or when right turns on red were assumed.

### **Separate Right Turn Arrow, With Right Turns on Red**

A right turn lane with a separate right turn arrow, plus a certain percentage of right turns allowed on red is calculated the same way as a standard right turn lane with a certain percentage of right turns allowed on red, except the turns which occur on the right turn arrow are not counted as part of the percentage of right turns that occur on red.

### **Critical Lane Method**

Intersection Capacity Utilization parallels another calculation procedure known as the Critical Lane Method with one exception. Critical Lane Method dimensions capacity in terms of standardized vehicles per hour per lane. A Critical Lane Method result of 800 vehicles per hour means that the intersection operates as though 800 vehicles were using a single lane continuously. If one assumes a lane capacity of 1600 vehicles per hour, then a Critical Lane Method calculation resulting in 800 vehicles per hour is the same as an Intersection Capacity Utilization calculation of 50 percent since  $800/1600$  is 50 percent. It is our opinion that the Critical Lane Method is inferior to the Intersection Capacity Utilization method simply because a statement such as "The Critical Lane Method value is 800 vehicles per hour" means little to most persons, whereas a statement such as "The Intersection Capacity Utilization is 50 percent" communicates clearly. Critical Lane Method results directly correspond to Intersection Capacity Utilization results. The correspondence is as follows, assuming a lane capacity of 1600 vehicles per hour and no clearance interval.

<b><u>Critical Lane Method Result</u></b>	<b><u>Intersection Capacity Utilization Result</u></b>
800 vehicles per hour	50 percent
960 vehicles per hour	60 percent
1120 vehicles per hour	70 percent
1280 vehicles per hour	80 percent
1440 vehicles per hour	90 percent
1600 vehicles per hour	100 percent
1760 vehicles per hour	110 percent

**INTERSECTION CAPACITY UTILIZATION  
LEVEL OF SERVICE DESCRIPTION¹**

Level of Service	Description	Volume to Capacity Ratio
A	Level of Service A occurs when progression is extremely favorable and vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.	0.600 and below
B	Level of Service B generally occurs with good progression and/or short cycle lengths. More vehicles stop than for Level of Service A, causing higher levels of average delay.	0.601 to 0.700
C	Level of Service C generally results when there is fair progression and/or longer cycle lengths. Individual cycle failures may begin to appear in this level. The number of vehicles stopping is significant at this level, although many still pass through the intersection without stopping.	0.701 to 0.800
D	Level of Service D generally results in noticeable congestion. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high volume to capacity ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.	0.801 to 0.900
E	Level of Service E is considered to be the limit of acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high volume to capacity ratios. Individual cycle failures are frequent.	0.901 to 1.000
F	Level of Service F is considered to be unacceptable to most drivers. This condition often occurs when oversaturation, i.e., when arrival flow rates exceed the capacity of the intersection. It may also occur at high volume to capacity ratios below 1.00 with many individual cycle failures. Poor progression and long cycle lengths may also be major contributing causes to such delay levels.	1.001 and up

¹ Source: [Highway Capacity Manual](#) Special Report 209, Transportation Research Board, National Research Council Washington D.C., 2000.

## **EXPLANATION AND CALCULATION OF INTERSECTION LEVEL OF SERVICE USING DELAY METHODOLOGY**

The levels of service at the unsignalized intersections are calculated using the delay methodology in the 2000 Highway Capacity Manual. This methodology views an intersection as consisting of several lane groups. A lane group is a set of lanes serving a movement. If there are two northbound left turn lanes, then the lane group serving the northbound left turn movement has two lanes. Similarly, there may be three lanes in the lane group serving the northbound through movement, one lane in the lane group serving the northbound right turn movement, and so forth. It is also possible for one lane to serve two lane groups. A shared lane might result in there being 1.5 lanes in the northbound left turn lane group and 2.5 lanes in the northbound through lane group.

For each lane group, there is a capacity. That capacity is calculated by multiplying the number of lanes in the lane group times a theoretical maximum lane capacity per lane times 12 adjustment factors.

Each of the 12 adjustment factors has a value of approximately 1.00. A value less than 1.00 is generally assigned when a less than desirable condition occurs.

The 12 adjustment factors are as follows:

1. Peak hour factor (to account for peaking within the peak hour)
2. Lane utilization factor (to account for not all lanes loading equally)
3. Lane width
4. Percent of heavy trucks
5. Approach grade
6. Parking
7. Bus stops at intersections
8. Area type (CBD or other)
9. Right turns
10. Left turns

11. Pedestrian activity
12. Signal progression

The maximum theoretical lane capacity and the 12 adjustment factors for it are all unknowns for which approximate estimates have been recommended in the 2000 Highway Capacity Manual. For the most part, the recommended values are not based on statistical analysis but rather on educated estimates. However, it is possible to use the delay method and get reasonable results as will be discussed below.

Once the lane group volume is known and the lane group capacity is known, a volume to capacity ratio can be calculated for the lane group.

With a volume to capacity ratio calculated, average delay per vehicle in a lane group can be estimated. The average delay per vehicle in a lane group is calculated using a complex formula provided by the 2000 Highway Capacity Manual, which can be simplified and described as follows:

Delay per vehicle in a lane group is a function of the following:

1. Cycle length
2. Amount of red time faced by a lane group
3. Amount of yellow time for that lane group
4. The volume to capacity ratio of the lane group

The average delay per vehicle for each lane group is calculated, and eventually an overall average delay for all vehicles entering the intersection is calculated. This average delay per vehicle is then used to judge Level of Service. The Level of Services are defined in the table that follows this discussion.

Experience has shown that when a maximum lane capacity of 1,900 vehicles per hour is used (as recommended in the 2000 Highway Capacity Manual), little or no yellow time penalty is used, and none of the 12 penalty factors are applied, calculated delay is realistic. The delay calculation for instance assumes that yellow time is totally unused. Yet experience shows that most of the yellow time is used.

An idiosyncrasy of the delay methodology is that it is possible to add traffic to an intersection and reduce the average total delay per vehicle. If the average total delay is 30 seconds per vehicle for all vehicles traveling through an intersection, and traffic is

added to a movement that has an average total delay of 15 seconds per vehicle, then the overall average total delay is reduced.

The delay calculation for a lane group is based on a concept that the delay is a function of the amount of unused capacity available. As the volume approaches capacity and there is no more unused capacity available, then the delay rapidly increases. Delay is not proportional to volume, but rather increases rapidly as the unused capacity approaches zero.

Because delay is not linearly related to volumes, the delay does not reflect how close an intersection is to overloading. If an intersection is operating at Level of Service C and has an average total delay of 18 seconds per vehicle, you know very little as to what percent the traffic can increase before Level of Service E is reached.



## DELAY LEVEL OF SERVICE DESCRIPTION¹

Level of Service	Description	Average Total Delay Per Vehicle (Seconds)	
		Signalized	Unsignalized
A	Level of Service A occurs when progression is extremely favorable and most vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.	0 to 10.00	0 to 10.00
B	Level of Service B generally occurs with good progression and/or short cycle lengths. More vehicles stop than for Level of Service A, causing higher levels of average total delay.	10.01 to 20.00	10.01 to 15.00
C	Level of Service C generally results when there is fair progression and/or longer cycle lengths. Individual cycle failures may begin to appear in this level. The number of vehicles stopping is significant at this level, although many still pass through the intersection without stopping.	20.01 to 35.00	15.01 to 25.00
D	Level of Service D generally results in noticeable congestion. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high volume to capacity ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.	35.01 to 55.00	25.01 to 35.00
E	Level of Service E is considered to be the limit of acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high volume to capacity ratios. Individual cycle failures are frequent occurrences.	55.01 to 80.00	35.01 to 50.00
F	Level of Service F is considered to be unacceptable to most drivers. This condition often occurs with oversaturation, i.e., when arrival flow rates exceed the capacity of the intersection. It may also occur at high volume to capacity ratios below 1.00 with many individual cycle failures. Poor progression and long cycle lengths may also be major contributing causes to such delay levels.	80.01 and up	50.01 and up

¹ Source: [Highway Capacity Manual](#) Special Report 209, Transportation Research Board, National Research Council, Washington, D.C., 2000.

**Existing**

Glen Village Apartments
Existing
Morning Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

*****

Intersection #1 Gardena Avenue (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.538

Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 Level Of Service: A

*****

Table with 4 columns: North Bound, South Bound, East Bound, West Bound. Rows include Approach, Movement, Control, Rights, Min. Green, and Lanes.

Volume Module:

Table with 13 columns representing different traffic metrics. Rows include Base Vol, Growth Adj, Initial Bse, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLE Adj, and Final Volume.

Saturation Flow Module:

Table with 13 columns representing saturation flow metrics. Rows include Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with 13 columns representing capacity analysis metrics. Rows include Vol/Sat and Crit Moves.

*****

Glen Village Apartments
Existing
Evening Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

*****
Intersection #1 Gardena Avenue (NS) at Los Feliz Road (EW)
*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.721
Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 100 Level Of Service: C
*****

Table with 4 columns: North Bound, South Bound, East Bound, West Bound. Rows include Movement (L-T-R), Control, Rights, Min. Green, and Lanes.

Volume Module: Table with 13 columns representing different traffic components and 10 rows of data including Base Vol, Growth Adj, Initial Bse, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module: Table with 13 columns and 5 rows of data including Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module: Table with 13 columns and 3 rows of data including Vol/Sat, Crit Moves, and a row of asterisks.

Glen Village Apartments  
Existing  
Morning Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

*****

Intersection #2 San Fernando Road (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap. (X): 0.971  
 Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx  
 Optimal Cycle: 100 Level Of Service: E

*****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Prot+Permit			Prot+Permit			Prot+Permit			Prot+Permit		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1	0	1	1	0	1	1	0	2	1	0	1

Volume Module:

Base Vol:	152	451	16	64	766	333	196	453	76	9	789	70
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:	152	451	16	64	766	333	196	453	76	9	789	70
User Adj:	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
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:	160	474	17	67	804	350	206	476	80	9	828	74
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	160	474	17	67	804	350	206	476	80	9	828	74
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
Final Volume:	160	474	17	67	804	350	206	476	80	9	828	74

Saturation Flow Module:

Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
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	1.93	0.07	1.00	1.39	0.61	1.00	2.00	1.00	1.00	1.84	0.16
Final Sat.:	1600	3090	110	1600	2230	970	1600	3200	1600	1600	2939	261

Capacity Analysis Module:

Vol/Sat:	0.10	0.15	0.15	0.04	0.36	0.36	0.13	0.15	0.05	0.01	0.28	0.28
Crit Moves:	****			****			****			****		

*****

Glen Village Apartments
Existing
Evening Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

*****

Intersection #2 San Fernando Road (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.920

Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 Level Of Service: E

*****

Table with 4 columns: North Bound, South Bound, East Bound, West Bound. Rows include Movement, Control, Rights, Min. Green, and Lanes.

Volume Module:

Table with 12 columns representing different volume metrics and 12 rows of data including Base Vol, Growth Adj, Initial Bse, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module:

Table with 12 columns representing saturation flow metrics and 4 rows of data including Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with 12 columns representing capacity analysis metrics and 2 rows of data including Vol/Sat and Crit Moves.

*****

**Existing Plus Project**

Glen Village Apartments
Existing Plus Project
Morning Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #1 Gardena Avenue (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.573

Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 Level Of Service: A

*****

Table with 4 columns: North Bound, South Bound, East Bound, West Bound. Rows include Approach, Movement, Control, Rights, Min. Green, and Lanes.

Volume Module:

Table with 12 columns representing different volume metrics and 12 rows for various adjustment factors like Base Vol, Growth Adj, Initial Bse, etc.

Saturation Flow Module:

Table with 12 columns for saturation flow metrics and 4 rows for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with 12 columns for capacity analysis metrics and 3 rows for Vol/Sat, Crit Moves, and a summary row.

*****



Glen Village Apartments
Existing Plus Project
Evening Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #1 Gardena Avenue (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.742

Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 Level Of Service: C

*****

Table with 4 columns: Approach (North Bound, South Bound, East Bound, West Bound) and Movement (L, T, R). Rows include Control, Rights, Min. Green, and Lanes.

Volume Module:

Table with 12 columns representing different volume and adjustment factors. Rows include Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and FinalVolume.

Saturation Flow Module:

Table with 12 columns representing saturation flow and adjustment factors. Rows include Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with 12 columns representing capacity analysis factors. Rows include Vol/Sat and Crit Moves.

*****

Glen Village Apartments
Existing Plus Project - With Improvement
Morning Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #1 Gardena Avenue (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.540
Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 100 Level Of Service: A

*****

Table with 4 columns: North Bound, South Bound, East Bound, West Bound. Rows include Approach, Movement, Control, Rights, Min. Green, and Lanes.

Volume Module:

Table with 12 columns representing different traffic components and 12 rows of volume data including Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and FinalVolume.

Saturation Flow Module:

Table with 12 columns and 4 rows: Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with 12 columns and 2 rows: Vol/Sat, Crit Moves.

*****

Glen Village Apartments
Existing Plus Project - With Improvement
Evening Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #1 Gardena Avenue (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.714
Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 100 Level Of Service: C

*****

Table with 4 columns: North Bound, South Bound, East Bound, West Bound. Rows include Movement, Control, Rights, Min. Green, and Lanes.

Volume Module:

Table with 12 columns representing different volume and adjustment factors. Rows include Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MFL Adj, and Final Volume.

Saturation Flow Module:

Table with 12 columns representing saturation flow factors. Rows include Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with 12 columns representing capacity analysis factors. Rows include Vol/Sat and Crit Moves.

*****

Glen Village Apartments
Existing Plus Project
Morning Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #2 San Fernando Road (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.988

Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 Level Of Service: E

*****

Table with 4 columns: North Bound, South Bound, East Bound, West Bound. Rows include Approach, Movement, Control, Rights, Min. Green, and Lanes.

Volume Module:

Table with 13 columns representing different volume metrics and 13 rows for various adjustment factors like Base Vol, Growth Adj, Initial Bse, etc.

Saturation Flow Module:

Table with 13 columns for saturation flow metrics and 4 rows for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with 13 columns for capacity analysis metrics and 2 rows for Vol/Sat and Crit Moves.

*****

Glen Village Apartments
Existing Plus Project
Evening Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #2 San Fernando Road (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.944

Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 Level Of Service: E

*****

Table with 4 columns: North Bound, South Bound, East Bound, West Bound. Rows include Approach, Movement, Control, Rights, Min. Green, and Lanes.

Volume Module:

Table with 13 columns representing different volume metrics and 13 rows for various adjustment factors like Base Vol, Growth Adj, Initial Bse, etc.

Saturation Flow Module:

Table with 13 columns for saturation flow metrics and 4 rows for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with 13 columns for capacity analysis metrics and 2 rows for Vol/Sat and Crit Moves.

*****

**Year 2012 Without Project**

Glen Village Apartments  
 Year 2014 Without Project  
 Morning Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #1 Gardena Avenue (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.564

Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 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			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0	0	1! 0	0	0	1! 0	1	0	1 1	0	1	1 0

Volume Module:

Base Vol:	56	11	15	12	7	65	5	768	110	10	1040	18
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:	56	11	15	12	7	65	5	768	110	10	1040	18
Added Vol:	0	0	0	0	0	0	0	34	0	0	53	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	56	11	15	12	7	65	5	802	110	10	1093	18
User Adj:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
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:	59	12	16	13	7	69	5	850	117	11	1159	19
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	59	12	16	13	7	69	5	850	117	11	1159	19
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:	59	12	16	13	7	69	5	850	117	11	1159	19

Saturation Flow Module:

Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
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:	0.68	0.13	0.18	0.14	0.08	0.77	1.00	1.76	0.24	1.00	1.97	0.03
Final Sat.:	1093	215	293	229	133	1238	1600	2814	386	1600	3148	52

Capacity Analysis Module:

Vol/Sat:	0.04	0.05	0.05	0.01	0.06	0.06	0.00	0.30	0.30	0.01	0.37	0.37
Crit Moves:	****			****			****			****		

*****

Glen Village Apartments
Year 2014 Without Project
Evening Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #1 Gardena Avenue (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.755
Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 100 Level Of Service: C

*****

Table with 4 columns: North Bound, South Bound, East Bound, West Bound. Rows include Approach, Movement, Control, Rights, Min. Green, and Lanes.

Volume Module:

Table with 12 columns representing different traffic volumes and adjustment factors like Base Vol, Growth Adj, Initial Bse, etc.

Saturation Flow Module:

Table with 12 columns representing saturation flow values and adjustment factors like Sat/Lane, Adjustment, Lanes, Final Sat.

Capacity Analysis Module:

Table with 12 columns representing capacity analysis values like Vol/Sat, Crit Moves.

*****



Glen Village Apartments  
 Year 2014 Without Project  
 Morning Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #2 San Fernando Road (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 1.015

Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 Level Of Service: F

*****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Prot+Permit			Prot+Permit			Prot+Permit			Prot+Permit		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1	0	2	0	1	1	1	0	2	0	1	1

Volume Module:

Base Vol:	152	451	16	64	766	333	196	453	76	9	789	70
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:	152	451	16	64	766	333	196	453	76	9	789	70
Added Vol:	0	13	0	0	18	9	6	27	0	0	44	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	152	464	16	64	784	342	202	480	76	9	833	70
User Adj:	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
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:	163	496	17	68	839	366	216	514	81	10	891	75
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	163	496	17	68	839	366	216	514	81	10	891	75
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:	163	496	17	68	839	366	216	514	81	10	891	75

Saturation Flow Module:

Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
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	2.00	1.00	1.00	1.39	0.61	1.00	2.00	1.00	1.00	1.85	0.16
Final Sat.:	1600	3200	1600	1600	2228	972	1600	3200	1600	1600	2952	248

Capacity Analysis Module:

Vol/Sat:	0.10	0.16	0.01	0.04	0.38	0.38	0.14	0.16	0.05	0.01	0.30	0.30
Crit Moves:	****			****			****			****		

*****

Glen Village Apartments  
 Year 2014 Without Project  
 Evening Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #2 San Fernando Road (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.976

Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 Level Of Service: E

*****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Prot+Permit			Prot+Permit			Prot+Permit			Prot+Permit		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1	0	2	0	1	1	1	0	2	0	1	1

Volume Module:

Base Vol:	149	618	26	49	590	299	278	813	134	30	696	61
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:	149	618	26	49	590	299	278	813	134	30	696	61
Added Vol:	0	36	0	0	33	16	18	50	0	0	36	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	149	654	26	49	623	315	296	863	134	30	732	61
User Adj:	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
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:	159	700	28	52	667	337	317	923	143	32	783	65
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	159	700	28	52	667	337	317	923	143	32	783	65
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:	159	700	28	52	667	337	317	923	143	32	783	65

Saturation Flow Module:

Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
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	2.00	1.00	1.00	1.33	0.67	1.00	2.00	1.00	1.00	1.85	0.15
Final Sat.:	1600	3200	1600	1600	2125	1075	1600	3200	1600	1600	2954	246

Capacity Analysis Module:

Vol/Sat:	0.10	0.22	0.02	0.03	0.31	0.31	0.20	0.29	0.09	0.02	0.27	0.27
Crit Moves:	****			****			****			****		

*****

**Year 2012 With Project**

Glen Village Apartments
Year 2014 With Project
Morning Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #1 Gardena Avenue (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.600

Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 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 Permitted Permitted

Rights: Include Include Include Include

Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0

Lanes: 0 0 1! 0 0 0 0 1! 0 0 1 0 1 1 0

-----|-----|-----|-----|

Volume Module:

Base Vol: 56 11 15 12 7 65 5 768 110 10 1040 18

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: 56 11 15 12 7 65 5 768 110 10 1040 18

Added Vol: 0 1 0 39 2 4 2 34 0 0 53 13

PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0

Initial Fut: 56 12 15 51 9 69 7 802 110 10 1093 31

User Adj: 1.06 1.06 1.06 1.06 1.06 1.06 1.06 1.06 1.06 1.06 1.06 1.06

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: 59 13 16 54 10 73 7 850 117 11 1159 33

Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0

Reduced Vol: 59 13 16 54 10 73 7 850 117 11 1159 33

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: 59 13 16 54 10 73 7 850 117 11 1159 33

-----|-----|-----|-----|

Saturation Flow Module:

Sat/Lane: 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600

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: 0.67 0.14 0.18 0.40 0.07 0.53 1.00 1.76 0.24 1.00 1.94 0.06

Final Sat.: 1080 231 289 633 112 856 1600 2814 386 1600 3112 88

-----|-----|-----|-----|

Capacity Analysis Module:

Vol/Sat: 0.04 0.05 0.05 0.03 0.09 0.09 0.00 0.30 0.30 0.01 0.37 0.37

Crit Moves: **** **** **** ****

*****

Glen Village Apartments
Year 2014 With Project
Evening Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #1 Gardena Avenue (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.777

Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 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: Permitted Permitted Permitted Permitted
Rights: Include Include Include Include

Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0
Lanes: 0 0 1! 0 0 0 0 1! 0 0 1 0 1 1 0 0

Volume Module:

Base Vol: 140 7 26 14 13 94 5 1204 138 23 1223 12
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: 140 7 26 14 13 94 5 1204 138 23 1223 12
Added Vol: 0 2 0 29 1 3 4 68 0 0 53 34
PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0
Initial Fut: 140 9 26 43 14 97 9 1272 138 23 1276 46
User Adj: 1.06 1.06 1.06 1.06 1.06 1.06 1.06 1.06 1.06 1.06 1.06 1.06
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: 148 10 28 46 15 103 10 1348 146 24 1353 49
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0
Reduced Vol: 148 10 28 46 15 103 10 1348 146 24 1353 49
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: 148 10 28 46 15 103 10 1348 146 24 1353 49

Saturation Flow Module:

Sat/Lane: 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600 1600
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: 0.80 0.05 0.15 0.28 0.09 0.63 1.00 1.80 0.20 1.00 1.93 0.07
Final Sat.: 1280 82 238 447 145 1008 1600 2887 313 1600 3089 111

Capacity Analysis Module:

Vol/Sat: 0.09 0.12 0.12 0.03 0.10 0.10 0.01 0.47 0.47 0.02 0.44 0.44
Crit Moves: **** **** ****

*****

Glen Village Apartments  
 Year 2014 With Project - With Improvement  
 Morning Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #1 Gardena Avenue (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.566

Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 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			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1	0	0	1	0	0	1	0	1	1	0	1

Volume Module:

Base Vol:	56	11	15	12	7	65	5	768	110	10	1040	18
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:	56	11	15	12	7	65	5	768	110	10	1040	18
Added Vol:	0	1	0	39	2	4	2	34	0	0	53	13
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	56	12	15	51	9	69	7	802	110	10	1093	31
User Adj:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
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:	59	13	16	54	10	73	7	850	117	11	1159	33
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	59	13	16	54	10	73	7	850	117	11	1159	33
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:	59	13	16	54	10	73	7	850	117	11	1159	33

Saturation Flow Module:

Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
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	0.44	0.56	1.00	0.12	0.88	1.00	1.76	0.24	1.00	1.94	0.06
Final Sat.:	1600	711	889	1600	185	1415	1600	2814	386	1600	3112	88

Capacity Analysis Module:

Vol/Sat:	0.04	0.02	0.02	0.03	0.05	0.05	0.00	0.30	0.30	0.01	0.37	0.37
Crit Moves:	****			****			****			****		

*****

Glen Village Apartments  
 Year 2014 With Project - With Improvement  
 Evening Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****  
 Intersection #1 Gardena Avenue (NS) at Los Feliz Road (EW)  
 *****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.749  
 Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx  
 Optimal Cycle: 100 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:	Permitted			Permitted			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1	0	0	1	0	0	1	0	1	1	0	1

Volume Module:

Base Vol:	140	7	26	14	13	94	5	1204	138	23	1223	12
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:	140	7	26	14	13	94	5	1204	138	23	1223	12
Added Vol:	0	2	0	29	1	3	4	68	0	0	53	34
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	140	9	26	43	14	97	9	1272	138	23	1276	46
User Adj:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
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:	148	10	28	46	15	103	10	1348	146	24	1353	49
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	148	10	28	46	15	103	10	1348	146	24	1353	49
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:	148	10	28	46	15	103	10	1348	146	24	1353	49

Saturation Flow Module:

Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
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	0.26	0.74	1.00	0.13	0.87	1.00	1.80	0.20	1.00	1.93	0.07
Final Sat.:	1600	411	1189	1600	202	1398	1600	2887	313	1600	3089	111

Capacity Analysis Module:

Vol/Sat:	0.09	0.02	0.02	0.03	0.07	0.07	0.01	0.47	0.47	0.02	0.44	0.44
Crit Moves:	****			****			****			****		

*****

Glen Village Apartments  
 Year 2014 With Project  
 Morning Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #2 San Fernando Road (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 1.033  
 Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx  
 Optimal Cycle: 100 Level Of Service: F  
 *****

Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Prot+Permit			Prot+Permit			Prot+Permit			Prot+Permit		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	1	0	2	0	1	1	0	2	0	1	0	1

Volume Module:

Base Vol:	152	451	16	64	766	333	196	453	76	9	789	70
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:	152	451	16	64	766	333	196	453	76	9	789	70
Added Vol:	5	13	0	0	24	9	20	46	7	0	52	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	157	464	16	64	790	342	216	499	83	9	841	70
User Adj:	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
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:	168	496	17	68	845	366	231	534	89	10	900	75
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	168	496	17	68	845	366	231	534	89	10	900	75
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:	168	496	17	68	845	366	231	534	89	10	900	75

Saturation Flow Module:

Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
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	2.00	1.00	1.00	1.40	0.60	1.00	2.00	1.00	1.00	1.85	0.15
Final Sat.:	1600	3200	1600	1600	2233	967	1600	3200	1600	1600	2954	246

Capacity Analysis Module:

Vol/Sat:	0.10	0.16	0.01	0.04	0.38	0.38	0.14	0.17	0.06	0.01	0.30	0.30
Crit Moves:	****			****			****			****		

*****



Glen Village Apartments
Year 2014 With Project
Evening Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #2 San Fernando Road (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap. (X): 1.000

Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 Level Of Service: F

*****

Table with 4 columns: North Bound, South Bound, East Bound, West Bound. Rows include Movement, Control, Rights, Min. Green, and Lanes.

Volume Module:

Table with 12 columns representing different traffic metrics and 12 rows of data including Base Vol, Growth Adj, Initial Bse, etc.

Saturation Flow Module:

Table with 12 columns representing saturation flow metrics and 4 rows of data including Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with 12 columns representing capacity analysis metrics and 2 rows of data including Vol/Sat and Crit Moves.

*****

**Existing With Project Construction**

Glen Village Apartments
Existing Plus Project Construction
Evening Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #101 I-5 Freeway NB Off-Ramp (NS) at Los Feliz Boulevard (EW)

*****

Cycle (sec): 100 Critical Vol./Cap. (X): 0.610
Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 100 Level Of Service: B

*****

Table with 4 columns: North Bound, South Bound, East Bound, West Bound. Rows include Approach, Movement, Control, Rights, Min. Green, and Lanes.

Volume Module table with 13 columns and 14 rows including Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and FinalVolume.

Saturation Flow Module table with 13 columns and 5 rows including Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module table with 13 columns and 3 rows including Vol/Sat, Crit Moves, and asterisks.

*****

Glen Village Apartments  
 Existing Plus Project Construction  
 Evening Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #102 Glenfeliz Boulevard (NS) at Los Feliz Boulevard (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.757

Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 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:	Permitted			Permitted			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0	0	1! 0 0	0	0	1! 0 0	1	0	1 1 0	1	0	1 1 0

Volume Module:

Base Vol:	58	0	52	0	0	0	1	1611	92	59	1517	9
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:	58	0	52	0	0	0	1	1611	92	59	1517	9
Added Vol:	0	0	0	0	0	0	0	0	0	0	87	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	58	0	52	0	0	0	1	1611	92	59	1604	9
User Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
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:	60	0	54	0	0	0	1	1659	95	61	1652	9
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	60	0	54	0	0	0	1	1659	95	61	1652	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:	60	0	54	0	0	0	1	1659	95	61	1652	9

Saturation Flow Module:

Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
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:	0.53	0.00	0.47	0.00	1.00	0.00	1.00	1.89	0.11	1.00	1.99	0.01
Final Sat.:	844	0	756	0	1600	0	1600	3027	173	1600	3182	18

Capacity Analysis Module:

Vol/Sat:	0.04	0.00	0.07	0.00	0.00	0.00	0.00	0.55	0.55	0.04	0.52	0.52
Crit Moves:			****					****	****			

*****

Glen Village Apartments
Existing Plus Project Construction
Evening Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #103 Brunswick Avenue (NS) at Los Feliz Boulevard (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.760

Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 Level Of Service: C

*****

Table with 4 columns: North Bound, South Bound, East Bound, West Bound. Rows include Approach, Movement, Control, Rights, Min. Green, and Lanes.

Volume Module:

Table with 12 columns representing different volume metrics and 12 rows including Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduced Vol, PCE Adj, MLF Adj, and FinalVolume.

Saturation Flow Module:

Table with 12 columns representing saturation flow metrics and 4 rows including Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with 12 columns representing capacity analysis metrics and 2 rows including Vol/Sat and Crit Moves.

*****

Glen Village Apartments  
Existing Plus Project Construction  
Evening Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****  
Intersection #104 Revere Avenue (NS) at Los Feliz Boulevard (EW)  
*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.893  
Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx  
Optimal Cycle: 100 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:	Permitted			Permitted			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0	0	1	0	1	0	1	0	1	1	0	2

Volume Module:

Base Vol:	26	72	19	97	61	198	259	1123	40	37	1200	47
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	72	19	97	61	198	259	1123	40	37	1200	47
Added Vol:	87	0	72	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	113	72	91	97	61	198	259	1123	40	37	1200	47
User Adj:	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
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:	116	74	94	100	63	204	267	1157	41	38	1236	48
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	116	74	94	100	63	204	267	1157	41	38	1236	48
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:	116	74	94	100	63	204	267	1157	41	38	1236	48

Saturation Flow Module:

Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
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:	0.41	0.26	0.33	0.61	0.39	1.00	1.00	1.93	0.07	1.00	2.00	1.00
Final Sat.:	655	417	528	982	618	1600	1600	3090	110	1600	3200	1600

Capacity Analysis Module:

Vol/Sat:	0.07	0.18	0.18	0.06	0.10	0.13	0.17	0.37	0.37	0.02	0.39	0.03
Crit Moves:	****			****			****			****		

*****

Glen Village Apartments
Existing Plus Project Construction
Evening Peak Hour

Level Of Service Computation Report

ICU 1 (Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #1 Gardena Avenue (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.744

Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 Level Of Service: C

*****

Table with 4 columns: North Bound, South Bound, East Bound, West Bound. Rows include Movement, Control, Rights, Min. Green, and Lanes.

Volume Module:

Table with 12 columns representing different volume metrics and 12 rows for various adjustment factors like Base Vol, Growth Adj, Initial Bse, etc.

Saturation Flow Module:

Table with 12 columns for saturation flow metrics and 4 rows for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with 12 columns for capacity analysis metrics and 3 rows for Vol/Sat, Crit Moves, and asterisks.

*****

Glen Village Apartments
Existing Plus Project Construction
Evening Peak Hour

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

*****

Intersection #2 San Fernando Road (NS) at Los Feliz Road (EW)

*****

Cycle (sec): 100 Critical Vol./Cap. (X): 0.936
Loss Time (sec): 10 (Y+R=0.0 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 100 Level Of Service: E

*****

Table with 4 columns: North Bound, South Bound, East Bound, West Bound. Rows include Movement, Control, Rights, Min. Green, and Lanes.

Volume Module:

Table with 13 columns representing different volume and adjustment factors. Rows include Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module:

Table with 13 columns representing saturation flow and adjustment factors. Rows include Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with 13 columns representing capacity analysis factors. Rows include Vol/Sat and Crit Moves.

*****



**APPENDIX D**

**On-Site Parking Leases**



GATEWAY ANIMAL HOSPITAL

GATEWAY ANIMAL HOSPITAL  
431 WEST LOS FELIZ BOULEVARD • GLENDALE, CA 91204

(818)244-2934  
(818)244-7234  
(323)256-5840


February 3, 2010

Avalor Land, LLC  
3200 Wilshire Boulevard  
Los Angeles, CA 90010  
Attn: Andrew Chu

Dear Andrew,

As per our phone conversation, we agree to vacate the parking area we have leased from you at 435 W. Los Feliz Road, within 30 days of written notice from you.

Thank you

  
Rafaela Villicana  
Gateway Animal Hospital  
431 W. Los Feliz Road  
Glendale, CA 91204



(213) 626 88 00

January 29, 2010

Mr. Andrew Chu  
General Manager  
Avalon Land LLC  
3200 Wilshire Blvd  
North Tower #1100  
Los Angeles, CA 90010

Dear Mr. Chu,

Trans Aid Inc. is respectfully requesting an extension on our current lease for your vacant lot across from our business, so we may locate replacement parking. At this time we feel an extension of July 2010 would be sufficient to find new parking.

If you have any questions or concerns please feel free to contact me at 818-265-5151 ext. 11.

Margarita Nichole  
Vice President of Operations

A handwritten signature in cursive script, appearing to read "Margarita Nichole", followed by a horizontal line.



# KUNZMAN ASSOCIATES, INC.

OVER 35 YEARS OF EXCELLENT SERVICE

May 13, 2013

AVALON LAND COMPANY, LLC  
c/o Mr. Dale Kim, Project Executive  
MITAA MANAGEMENT, LLC  
3200 Wilshire Boulevard, Suite 1100 North Tower  
Los Angeles, CA 90010

Dear Mr. Kim:

## INTRODUCTION

The firm of Kunzman Associates, Inc. is pleased to provide this traffic analysis addendum for the Tropico Apartments project in the City of Glendale. This traffic analysis is an addendum to the Glen Village Apartments Traffic Impact Analysis prepared by Kunzman Associates, Inc. (August 31, 2012). Based upon a discussion with City of Glendale staff, this traffic analysis focuses on the intersection of Seneca Avenue/Los Feliz Boulevard in the City of Los Angeles. It should be noted that the Tropico Apartments project is not projected to add 50 or more trips to the Seneca Avenue/Los Feliz Boulevard intersection during either the morning or evening weekday peak periods requiring analysis based upon the Congestion Management Program criteria.

The Tropico Apartments project is located on the northwest corner of Gardena Avenue and Los Feliz Road in the City of Glendale. The proposed development consists of 238 dwelling units of mid-rise apartments.

Although this is a technical report, every effort has been made to write the report clearly and concisely. To assist the reader with those terms unique to transportation engineering, a glossary of terms is provided in Appendix A.

## ANALYSIS METHODOLOGY

In the City of Los Angeles, the Transportation Research Board Critical Movement Analysis, Circular 212 Planning Methodology, is used to analyze traffic operating conditions at the study intersections. Critical Movement Analysis is a method which determines the volume to capacity ratio on a critical lane basis and Level of Service associated with each volume to capacity ratio at a signalized intersection.

The Levels of Service have been calculated for the Seneca Avenue/Los Feliz Boulevard intersection. Existing Levels of Service are based upon manual morning and evening peak hour intersection turning movement counts obtained by Kunzman Associates, Inc. in April 2013. Traffic count worksheets are provided in Appendix B.

1111 TOWN & COUNTRY ROAD, SUITE 34  
ORANGE, CALIFORNIA 92868  
(714) 973-8383

[WWW.TRAFFIC-ENGINEER.COM](http://WWW.TRAFFIC-ENGINEER.COM)

AVALON LAND COMPANY, LLC  
c/o Mr. Dale Kim, Project Executive  
May 13, 2013

The Seneca Avenue/Los Feliz Boulevard intersection currently operates at Level of Service B or better during the peak hours for Existing traffic conditions. Existing Level of Service worksheets are provided in Appendix C.

The Seneca Avenue/Los Feliz Boulevard intersection is projected to operate at Level of Service B or better during the peak hours for Existing Plus Project traffic conditions. Existing Plus Project Level of Service worksheets are provided in Appendix C.

The Seneca Avenue/Los Feliz Boulevard intersection is projected to operate at Level of Service B or better during the peak hours for Year 2014 Without Project traffic conditions. Year 2014 Without Project Level of Service worksheets are provided in Appendix C.

The Seneca Avenue/Los Feliz Boulevard intersection is projected to operate at Level of Service B or better during the peak hours for Year 2014 With Project traffic conditions. Year 2014 With Project Level of Service worksheets are provided in Appendix C.

#### DEFINITION OF DEFICIENCY

If the intersection has to be analyzed for deficiencies, then mitigation is required if the existing traffic plus anticipated traffic growth plus project traffic does cause the Levels of Service to go above a certain point.

In the City of Los Angeles, the impact is considered significant for intersections if the project related increase in the volume to capacity ratio equals or exceeds the threshold shown below:

City of Los Angeles Significant Impact Threshold for Signalized Intersections		
Level of Service	Volume/Capacity	Incremental Increase
C	0.70-0.79	0.04 or more
D	0.80-0.89	0.02 or more
E/F	0.90 - more	0.01 or more

#### CONCLUSIONS

The proposed development is not projected to generate a significant impact at the City of Los Angeles intersection at Seneca Avenue/Los Feliz Boulevard.

AVALON LAND COMPANY, LLC  
c/o Mr. Dale Kim, Project Executive  
May 13, 2013

It has been a pleasure to service your needs on this project. Should you have any questions or if we can be of further assistance, please do not hesitate to call at (714) 973-8383.

Sincerely,

KUNZMAN ASSOCIATES , INC.



Carl Ballard, LEED GA  
Principal Associate

#5172a



KUNZMAN ASSOCIATES, INC.



William Kunzman, P.E.  
Principal

**APPENDIX A**

**GLOSSARY OF TRANSPORTATION TERMS**

## GLOSSARY OF TRANSPORTATION TERMS

### COMMON ABBREVIATIONS

AC:	Acres
ADT:	Average Daily Traffic
Caltrans:	California Department of Transportation
DU:	Dwelling Unit
ICU:	Intersection Capacity Utilization
LOS:	Level of Service
TSF:	Thousand Square Feet
V/C:	Volume/Capacity
VMT:	Vehicle Miles Traveled

### TERMS

**AVERAGE DAILY TRAFFIC:** The total volume during a year divided by the number of days in a year. Usually only weekdays are included.

**BANDWIDTH:** The number of seconds of green time available for through traffic in a signal progression.

**BOTTLENECK:** A constriction along a travelway that limits the amount of traffic that can proceed downstream from its location.

**CAPACITY:** The maximum number of vehicles that can be reasonably expected to pass over a given section of a lane or a roadway in a given time period.

**CHANNELIZATION:** The separation or regulation of conflicting traffic movements into definite paths of travel by the use of pavement markings, raised islands, or other suitable means to facilitate the safe and orderly movements of both vehicles and pedestrians.

**CLEARANCE INTERVAL:** Nearly same as yellow time. If there is an all red interval after the end of a yellow, then that is also added into the clearance interval.

**CORDON:** An imaginary line around an area across which vehicles, persons, or other items are counted (in and out).

**CYCLE LENGTH:** The time period in seconds required for one complete signal cycle.

**CUL-DE-SAC STREET:** A local street open at one end only, and with special provisions for turning around.



**DAILY CAPACITY:** The daily volume of traffic that will result in a volume during the peak hour equal to the capacity of the roadway.

**DELAY:** The time consumed while traffic is impeded in its movement by some element over which it has no control, usually expressed in seconds per vehicle.

**DEMAND RESPONSIVE SIGNAL:** Same as traffic-actuated signal.

**DENSITY:** The number of vehicles occupying in a unit length of the through traffic lanes of a roadway at any given instant. Usually expressed in vehicles per mile.

**DETECTOR:** A device that responds to a physical stimulus and transmits a resulting impulse to the signal controller.

**DESIGN SPEED:** A speed selected for purposes of design. Features of a highway, such as curvature, superelevation, and sight distance (upon which the safe operation of vehicles is dependent) are correlated to design speed.

**DIRECTIONAL SPLIT:** The percent of traffic in the peak direction at any point in time.

**DIVERSION:** The rerouting of peak hour traffic to avoid congestion.

**FORCED FLOW:** Opposite of free flow.

**FREE FLOW:** Volumes are well below capacity. Vehicles can maneuver freely and travel is unimpeded by other traffic.

**GAP:** Time or distance between successive vehicles in a traffic stream, rear bumper to front bumper.

**HEADWAY:** Time or distance spacing between successive vehicles in a traffic stream, front bumper to front bumper.

**INTERCONNECTED SIGNAL SYSTEM:** A number of intersections that are connected to achieve signal progression.

**LEVEL OF SERVICE:** A qualitative measure of a number of factors, which include speed and travel time, traffic interruptions, freedom to maneuver, safety, driving comfort and convenience, and operating costs.

**LOOP DETECTOR:** A vehicle detector consisting of a loop of wire embedded in the roadway, energized by alternating current and producing an output circuit closure when passed over by a vehicle.

**MINIMUM ACCEPTABLE GAP:** Smallest time headway between successive vehicles in a traffic stream into which another vehicle is willing and able to cross or merge.

**MULTI-MODAL:** More than one mode; such as automobile, bus transit, rail rapid transit, and bicycle transportation modes.

**OFFSET:** The time interval in seconds between the beginning of green at one intersection and the beginning of green at an adjacent intersection.

**PLATOON:** A closely grouped component of traffic that is composed of several vehicles moving, or standing ready to move, with clear spaces ahead and behind.

**ORIGIN-DESTINATION SURVEY:** A survey to determine the point of origin and the point of destination for a given vehicle trip.

**PASSENGER CAR EQUIVALENTS (PCE):** One car is one Passenger Car Equivalent. A truck is equal to 2 or 3 Passenger Car Equivalents in that a truck requires longer to start, goes slower, and accelerates slower. Loaded trucks have a higher Passenger Car Equivalent than empty trucks.

**PEAK HOUR:** The 60 consecutive minutes with the highest number of vehicles.

**PRETIMED SIGNAL:** A type of traffic signal that directs traffic to stop and go on a predetermined time schedule without regard to traffic conditions. Also, fixed time signal.

**PROGRESSION:** A term used to describe the progressive movement of traffic through several signalized intersections.

**SCREEN-LINE:** An imaginary line or physical feature across which all trips are counted, normally to verify the validity of mathematical traffic models.

**SIGNAL CYCLE:** The time period in seconds required for one complete sequence of signal indications.

**SIGNAL PHASE:** The part of the signal cycle allocated to one or more traffic movements.

**STARTING DELAY:** The delay experienced in initiating the movement of queued traffic from a stop to an average running speed through a signalized intersection.

**TRAFFIC-ACTUATED SIGNAL:** A type of traffic signal that directs traffic to stop and go in accordance with the demands of traffic, as registered by the actuation of detectors.

**TRIP:** The movement of a person or vehicle from one location (origin) to another (destination). For example, from home to store to home is two trips, not one.

**TRIP-END:** One end of a trip at either the origin or destination; i.e. each trip has two trip-ends. A trip-end occurs when a person, object, or message is transferred to or from a vehicle.

**TRIP GENERATION RATE:** The quality of trips produced and/or attracted by a specific land use stated in terms of units such as per dwelling, per acre, and per 1,000 square feet of floor space.

**TRUCK:** A vehicle having dual tires on one or more axles, or having more than two axles.

**UNBALANCED FLOW:** Heavier traffic flow in one direction than the other. On a daily basis, most facilities have balanced flow. During the peak hours, flow is seldom balanced in an urban area.

**VEHICLE MILES OF TRAVEL:** A measure of the amount of usage of a section of highway, obtained by multiplying the average daily traffic by length of facility in miles.

**APPENDIX B**

**TRAFFIC COUNT WORKSHEETS**

# Intersection Turning Movement

Prepared by:

**National Data & Surveying Services**

Project ID: CA13_5219_001

Day: WEDNESDAY

City: City of Glendale

Date: 4/24/2013

AM													
NS/EW Streets:	Seneca Ave			Seneca Ave			Los Feliz Blvd			Los Feliz Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
7:00 AM	2	4	3	13	0	8	6	92	2	3	221	11	365
7:15 AM	2	0	2	8	0	7	1	101	3	4	236	14	378
7:30 AM	3	1	5	12	0	9	6	136	2	0	250	5	429
7:45 AM	0	0	7	10	0	1	5	198	4	3	292	12	532
8:00 AM	2	1	3	7	0	4	4	170	3	2	286	12	494
8:15 AM	2	0	3	9	2	5	4	179	5	2	309	23	543
8:30 AM	3	0	4	8	0	12	7	182	5	2	283	16	522
8:45 AM	4	0	2	9	2	8	3	196	4	7	266	14	515
<b>TOTAL VOLUMES :</b>	<b>18</b>	<b>6</b>	<b>29</b>	<b>76</b>	<b>4</b>	<b>54</b>	<b>36</b>	<b>1254</b>	<b>28</b>	<b>23</b>	<b>2143</b>	<b>107</b>	<b>3778</b>
<b>APPROACH %'s :</b>	<b>33.96%</b>	<b>11.32%</b>	<b>54.72%</b>	<b>56.72%</b>	<b>2.99%</b>	<b>40.30%</b>	<b>2.73%</b>	<b>95.14%</b>	<b>2.12%</b>	<b>1.01%</b>	<b>94.28%</b>	<b>4.71%</b>	
<b>PEAK HR START TIME :</b>	<b>745 AM</b>												<b>TOTAL</b>
<b>PEAK HR VOL :</b>	<b>7</b>	<b>1</b>	<b>17</b>	<b>34</b>	<b>2</b>	<b>22</b>	<b>20</b>	<b>729</b>	<b>17</b>	<b>9</b>	<b>1170</b>	<b>63</b>	<b>2091</b>
<b>PEAK HR FACTOR :</b>	<b>0.893</b>			<b>0.725</b>			<b>0.925</b>			<b>0.930</b>			<b>0.963</b>

CONTROL : Signalized

# Intersection Turning Movement

Prepared by:

**National Data & Surveying Services**

Project ID: CA13_5219_001

Day: WEDNESDAY

City: City of Glendale

Date: 4/24/2013

		PM											
NS/EW Streets:	Seneca Ave			Seneca Ave			Los Feliz Blvd			Los Feliz Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	0	1	0	.5	.5	1	1	2	0	1	2	1	
4:00 PM	7	5	10	71	11	55	32	222	4	6	232	62	717
4:15 PM	6	4	1	68	9	65	34	233	12	6	231	84	753
4:30 PM	3	4	6	76	11	65	39	263	5	12	233	84	801
4:45 PM	9	7	7	58	9	56	44	265	8	6	237	71	777
5:00 PM	4	4	8	85	10	55	41	230	12	9	271	84	813
5:15 PM	7	4	8	73	8	55	30	244	6	11	248	91	785
5:30 PM	5	1	9	60	9	57	26	236	5	7	251	64	730
5:45 PM	2	4	11	73	14	76	33	290	10	10	209	85	817
<b>TOTAL VOLUMES :</b>	43	33	60	564	81	484	279	1983	62	67	1912	625	6193
<b>APPROACH %'s :</b>	31.62%	24.26%	44.12%	49.96%	7.17%	42.87%	12.01%	85.33%	2.67%	2.57%	73.43%	24.00%	
<b>PEAK HR START TIME :</b>	430 PM												<b>TOTAL</b>
<b>PEAK HR VOL :</b>	23	19	29	292	38	231	154	1002	31	38	989	330	3176
<b>PEAK HR FACTOR :</b>	0.772			0.923			0.936			0.932			0.977

CONTROL : Signalized

**APPENDIX C**

**EXPLANATION AND CALCULATION OF  
INTERSECTION CAPACITY UTILIZATION**

## EXPLANATION AND CALCULATION OF INTERSECTION CAPACITY UTILIZATION

### Overview

The ability of a roadway to carry traffic is referred to as capacity. The capacity is usually greater between intersections and less at intersections because traffic flows continuously between them and only during the green phase at them. Capacity at intersections is best defined in terms of vehicles per lane per hour of green. If capacity is 1600 vehicles per lane per hour of green, and if the green phase is 50 percent of the cycle and there are three lanes, then the capacity is 1600 times 50 percent times 3 lanes, or 2400 vehicles per hour for that approach.

The technique used to compare the volume and capacity at an intersection is known as Intersection Capacity Utilization. Intersection Capacity Utilization, usually expressed as a percent, is the proportion of an hour required to provide sufficient capacity to accommodate all intersection traffic if all approaches operate at capacity. If an intersection is operating at 80 percent of capacity (i.e., an Intersection Capacity Utilization of 80 percent), then 20 percent of the signal cycle is not used. The signal could show red on all indications 20 percent of the time and the signal would just accommodate approaching traffic.

Intersection Capacity Utilization analysis consists of (a) determining the proportion of signal time needed to serve each conflicting movement of traffic, (b) summing the times for the movements, and (c) comparing the total time required to the total time available. For example, if for north-south traffic the northbound traffic is 1600 vehicles per hour, the southbound traffic is 1200 vehicles per hour, and the capacity of either direction is 3200 vehicles per hour, then the northbound traffic is critical and requires  $1600/3200$  or 50 percent of the signal time. If for east-west traffic, 30 percent of the signal time is required, then it can be seen that the Intersection Capacity Utilization is 50 plus 30, or 80 percent. When left turn arrows (left turn phasing) exist, they are incorporated into the analysis. The critical movements are usually the heavy left turn movements and the opposing through movements.

The Intersection Capacity Utilization technique is an ideal tool to quantify existing as well as future intersection operation. The impact of adding a lane can be quickly determined by examining the effect the lane has on the Intersection Capacity Utilization.



### **Intersection Capacity Utilization Worksheets That Follow This Discussion**

The Intersection Capacity Utilization worksheet table contains the following information:

1. Peak hour turning movement volumes.
2. Number of lanes that serve each movement.
3. For right turn lanes, whether the lane is a free right turn lane, whether it has a right turn arrow, and the percent of right turns on red that are assumed.
4. Capacity assumed per lane.
5. Capacity available to serve each movement (number of lanes times capacity per lane).
6. Volume to capacity ratio for each movement.
7. Whether the movement's volume to capacity ratio is critical and adds to the Intersection Capacity Utilization value.
8. The yellow time or clearance interval assumed.
9. Adjustments for right turn movements.
10. The Intersection Capacity Utilization and Level of Service.

The Intersection Capacity Utilization Worksheet also has two graphics on the same page. These two graphics show the following:

1. Peak hour turning movement volumes.
2. Number of lanes that serve each movement.
3. The approach and exit leg volumes.
4. The two-way leg volumes.
5. An estimate of daily traffic volumes that is fairly close to actual counts and is based strictly on the peak hour leg volumes multiplied by a factor.

6. Percent of daily traffic in peak hours.
7. Percent of peak hour leg volume that is inbound versus outbound.

A more detailed discussion of Intersection Capacity Utilization and Level of Service follows.

### **Level of Service**

Level of Service is used to describe the quality of traffic flow. Levels of Service A to C operate quite well. Level of Service C is typically the standard to which rural roadways are designed.

Level of Service D is characterized by fairly restricted traffic flow. Level of Service D is the standard to which urban roadways are typically designed. Level of Service E is the maximum volume a facility can accommodate and will result in possible stoppages of momentary duration. Level of Service F occurs when a facility is overloaded and is characterized by stop-and-go traffic with stoppages of long duration.

A description of the various Levels of Service appears at the end of the ICU description, along with the relationship between Intersection Capacity Utilization and Level of Service.

### **Signalized and Unsignalized Intersections**

Although calculating an Intersection Capacity Utilization value for an unsignalized intersection is invalid, the presumption is that a signal can be installed and the calculation shows whether the geometrics are capable of accommodating the expected volumes with a signal. A traffic signal becomes warranted before Level of Service D is reached for a signalized intersection.

### **Signal Timing**

The Intersection Capacity Utilization calculation assumes that a signal is properly timed. It is possible to have an Intersection Capacity Utilization well below 100 percent, yet have severe traffic congestion. This would occur if one or more movements is not getting sufficient green time to satisfy its demand, and excess green time exists on other movements. This is an operational problem that should be remedied.

### **Lane Capacity**

Capacity is often defined in terms of roadway width; however, standard lanes have approximately the same capacity whether they are 11 or 14 feet wide. Our data indicates a typical lane, whether a through lane or a left turn lane, has a capacity of approximately 1750 vehicles per hour of green time, with nearly all locations showing a capacity greater than 1600 vehicles per hour of green per lane. Right turn lanes have a slightly lower capacity; however 1600 vehicles per hour is a valid capacity assumption for right turn lanes.

This finding is published in the August, 1978 issue of Institute of Transportation Engineers Journal in the article entitled, "Another Look at Signalized Intersection Capacity" by William Kunzman, P.E. A capacity of 1600 vehicles per hour per lane with no yellow time penalty, or 1700 vehicles per hour with a 3 or 5 percent yellow time penalty is reasonable.

### **Yellow Time**

The yellow time can either be assumed to be completely used and no penalty applied, or it can be assumed to be only partially usable. Total yellow time accounts for approximately 10 percent of a signal cycle, and a penalty of 3 to 5 percent is reasonable.

During peak hour traffic operation the yellow times are nearly completely used. If there is no left turn phasing, the left turn vehicles completely use the yellow time. Even if there is left turn phasing, the through traffic continues to enter the intersection on the yellow until just a split second before the red.

### **Shared Lanes**

Shared lanes occur in many locations. A shared lane is often found at the end of an off ramp where the ramp forms an intersection with the cross street. Often at a diamond interchange off ramp, there are three lanes. In the case of a diamond interchange, the middle lane is sometimes shared, and the driver can turn left, go through, or turn right from that lane.

If one assumes a three lane off ramp as described above, and if one assumes that each lane has 1600 capacity, and if one assumes that there are 1000 left turns per hour, 500 right turns per hour, and 100 through vehicles per hour, then how should one assume that the three lanes operate. There are three ways that it is done.

One way is to just assume that all 1600 vehicles (1000 plus 500 plus 100) are served simultaneously by three lanes. When this is done, the capacity is 3 times 1600 or 4800, and the amount of green time needed to serve the ramp is 1600 vehicles divided by 4800 capacity or 33.3 percent. This assumption effectively assumes perfect lane distribution between the three lanes that is not realistic. It also means a left turn can be made from the right lane.

Another way is to equally split the capacity of a shared lane and in this case to assume there are 1.33 left turn lanes, 1.33 right turn lanes, and 0.33 through lanes. With this assumption, the critical movement is the left turns and the 1000 left turns are served by a capacity of 1.33 times 1600, or 2133. The volume to capacity ratio of the critical move is 1000 divided by 2133 or 46.9 percent.

The first method results in a critical move of 33.3 percent and the second method results in a critical move of 46.9 percent. Neither is very accurate, and the difference in the calculated Level of Service will be approximately 1.5 Levels of Service (one Level of Service is 10 percent).

The way Kunzman Associates, Inc. does it is to assign fractional lanes in a reasonable way. In this example, it would be assumed that there is 1.1 right turn lanes, 0.2 through lanes, and 1.7 left turn lanes. The volume to capacity ratios for each movement would be 31.3 percent for the through traffic, 28.4 percent for the right turn movement, and 36.8 percent for the left turn movement. The critical movement would be the 36.8 percent for the left turns.

#### **Right Turn on Red**

Kunzman Associates, Inc. software treats right turn lanes in one of five different ways. Each right turn lane is classified into one of five cases. The five cases are (1) free right turn lane, (2) right turn lane with separate right turn arrow, (3) standard right turn lane with no right turns on red allowed, (4) standard right turn lane with a certain percentage of right turns on red allowed, and (5) separate right turn arrow and a certain percentage of right turns on red allowed.

#### **Free Right Turn Lane**

If it is a free right turn lane, then it is given a capacity of one full lane with continuous or 100 percent green time. A Free right turn lane occurs when there is a separate approach lane for right turning vehicles, there is a separate departure lane for the right turning vehicles after they turn and are exiting the intersection, and the through cross street traffic does not interfere with the vehicles after they turn right.

### **Separate Right Turn Arrow**

If there is a separate right turn arrow, then it is assumed that vehicles are given a green indication and can proceed on what is known as the left turn overlap.

The left turn overlap for a northbound right turn is the westbound left turn. When the left turn overlap has a green indication, the right turn lane is also given a green arrow indication. Thus, if there is a northbound right turn arrow, then it can be turned green for the period of time that the westbound left turns are proceeding.

If there are more right turns than can be accommodated during the northbound through green and the time that the northbound right turn arrow is on, then an adjustment is made to the Intersection Capacity Utilization to account for the green time that needs to be added to the northbound through green to accommodate the northbound right turns.

### **Standard Right Turn Lane, No Right Turns on Red**

A standard right turn lane, with no right turn on red assumed, proceeds only when there is a green indication displayed for the adjacent through movement. If additional green time is needed above that amount of time, then in the Intersection Capacity Utilization calculation a right turn adjustment green time is added above the green time that is needed to serve the adjacent through movement.

### **Standard Right Turn Lane, With Right Turns on Red**

A standard right turn lane with say 20 percent of the right turns allowed to turn right on a red indication is calculated the same as the standard right turn case where there is no right turn on red allowed, except that the right turn adjustment is reduced to account for the 20 percent of the right turning vehicles that can logically turn right on a red light. The right turns on red are never allowed to exceed the time the overlap left turns take plus the unused part of the green cycle that the cross street traffic moving from left to right has.

As an example of how 20 percent of the cars are allowed to turn right on a red indication, assume that the northbound right turn volume needs 40 percent of the signal cycle to be satisfied. To allow 20 percent of the northbound right turns to turn right on red, then during 8 percent of the signal cycle (40 percent of signal cycle times 20 percent that can turn right on red) right turns on red will be allowed if it is feasible.

For this example, assume that 15 percent of the signal cycle is green for the northbound through traffic, and that means that 15 percent of the signal cycle is

available to satisfy northbound right turns. After the northbound through traffic has received its green, 25 percent of the signal cycle is still needed to satisfy the northbound right turns (40 percent of the signal cycle minus the 15 percent of the signal cycle that the northbound through used).

Assume that the westbound left turns require a green time of 6 percent of the signal cycle. This 6 percent of the signal cycle is used by northbound right turns on red. After accounting for the northbound right turns that occur on the westbound overlap left turn, 19 percent of the signal cycle is still needed for the northbound right turns (25 percent of the cycle was needed after the northbound through green time was accounted for [see above paragraph], and 6 percent was served during the westbound left turn overlap). Also, at this point 6 percent of the signal cycle has been used for northbound right turns on red, and still 2 percent more of the right turns will be allowed to occur on the red if there is unused eastbound through green time.

For purpose of this example, assume that the westbound through green is critical, and that 15 percent of the signal cycle is unused by eastbound through traffic. Thus, 2 percent more of the signal cycle can be used by the northbound right turns on red since there is 15 seconds of unused green time being given to the eastbound through traffic.

At this point, 8 percent of the signal cycle was available to serve northbound right turning vehicles on red, and 15 percent of the signal cycle was available to serve right turning vehicles on the northbound through green. So 23 percent of the signal cycle has been available for northbound right turns.

Because 40 percent of the signal cycle is needed to serve northbound right turns, there is still a need for 17 percent more of the signal cycle to be available for northbound right turns. What this means is the northbound through traffic green time is increased by 17 percent of the cycle length to serve the unserved right turn volume, and a 17 percent adjustment is added to the Intersection Capacity Utilization to account for the northbound right turns that were not served on the northbound through green time or when right turns on red were assumed.

#### **Separate Right Turn Arrow, With Right Turns on Red**

A right turn lane with a separate right turn arrow, plus a certain percentage of right turns allowed on red is calculated the same way as a standard right turn lane with a certain percentage of right turns allowed on red, except the turns which occur on the right turn arrow are not counted as part of the percentage of right turns that occur on red.

### **Critical Lane Method**

Intersection Capacity Utilization parallels another calculation procedure known as the Critical Lane Method with one exception. Critical Lane Method dimensions capacity in terms of standardized vehicles per hour per lane. A Critical Lane Method result of 800 vehicles per hour means that the intersection operates as though 800 vehicles were using a single lane continuously. If one assumes a lane capacity of 1600 vehicles per hour, then a Critical Lane Method calculation resulting in 800 vehicles per hour is the same as an Intersection Capacity Utilization calculation of 50 percent since  $800/1600$  is 50 percent. It is our opinion that the Critical Lane Method is inferior to the Intersection Capacity Utilization method simply because a statement such as "The Critical Lane Method value is 800 vehicles per hour" means little to most persons, whereas a statement such as "The Intersection Capacity Utilization is 50 percent" communicates clearly. Critical Lane Method results directly correspond to Intersection Capacity Utilization results. The correspondence is as follows, assuming a lane capacity of 1600 vehicles per hour and no clearance interval.

<b><u>Critical Lane Method Result</u></b>	<b><u>Intersection Capacity Utilization Result</u></b>
800 vehicles per hour	50 percent
960 vehicles per hour	60 percent
1120 vehicles per hour	70 percent
1280 vehicles per hour	80 percent
1440 vehicles per hour	90 percent
1600 vehicles per hour	100 percent
1760 vehicles per hour	110 percent

**INTERSECTION CAPACITY UTILIZATION  
LEVEL OF SERVICE DESCRIPTION¹**

Level of Service	Description	Volume to Capacity Ratio
A	Level of Service A occurs when progression is extremely favorable and vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.	0.600 and below
B	Level of Service B generally occurs with good progression and/or short cycle lengths. More vehicles stop than for Level of Service A, causing higher levels of average delay.	0.601 to 0.700
C	Level of Service C generally results when there is fair progression and/or longer cycle lengths. Individual cycle failures may begin to appear in this level. The number of vehicles stopping is significant at this level, although many still pass through the intersection without stopping.	0.701 to 0.800
D	Level of Service D generally results in noticeable congestion. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high volume to capacity ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.	0.801 to 0.900
E	Level of Service E is considered to be the limit of acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high volume to capacity ratios. Individual cycle failures are frequent.	0.901 to 1.000
F	Level of Service F is considered to be unacceptable to most drivers. This condition often occurs when oversaturation, i.e., when arrival flow rates exceed the capacity of the intersection. It may also occur at high volume to capacity ratios below 1.00 with many individual cycle failures. Poor progression and long cycle lengths may also be major contributing causes to such delay levels.	1.001 and up

¹ Source: Highway Capacity Manual Special Report 209, Transportation Research Board, National Research Council Washington D.C., 2000.



**Existing**

Tropico Apartments  
Existing  
Morning Peak Hour

Level Of Service Computation Report  
Circular 212 Planning Method (Base Volume Alternative)

*****  
Intersection #1 Seneca Avenue (NS) at Los Feliz Boulevard (EW)  
*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.443  
Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx  
Optimal Cycle: 100 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			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Lanes:	0	0	1	0	1	0	1	0	1	1	0	2

Volume Module:

Base Vol:	7	1	17	34	2	22	20	729	17	9	1170	63
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:	7	1	17	34	2	22	20	729	17	9	1170	63
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:	7	1	17	34	2	22	20	729	17	9	1170	63
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	7	1	17	34	2	22	20	729	17	9	1170	63
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:	7	1	17	34	2	22	20	729	17	9	1170	63

Saturation Flow Module:

Sat/Lane:	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
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:	0.28	0.04	0.68	0.94	0.06	1.00	1.00	1.95	0.05	1.00	2.00	1.00
Final Sat.:	420	60	1020	1417	83	1500	1500	2932	68	1500	3000	1500

Capacity Analysis Module:

Vol/Sat:	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.25	0.25	0.01	0.39	0.04
Crit Volume:	25			34			20			585		
Crit Moves:	****			****			****			****		

Tropico Apartments  
Existing  
Evening Peak Hour

Level Of Service Computation Report  
Circular 212 Planning Method (Base Volume Alternative)

*****  
Intersection #1 Seneca Avenue (NS) at Los Feliz Boulevard (EW)  
*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.605  
Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx  
Optimal Cycle: 100 Level Of Service: B

*****

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			Permitted			Permitted							
Rights:	Include			Include			Include			Include							
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10					
Lanes:	0	0	1	0	0	0	0	1	0	1	1	0	1	0	2	0	1

-----|-----|-----|-----|-----|

Volume Module:

Base Vol:	23	19	29	292	38	231	154	1002	31	38	989	330
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:	23	19	29	292	38	231	154	1002	31	38	989	330
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:	23	19	29	292	38	231	154	1002	31	38	989	330
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	23	19	29	292	38	231	154	1002	31	38	989	330
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:	23	19	29	292	38	231	154	1002	31	38	989	330

-----|-----|-----|-----|-----|

Saturation Flow Module:

Sat/Lane:	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
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:	0.32	0.27	0.41	0.88	0.12	1.00	1.00	1.94	0.06	1.00	2.00	1.00
Final Sat.:	486	401	613	1327	173	1500	1500	2910	90	1500	3000	1500

-----|-----|-----|-----|-----|

Capacity Analysis Module:

Vol/Sat:	0.05	0.05	0.05	0.22	0.22	0.15	0.10	0.34	0.34	0.03	0.33	0.22
Crit Volume:	23			330					517	38		
Crit Moves:	****			****					****	****		

*****

**Existing Plus Project**

Tropico Apartments  
Existing Plus Project  
Morning Peak Hour

Level Of Service Computation Report  
Circular 212 Planning Method (Future Volume Alternative)

*****  
Intersection #1 Seneca Avenue (NS) at Los Feliz Boulevard (EW)  
*****

Cycle (sec): 100 Critical Vol./Cap. (X): 0.444  
Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx  
Optimal Cycle: 100 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			Permitted			Permitted										
Rights:	Include			Include			Include			Include										
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10								
Lanes:	0	0	1	0	0	0	1	0	0	1	1	0	1	1	0	1	0	2	0	1

-----|-----|-----|-----|-----|

Volume Module:

Base Vol:	7	1	17	34	2	22	20	729	17	9	1170	63
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:	7	1	17	34	2	22	20	729	17	9	1170	63
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	2	0	0	4	0
Initial Fut:	7	1	17	34	2	22	20	731	17	9	1174	63
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:	7	1	17	34	2	22	20	731	17	9	1174	63
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	7	1	17	34	2	22	20	731	17	9	1174	63
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:	7	1	17	34	2	22	20	731	17	9	1174	63

-----|-----|-----|-----|-----|

Saturation Flow Module:

Sat/Lane:	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
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:	0.28	0.04	0.68	0.94	0.06	1.00	1.00	1.95	0.05	1.00	2.00	1.00
Final Sat.:	420	60	1020	1417	83	1500	1500	2932	68	1500	3000	1500

-----|-----|-----|-----|-----|

Capacity Analysis Module:

Vol/Sat:	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.25	0.25	0.01	0.39	0.04
Crit Volume:	25			34			20			587		
Crit Moves:	****			****			****			****		

*****

Tropico Apartments  
Existing Plus Project  
Evening Peak Hour

Level Of Service Computation Report

Circular 212 Planning Method (Future Volume Alternative)

*****

Intersection #1 Seneca Avenue (NS) at Los Feliz Boulevard (EW)

*****

Cycle (sec): 100 Critical Vol./Cap. (X): 0.606

Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 Level Of Service: B

*****

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			Permitted			Permitted		
Rights:	Include			Include			Include			Include		

Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
-------------	----	----	----	----	----	----	----	----	----	----	----	----

Lanes:	0	0	1	0	0	0	1	0	0	1	1	0	1	1	0	1	0	2	0	1
--------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Volume Module:

Base Vol:	23	19	29	292	38	231	154	1002	31	38	989	330
-----------	----	----	----	-----	----	-----	-----	------	----	----	-----	-----

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:	23	19	29	292	38	231	154	1002	31	38	989	330
--------------	----	----	----	-----	----	-----	-----	------	----	----	-----	-----

Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
------------	---	---	---	---	---	---	---	---	---	---	---	---

PasserByVol:	0	0	0	0	0	0	0	4	0	0	3	0
--------------	---	---	---	---	---	---	---	---	---	---	---	---

Initial Fut:	23	19	29	292	38	231	154	1006	31	38	992	330
--------------	----	----	----	-----	----	-----	-----	------	----	----	-----	-----

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:	23	19	29	292	38	231	154	1006	31	38	992	330
-------------	----	----	----	-----	----	-----	-----	------	----	----	-----	-----

Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
-------------	---	---	---	---	---	---	---	---	---	---	---	---

Reduced Vol:	23	19	29	292	38	231	154	1006	31	38	992	330
--------------	----	----	----	-----	----	-----	-----	------	----	----	-----	-----

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:	23	19	29	292	38	231	154	1006	31	38	992	330
--------------	----	----	----	-----	----	-----	-----	------	----	----	-----	-----

Saturation Flow Module:

Sat/Lane:	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
-----------	------	------	------	------	------	------	------	------	------	------	------	------

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:	0.32	0.27	0.41	0.88	0.12	1.00	1.00	1.94	0.06	1.00	2.00	1.00
--------	------	------	------	------	------	------	------	------	------	------	------	------

Final Sat.:	486	401	613	1327	173	1500	1500	2910	90	1500	3000	1500
-------------	-----	-----	-----	------	-----	------	------	------	----	------	------	------

Capacity Analysis Module:

Vol/Sat:	0.05	0.05	0.05	0.22	0.22	0.15	0.10	0.35	0.35	0.03	0.33	0.22
----------	------	------	------	------	------	------	------	------	------	------	------	------

Crit Volume:	23	330	519	38
--------------	----	-----	-----	----

Crit Moves:	****	****	****	****
-------------	------	------	------	------

*****

**Year 2014 Without Project**

Tropico Apartments  
 Year 2014 Without Project  
 Morning Peak Hour

Level Of Service Computation Report

Circular 212 Planning Method (Future Volume Alternative)

*****  
 Intersection #1 Seneca Avenue (NS) at Los Feliz Boulevard (EW)  
 *****

Cycle (sec): 100 Critical Vol./Cap. (X): 0.478  
 Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx  
 Optimal Cycle: 100 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			Permitted			Permitted										
Rights:	Include			Include			Include			Include										
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10								
Lanes:	0	0	1	0	0	0	1	0	0	1	1	0	1	1	0	1	0	2	0	1

Volume Module:

Base Vol:	7	1	17	34	2	22	20	729	17	9	1170	63
Growth Adj:	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
Initial Bse:	7	1	18	35	2	23	21	758	18	9	1217	66
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	34	0	0	53	0
Initial Fut:	7	1	18	35	2	23	21	792	18	9	1270	66
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:	7	1	18	35	2	23	21	792	18	9	1270	66
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	7	1	18	35	2	23	21	792	18	9	1270	66
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
Final Volume:	7	1	18	35	2	23	21	792	18	9	1270	66

Saturation Flow Module:

Sat/Lane:	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
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:	0.28	0.04	0.68	0.94	0.06	1.00	1.00	1.96	0.04	1.00	2.00	1.00
Final Sat.:	420	60	1020	1417	83	1500	1500	2935	65	1500	3000	1500

Capacity Analysis Module:

Vol/Sat:	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.27	0.27	0.01	0.42	0.04
Crit Volume:	26			35			21			635		
Crit Moves:	****			****			****			****		



Tropico Apartments  
 Year 2014 Without Project  
 Evening Peak Hour

Level Of Service Computation Report

Circular 212 Planning Method (Future Volume Alternative)

*****  
 Intersection #1 Seneca Avenue (NS) at Los Feliz Boulevard (EW)  
 *****

Cycle (sec): 100 Critical Vol./Cap. (X): 0.652  
 Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx  
 Optimal Cycle: 100 Level Of Service: B  
 *****

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			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Lanes:	0	0	1	0	1	0	1	0	1	1	0	2

Volume Module:	North Bound			South Bound			East Bound			West Bound		
Base Vol:	23	19	29	292	38	231	154	1002	31	38	989	330
Growth Adj:	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
Initial Bse:	24	20	30	304	40	240	160	1042	32	40	1029	343
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	68	0	0	53	0
Initial Fut:	24	20	30	304	40	240	160	1110	32	40	1082	343
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:	24	20	30	304	40	240	160	1110	32	40	1082	343
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	24	20	30	304	40	240	160	1110	32	40	1082	343
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:	24	20	30	304	40	240	160	1110	32	40	1082	343

Saturation Flow Module:	North Bound			South Bound			East Bound			West Bound		
Sat/Lane:	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
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:	0.32	0.27	0.41	0.88	0.12	1.00	1.00	1.94	0.06	1.00	2.00	1.00
Final Sat.:	486	401	613	1327	173	1500	1500	2915	85	1500	3000	1500

Capacity Analysis Module:	North Bound			South Bound			East Bound			West Bound		
Vol/Sat:	0.05	0.05	0.05	0.23	0.23	0.16	0.11	0.38	0.38	0.03	0.36	0.23
Crit Volume:	24			343			571			40		
Crit Moves:	****			****			****			****		

*****

**Year 2014 With Project**

Tropico Apartments  
 Year 2014 With Project  
 Morning Peak Hour

Level Of Service Computation Report

Circular 212 Planning Method (Future Volume Alternative)

*****  
 Intersection #1 Seneca Avenue (NS) at Los Feliz Boulevard (EW)  
 *****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.479  
 Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx  
 Optimal Cycle: 100 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			Permitted			Permitted										
Rights:	Include			Include			Include			Include										
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10								
Lanes:	0	0	1	0	0	0	1	0	0	1	1	0	1	1	0	1	0	2	0	1

Volume Module:

Base Vol:	7	1	17	34	2	22	20	729	17	9	1170	63
Growth Adj:	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
Initial Bse:	7	1	18	35	2	23	21	758	18	9	1217	66
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	36	0	0	57	0
Initial Fut:	7	1	18	35	2	23	21	794	18	9	1274	66
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:	7	1	18	35	2	23	21	794	18	9	1274	66
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	7	1	18	35	2	23	21	794	18	9	1274	66
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:	7	1	18	35	2	23	21	794	18	9	1274	66

Saturation Flow Module:

Sat/Lane:	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
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:	0.28	0.04	0.68	0.94	0.06	1.00	1.00	1.96	0.04	1.00	2.00	1.00
Final Sat.:	420	60	1020	1417	83	1500	1500	2935	65	1500	3000	1500

Capacity Analysis Module:

Vol/Sat:	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.27	0.27	0.01	0.42	0.04
Crit Volume:	26			35			21			637		
Crit Moves:	****			****			****			****		

Tropico Apartments  
 Year 2014 With Project  
 Evening Peak Hour

Level Of Service Computation Report

Circular 212 Planning Method (Future Volume Alternative)

*****  
 Intersection #1 Seneca Avenue (NS) at Los Feliz Boulevard (EW)  
 *****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.653  
 Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx  
 Optimal Cycle: 100 Level Of Service: B  
 *****

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			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Lanes:	0	0	1 0 0	0	1	0 0 1	1	0	1 1 0	1	0	2 0 1

Volume Module:

Base Vol:	23	19	29	292	38	231	154	1002	31	38	989	330
Growth Adj:	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
Initial Bse:	24	20	30	304	40	240	160	1042	32	40	1029	343
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	72	0	0	56	0
Initial Fut:	24	20	30	304	40	240	160	1114	32	40	1085	343
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:	24	20	30	304	40	240	160	1114	32	40	1085	343
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	24	20	30	304	40	240	160	1114	32	40	1085	343
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:	24	20	30	304	40	240	160	1114	32	40	1085	343

Saturation Flow Module:

Sat/Lane:	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
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:	0.32	0.27	0.41	0.88	0.12	1.00	1.00	1.94	0.06	1.00	2.00	1.00
Final Sat.:	486	401	613	1327	173	1500	1500	2916	84	1500	3000	1500

Capacity Analysis Module:

Vol/Sat:	0.05	0.05	0.05	0.23	0.23	0.16	0.11	0.38	0.38	0.03	0.36	0.23
Crit Volume:	24			343			573			40		
Crit Moves:	****			****			****			****		



# KUNZMAN ASSOCIATES, INC.

OVER 35 YEARS OF EXCELLENT SERVICE

1111 Town & Country Road, Suite 34  
Orange, California 92868  
(714) 973-8383

[www.traffic-engineer.com](http://www.traffic-engineer.com)



May 13, 2013

AVALON LAND COMPANY, LLC  
c/o Mr. Dale Kim, Project Executive  
MITAA MANAGEMENT, LLC  
3200 Wilshire Boulevard, Suite 1100 North Tower  
Los Angeles, CA 90010

Dear Mr. Kim:

## INTRODUCTION

The firm of Kunzman Associates, Inc. is pleased to provide this traffic analysis addendum for the Glen Village Apartments project in the City of Glendale. This traffic analysis is an addendum to the Glen Village Apartments Traffic Impact Analysis prepared by Kunzman Associates, Inc. (August 31, 2012). Based upon a discussion with City of Glendale staff, this traffic analysis focuses on the intersection of Seneca Avenue/Los Feliz Boulevard in the City of Los Angeles. It should be noted that the Glen Village Apartments project is not projected to add 50 or more trips to the Seneca Avenue/Los Feliz Boulevard intersection during either the morning or evening weekday peak periods requiring analysis based upon the Congestion Management Program criteria.

The Glen Village Apartments project is located on the northwest corner of Gardena Avenue and Los Feliz Road in the City of Glendale. The proposed development consists of 238 dwelling units of mid-rise apartments.

Although this is a technical report, every effort has been made to write the report clearly and concisely. To assist the reader with those terms unique to transportation engineering, a glossary of terms is provided in Appendix A.

## ANALYSIS METHODOLOGY

In the City of Los Angeles, the Transportation Research Board Critical Movement Analysis, Circular 212 Planning Methodology, is used to analyze traffic operating conditions at the study intersections. Critical Movement Analysis is a method which determines the volume to capacity ratio on a critical lane basis and Level of Service associated with each volume to capacity ratio at a signalized intersection.

The Levels of Service have been calculated for the Seneca Avenue/Los Feliz Boulevard intersection. Existing Levels of Service are based upon manual morning and evening peak hour intersection turning movement counts obtained by Kunzman Associates, Inc. in April 2013. Traffic count worksheets are provided in Appendix B.

AVALON LAND COMPANY, LLC  
c/o Mr. Dale Kim, Project Executive  
May 13, 2013

The Seneca Avenue/Los Feliz Boulevard intersection currently operates at Level of Service B or better during the peak hours for Existing traffic conditions. Existing Level of Service worksheets are provided in Appendix C.

The Seneca Avenue/Los Feliz Boulevard intersection is projected to operate at Level of Service B or better during the peak hours for Existing Plus Project traffic conditions. Existing Plus Project Level of Service worksheets are provided in Appendix C.

The Seneca Avenue/Los Feliz Boulevard intersection is projected to operate at Level of Service B or better during the peak hours for Year 2014 Without Project traffic conditions. Year 2014 Without Project Level of Service worksheets are provided in Appendix C.

The Seneca Avenue/Los Feliz Boulevard intersection is projected to operate at Level of Service B or better during the peak hours for Year 2014 With Project traffic conditions. Year 2014 With Project Level of Service worksheets are provided in Appendix C.

#### DEFINITION OF DEFICIENCY

If the intersection has to be analyzed for deficiencies, then mitigation is required if the existing traffic plus anticipated traffic growth plus project traffic does cause the Levels of Service to go above a certain point.

In the City of Los Angeles, the impact is considered significant for intersections if the project related increase in the volume to capacity ratio equals or exceeds the threshold shown below:

City of Los Angeles Significant Impact Threshold for Signalized Intersections		
Level of Service	Volume/Capacity	Incremental Increase
C	0.70-0.79	0.04 or more
D	0.80-0.89	0.02 or more
E/F	0.90 - more	0.01 or more

#### CONCLUSIONS

The proposed development is not projected to generate a significant impact at the City of Los Angeles intersection at Seneca Avenue/Los Feliz Boulevard.

AVALON LAND COMPANY, LLC  
c/o Mr. Dale Kim, Project Executive  
May 13, 2013

It has been a pleasure to service your needs on this project. Should you have any questions or if we can be of further assistance, please do not hesitate to call at (714) 973-8383.

Sincerely,

KUNZMAN ASSOCIATES , INC.



Carl Ballard, LEED GA  
Principal Associate

#5172a



KUNZMAN ASSOCIATES, INC.



William Kunzman, P.E.  
Principal



**APPENDIX A**

**GLOSSARY OF TRANSPORTATION TERMS**

## GLOSSARY OF TRANSPORTATION TERMS

### COMMON ABBREVIATIONS

AC:	Acres
ADT:	Average Daily Traffic
Caltrans:	California Department of Transportation
DU:	Dwelling Unit
ICU:	Intersection Capacity Utilization
LOS:	Level of Service
TSF:	Thousand Square Feet
V/C:	Volume/Capacity
VMT:	Vehicle Miles Traveled

### TERMS

**AVERAGE DAILY TRAFFIC:** The total volume during a year divided by the number of days in a year. Usually only weekdays are included.

**BANDWIDTH:** The number of seconds of green time available for through traffic in a signal progression.

**BOTTLENECK:** A constriction along a travelway that limits the amount of traffic that can proceed downstream from its location.

**CAPACITY:** The maximum number of vehicles that can be reasonably expected to pass over a given section of a lane or a roadway in a given time period.

**CHANNELIZATION:** The separation or regulation of conflicting traffic movements into definite paths of travel by the use of pavement markings, raised islands, or other suitable means to facilitate the safe and orderly movements of both vehicles and pedestrians.

**CLEARANCE INTERVAL:** Nearly same as yellow time. If there is an all red interval after the end of a yellow, then that is also added into the clearance interval.

**CORDON:** An imaginary line around an area across which vehicles, persons, or other items are counted (in and out).

**CYCLE LENGTH:** The time period in seconds required for one complete signal cycle.

**CUL-DE-SAC STREET:** A local street open at one end only, and with special provisions for turning around.

**DAILY CAPACITY:** The daily volume of traffic that will result in a volume during the peak hour equal to the capacity of the roadway.

**DELAY:** The time consumed while traffic is impeded in its movement by some element over which it has no control, usually expressed in seconds per vehicle.

**DEMAND RESPONSIVE SIGNAL:** Same as traffic-actuated signal.

**DENSITY:** The number of vehicles occupying in a unit length of the through traffic lanes of a roadway at any given instant. Usually expressed in vehicles per mile.

**DETECTOR:** A device that responds to a physical stimulus and transmits a resulting impulse to the signal controller.

**DESIGN SPEED:** A speed selected for purposes of design. Features of a highway, such as curvature, superelevation, and sight distance (upon which the safe operation of vehicles is dependent) are correlated to design speed.

**DIRECTIONAL SPLIT:** The percent of traffic in the peak direction at any point in time.

**DIVERSION:** The rerouting of peak hour traffic to avoid congestion.

**FORCED FLOW:** Opposite of free flow.

**FREE FLOW:** Volumes are well below capacity. Vehicles can maneuver freely and travel is unimpeded by other traffic.

**GAP:** Time or distance between successive vehicles in a traffic stream, rear bumper to front bumper.

**HEADWAY:** Time or distance spacing between successive vehicles in a traffic stream, front bumper to front bumper.

**INTERCONNECTED SIGNAL SYSTEM:** A number of intersections that are connected to achieve signal progression.

**LEVEL OF SERVICE:** A qualitative measure of a number of factors, which include speed and travel time, traffic interruptions, freedom to maneuver, safety, driving comfort and convenience, and operating costs.

**LOOP DETECTOR:** A vehicle detector consisting of a loop of wire embedded in the roadway, energized by alternating current and producing an output circuit closure when passed over by a vehicle.

**MINIMUM ACCEPTABLE GAP:** Smallest time headway between successive vehicles in a traffic stream into which another vehicle is willing and able to cross or merge.

**MULTI-MODAL:** More than one mode; such as automobile, bus transit, rail rapid transit, and bicycle transportation modes.

**OFFSET:** The time interval in seconds between the beginning of green at one intersection and the beginning of green at an adjacent intersection.

**PLATOON:** A closely grouped component of traffic that is composed of several vehicles moving, or standing ready to move, with clear spaces ahead and behind.

**ORIGIN-DESTINATION SURVEY:** A survey to determine the point of origin and the point of destination for a given vehicle trip.

**PASSENGER CAR EQUIVALENTS (PCE):** One car is one Passenger Car Equivalent. A truck is equal to 2 or 3 Passenger Car Equivalents in that a truck requires longer to start, goes slower, and accelerates slower. Loaded trucks have a higher Passenger Car Equivalent than empty trucks.

**PEAK HOUR:** The 60 consecutive minutes with the highest number of vehicles.

**PRETIMED SIGNAL:** A type of traffic signal that directs traffic to stop and go on a predetermined time schedule without regard to traffic conditions. Also, fixed time signal.

**PROGRESSION:** A term used to describe the progressive movement of traffic through several signalized intersections.

**SCREEN-LINE:** An imaginary line or physical feature across which all trips are counted, normally to verify the validity of mathematical traffic models.

**SIGNAL CYCLE:** The time period in seconds required for one complete sequence of signal indications.

**SIGNAL PHASE:** The part of the signal cycle allocated to one or more traffic movements.

**STARTING DELAY:** The delay experienced in initiating the movement of queued traffic from a stop to an average running speed through a signalized intersection.

**TRAFFIC-ACTUATED SIGNAL:** A type of traffic signal that directs traffic to stop and go in accordance with the demands of traffic, as registered by the actuation of detectors.

**TRIP:** The movement of a person or vehicle from one location (origin) to another (destination). For example, from home to store to home is two trips, not one.

**TRIP-END:** One end of a trip at either the origin or destination; i.e. each trip has two trip-ends. A trip-end occurs when a person, object, or message is transferred to or from a vehicle.

**TRIP GENERATION RATE:** The quality of trips produced and/or attracted by a specific land use stated in terms of units such as per dwelling, per acre, and per 1,000 square feet of floor space.

**TRUCK:** A vehicle having dual tires on one or more axles, or having more than two axles.

**UNBALANCED FLOW:** Heavier traffic flow in one direction than the other. On a daily basis, most facilities have balanced flow. During the peak hours, flow is seldom balanced in an urban area.

**VEHICLE MILES OF TRAVEL:** A measure of the amount of usage of a section of highway, obtained by multiplying the average daily traffic by length of facility in miles.

**APPENDIX B**

**TRAFFIC COUNT WORKSHEETS**

# Intersection Turning Movement

Prepared by:

## National Data & Surveying Services

Project ID: CA13_5219_001

Day: WEDNESDAY

City: City of Glendale

Date: 4/24/2013

AM

NS/EW Streets:	Seneca Ave			Seneca Ave			Los Feliz Blvd			Los Feliz Blvd			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
	0	1	0	.5	.5	1	1	2	0	1	2	1	
7:00 AM	2	4	3	13	0	8	6	92	2	3	221	11	365
7:15 AM	2	0	2	8	0	7	1	101	3	4	236	14	378
7:30 AM	3	1	5	12	0	9	6	136	2	0	250	5	429
7:45 AM	0	0	7	10	0	1	5	198	4	3	292	12	532
8:00 AM	2	1	3	7	0	4	4	170	3	2	286	12	494
8:15 AM	2	0	3	9	2	5	4	179	5	2	309	23	543
8:30 AM	3	0	4	8	0	12	7	182	5	2	283	16	522
8:45 AM	4	0	2	9	2	8	3	196	4	7	266	14	515
<b>TOTAL VOLUMES :</b>	18	6	29	76	4	54	36	1254	28	23	2143	107	3778
<b>APPROACH %'s :</b>	33.96%	11.32%	54.72%	56.72%	2.99%	40.30%	2.73%	95.14%	2.12%	1.01%	94.28%	4.71%	
<b>PEAK HR START TIME :</b>	745 AM												<b>TOTAL</b>
<b>PEAK HR VOL :</b>	7	1	17	34	2	22	20	729	17	9	1170	63	2091
<b>PEAK HR FACTOR :</b>	0.893			0.725			0.925			0.930			0.963

CONTROL : Signalized

# Intersection Turning Movement

Prepared by:

## National Data & Surveying Services

Project ID: CA13_5219_001

Day: WEDNESDAY

City: City of Glendale

Date: 4/24/2013

PM

NS/EW Streets:	Seneca Ave			Seneca Ave			Los Feliz Blvd			Los Feliz Blvd			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	0	1	0	.5	.5	1	1	2	0	1	2	1	
4:00 PM	7	5	10	71	11	55	32	222	4	6	232	62	717
4:15 PM	6	4	1	68	9	65	34	233	12	6	231	84	753
4:30 PM	3	4	6	76	11	65	39	263	5	12	233	84	801
4:45 PM	9	7	7	58	9	56	44	265	8	6	237	71	777
5:00 PM	4	4	8	85	10	55	41	230	12	9	271	84	813
5:15 PM	7	4	8	73	8	55	30	244	6	11	248	91	785
5:30 PM	5	1	9	60	9	57	26	236	5	7	251	64	730
5:45 PM	2	4	11	73	14	76	33	290	10	10	209	85	817
<b>TOTAL VOLUMES :</b>	43	33	60	564	81	484	279	1983	62	67	1912	625	6193
<b>APPROACH %'s :</b>	31.62%	24.26%	44.12%	49.96%	7.17%	42.87%	12.01%	85.33%	2.67%	2.57%	73.43%	24.00%	
<b>PEAK HR START TIME :</b>	430 PM												<b>TOTAL</b>
<b>PEAK HR VOL :</b>	23	19	29	292	38	231	154	1002	31	38	989	330	3176
<b>PEAK HR FACTOR :</b>	0.772			0.923			0.936			0.932			0.977

CONTROL : Signalized



**APPENDIX C**

**EXPLANATION AND CALCULATION OF  
INTERSECTION CAPACITY UTILIZATION**

## EXPLANATION AND CALCULATION OF INTERSECTION CAPACITY UTILIZATION

### Overview

The ability of a roadway to carry traffic is referred to as capacity. The capacity is usually greater between intersections and less at intersections because traffic flows continuously between them and only during the green phase at them. Capacity at intersections is best defined in terms of vehicles per lane per hour of green. If capacity is 1600 vehicles per lane per hour of green, and if the green phase is 50 percent of the cycle and there are three lanes, then the capacity is 1600 times 50 percent times 3 lanes, or 2400 vehicles per hour for that approach.

The technique used to compare the volume and capacity at an intersection is known as Intersection Capacity Utilization. Intersection Capacity Utilization, usually expressed as a percent, is the proportion of an hour required to provide sufficient capacity to accommodate all intersection traffic if all approaches operate at capacity. If an intersection is operating at 80 percent of capacity (i.e., an Intersection Capacity Utilization of 80 percent), then 20 percent of the signal cycle is not used. The signal could show red on all indications 20 percent of the time and the signal would just accommodate approaching traffic.

Intersection Capacity Utilization analysis consists of (a) determining the proportion of signal time needed to serve each conflicting movement of traffic, (b) summing the times for the movements, and (c) comparing the total time required to the total time available. For example, if for north-south traffic the northbound traffic is 1600 vehicles per hour, the southbound traffic is 1200 vehicles per hour, and the capacity of either direction is 3200 vehicles per hour, then the northbound traffic is critical and requires  $1600/3200$  or 50 percent of the signal time. If for east-west traffic, 30 percent of the signal time is required, then it can be seen that the Intersection Capacity Utilization is 50 plus 30, or 80 percent. When left turn arrows (left turn phasing) exist, they are incorporated into the analysis. The critical movements are usually the heavy left turn movements and the opposing through movements.

The Intersection Capacity Utilization technique is an ideal tool to quantify existing as well as future intersection operation. The impact of adding a lane can be quickly determined by examining the effect the lane has on the Intersection Capacity Utilization.

### **Intersection Capacity Utilization Worksheets That Follow This Discussion**

The Intersection Capacity Utilization worksheet table contains the following information:

1. Peak hour turning movement volumes.
2. Number of lanes that serve each movement.
3. For right turn lanes, whether the lane is a free right turn lane, whether it has a right turn arrow, and the percent of right turns on red that are assumed.
4. Capacity assumed per lane.
5. Capacity available to serve each movement (number of lanes times capacity per lane).
6. Volume to capacity ratio for each movement.
7. Whether the movement's volume to capacity ratio is critical and adds to the Intersection Capacity Utilization value.
8. The yellow time or clearance interval assumed.
9. Adjustments for right turn movements.
10. The Intersection Capacity Utilization and Level of Service.

The Intersection Capacity Utilization Worksheet also has two graphics on the same page. These two graphics show the following:

1. Peak hour turning movement volumes.
2. Number of lanes that serve each movement.
3. The approach and exit leg volumes.
4. The two-way leg volumes.
5. An estimate of daily traffic volumes that is fairly close to actual counts and is based strictly on the peak hour leg volumes multiplied by a factor.

6. Percent of daily traffic in peak hours.
7. Percent of peak hour leg volume that is inbound versus outbound.

A more detailed discussion of Intersection Capacity Utilization and Level of Service follows.

### **Level of Service**

Level of Service is used to describe the quality of traffic flow. Levels of Service A to C operate quite well. Level of Service C is typically the standard to which rural roadways are designed.

Level of Service D is characterized by fairly restricted traffic flow. Level of Service D is the standard to which urban roadways are typically designed. Level of Service E is the maximum volume a facility can accommodate and will result in possible stoppages of momentary duration. Level of Service F occurs when a facility is overloaded and is characterized by stop-and-go traffic with stoppages of long duration.

A description of the various Levels of Service appears at the end of the ICU description, along with the relationship between Intersection Capacity Utilization and Level of Service.

### **Signalized and Unsignalized Intersections**

Although calculating an Intersection Capacity Utilization value for an unsignalized intersection is invalid, the presumption is that a signal can be installed and the calculation shows whether the geometrics are capable of accommodating the expected volumes with a signal. A traffic signal becomes warranted before Level of Service D is reached for a signalized intersection.

### **Signal Timing**

The Intersection Capacity Utilization calculation assumes that a signal is properly timed. It is possible to have an Intersection Capacity Utilization well below 100 percent, yet have severe traffic congestion. This would occur if one or more movements is not getting sufficient green time to satisfy its demand, and excess green time exists on other movements. This is an operational problem that should be remedied.

### **Lane Capacity**

Capacity is often defined in terms of roadway width; however, standard lanes have approximately the same capacity whether they are 11 or 14 feet wide. Our data indicates a typical lane, whether a through lane or a left turn lane, has a capacity of approximately 1750 vehicles per hour of green time, with nearly all locations showing a capacity greater than 1600 vehicles per hour of green per lane. Right turn lanes have a slightly lower capacity; however 1600 vehicles per hour is a valid capacity assumption for right turn lanes.

This finding is published in the August, 1978 issue of Institute of Transportation Engineers Journal in the article entitled, "Another Look at Signalized Intersection Capacity" by William Kunzman, P.E. A capacity of 1600 vehicles per hour per lane with no yellow time penalty, or 1700 vehicles per hour with a 3 or 5 percent yellow time penalty is reasonable.

### **Yellow Time**

The yellow time can either be assumed to be completely used and no penalty applied, or it can be assumed to be only partially usable. Total yellow time accounts for approximately 10 percent of a signal cycle, and a penalty of 3 to 5 percent is reasonable.

During peak hour traffic operation the yellow times are nearly completely used. If there is no left turn phasing, the left turn vehicles completely use the yellow time. Even if there is left turn phasing, the through traffic continues to enter the intersection on the yellow until just a split second before the red.

### **Shared Lanes**

Shared lanes occur in many locations. A shared lane is often found at the end of an off ramp where the ramp forms an intersection with the cross street. Often at a diamond interchange off ramp, there are three lanes. In the case of a diamond interchange, the middle lane is sometimes shared, and the driver can turn left, go through, or turn right from that lane.

If one assumes a three lane off ramp as described above, and if one assumes that each lane has 1600 capacity, and if one assumes that there are 1000 left turns per hour, 500 right turns per hour, and 100 through vehicles per hour, then how should one assume that the three lanes operate. There are three ways that it is done.

One way is to just assume that all 1600 vehicles (1000 plus 500 plus 100) are served simultaneously by three lanes. When this is done, the capacity is 3 times 1600 or 4800, and the amount of green time needed to serve the ramp is 1600 vehicles divided by 4800 capacity or 33.3 percent. This assumption effectively assumes perfect lane distribution between the three lanes that is not realistic. It also means a left turn can be made from the right lane.

Another way is to equally split the capacity of a shared lane and in this case to assume there are 1.33 left turn lanes, 1.33 right turn lanes, and 0.33 through lanes. With this assumption, the critical movement is the left turns and the 1000 left turns are served by a capacity of 1.33 times 1600, or 2133. The volume to capacity ratio of the critical move is 1000 divided by 2133 or 46.9 percent.

The first method results in a critical move of 33.3 percent and the second method results in a critical move of 46.9 percent. Neither is very accurate, and the difference in the calculated Level of Service will be approximately 1.5 Levels of Service (one Level of Service is 10 percent).

The way Kunzman Associates, Inc. does it is to assign fractional lanes in a reasonable way. In this example, it would be assumed that there is 1.1 right turn lanes, 0.2 through lanes, and 1.7 left turn lanes. The volume to capacity ratios for each movement would be 31.3 percent for the through traffic, 28.4 percent for the right turn movement, and 36.8 percent for the left turn movement. The critical movement would be the 36.8 percent for the left turns.

### **Right Turn on Red**

Kunzman Associates, Inc. software treats right turn lanes in one of five different ways. Each right turn lane is classified into one of five cases. The five cases are (1) free right turn lane, (2) right turn lane with separate right turn arrow, (3) standard right turn lane with no right turns on red allowed, (4) standard right turn lane with a certain percentage of right turns on red allowed, and (5) separate right turn arrow and a certain percentage of right turns on red allowed.

### **Free Right Turn Lane**

If it is a free right turn lane, then it is given a capacity of one full lane with continuous or 100 percent green time. A Free right turn lane occurs when there is a separate approach lane for right turning vehicles, there is a separate departure lane for the right turning vehicles after they turn and are exiting the intersection, and the through cross street traffic does not interfere with the vehicles after they turn right.

### **Separate Right Turn Arrow**

If there is a separate right turn arrow, then it is assumed that vehicles are given a green indication and can proceed on what is known as the left turn overlap.

The left turn overlap for a northbound right turn is the westbound left turn. When the left turn overlap has a green indication, the right turn lane is also given a green arrow indication. Thus, if there is a northbound right turn arrow, then it can be turned green for the period of time that the westbound left turns are proceeding.

If there are more right turns than can be accommodated during the northbound through green and the time that the northbound right turn arrow is on, then an adjustment is made to the Intersection Capacity Utilization to account for the green time that needs to be added to the northbound through green to accommodate the northbound right turns.

### **Standard Right Turn Lane, No Right Turns on Red**

A standard right turn lane, with no right turn on red assumed, proceeds only when there is a green indication displayed for the adjacent through movement. If additional green time is needed above that amount of time, then in the Intersection Capacity Utilization calculation a right turn adjustment green time is added above the green time that is needed to serve the adjacent through movement.

### **Standard Right Turn Lane, With Right Turns on Red**

A standard right turn lane with say 20 percent of the right turns allowed to turn right on a red indication is calculated the same as the standard right turn case where there is no right turn on red allowed, except that the right turn adjustment is reduced to account for the 20 percent of the right turning vehicles that can logically turn right on a red light. The right turns on red are never allowed to exceed the time the overlap left turns take plus the unused part of the green cycle that the cross street traffic moving from left to right has.

As an example of how 20 percent of the cars are allowed to turn right on a red indication, assume that the northbound right turn volume needs 40 percent of the signal cycle to be satisfied. To allow 20 percent of the northbound right turns to turn right on red, then during 8 percent of the signal cycle (40 percent of signal cycle times 20 percent that can turn right on red) right turns on red will be allowed if it is feasible.

For this example, assume that 15 percent of the signal cycle is green for the northbound through traffic, and that means that 15 percent of the signal cycle is

available to satisfy northbound right turns. After the northbound through traffic has received its green, 25 percent of the signal cycle is still needed to satisfy the northbound right turns (40 percent of the signal cycle minus the 15 percent of the signal cycle that the northbound through used).

Assume that the westbound left turns require a green time of 6 percent of the signal cycle. This 6 percent of the signal cycle is used by northbound right turns on red. After accounting for the northbound right turns that occur on the westbound overlap left turn, 19 percent of the signal cycle is still needed for the northbound right turns (25 percent of the cycle was needed after the northbound through green time was accounted for [see above paragraph], and 6 percent was served during the westbound left turn overlap). Also, at this point 6 percent of the signal cycle has been used for northbound right turns on red, and still 2 percent more of the right turns will be allowed to occur on the red if there is unused eastbound through green time.

For purpose of this example, assume that the westbound through green is critical, and that 15 percent of the signal cycle is unused by eastbound through traffic. Thus, 2 percent more of the signal cycle can be used by the northbound right turns on red since there is 15 seconds of unused green time being given to the eastbound through traffic.

At this point, 8 percent of the signal cycle was available to serve northbound right turning vehicles on red, and 15 percent of the signal cycle was available to serve right turning vehicles on the northbound through green. So 23 percent of the signal cycle has been available for northbound right turns.

Because 40 percent of the signal cycle is needed to serve northbound right turns, there is still a need for 17 percent more of the signal cycle to be available for northbound right turns. What this means is the northbound through traffic green time is increased by 17 percent of the cycle length to serve the unserved right turn volume, and a 17 percent adjustment is added to the Intersection Capacity Utilization to account for the northbound right turns that were not served on the northbound through green time or when right turns on red were assumed.

#### **Separate Right Turn Arrow, With Right Turns on Red**

A right turn lane with a separate right turn arrow, plus a certain percentage of right turns allowed on red is calculated the same way as a standard right turn lane with a certain percentage of right turns allowed on red, except the turns which occur on the right turn arrow are not counted as part of the percentage of right turns that occur on red.



### **Critical Lane Method**

Intersection Capacity Utilization parallels another calculation procedure known as the Critical Lane Method with one exception. Critical Lane Method dimensions capacity in terms of standardized vehicles per hour per lane. A Critical Lane Method result of 800 vehicles per hour means that the intersection operates as though 800 vehicles were using a single lane continuously. If one assumes a lane capacity of 1600 vehicles per hour, then a Critical Lane Method calculation resulting in 800 vehicles per hour is the same as an Intersection Capacity Utilization calculation of 50 percent since  $800/1600$  is 50 percent. It is our opinion that the Critical Lane Method is inferior to the Intersection Capacity Utilization method simply because a statement such as "The Critical Lane Method value is 800 vehicles per hour" means little to most persons, whereas a statement such as "The Intersection Capacity Utilization is 50 percent" communicates clearly. Critical Lane Method results directly correspond to Intersection Capacity Utilization results. The correspondence is as follows, assuming a lane capacity of 1600 vehicles per hour and no clearance interval.

<b><u>Critical Lane Method Result</u></b>	<b><u>Intersection Capacity Utilization Result</u></b>
800 vehicles per hour	50 percent
960 vehicles per hour	60 percent
1120 vehicles per hour	70 percent
1280 vehicles per hour	80 percent
1440 vehicles per hour	90 percent
1600 vehicles per hour	100 percent
1760 vehicles per hour	110 percent

**INTERSECTION CAPACITY UTILIZATION  
LEVEL OF SERVICE DESCRIPTION¹**

Level of Service	Description	Volume to Capacity Ratio
A	Level of Service A occurs when progression is extremely favorable and vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.	0.600 and below
B	Level of Service B generally occurs with good progression and/or short cycle lengths. More vehicles stop than for Level of Service A, causing higher levels of average delay.	0.601 to 0.700
C	Level of Service C generally results when there is fair progression and/or longer cycle lengths. Individual cycle failures may begin to appear in this level. The number of vehicles stopping is significant at this level, although many still pass through the intersection without stopping.	0.701 to 0.800
D	Level of Service D generally results in noticeable congestion. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high volume to capacity ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.	0.801 to 0.900
E	Level of Service E is considered to be the limit of acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high volume to capacity ratios. Individual cycle failures are frequent.	0.901 to 1.000
F	Level of Service F is considered to be unacceptable to most drivers. This condition often occurs when oversaturation, i.e., when arrival flow rates exceed the capacity of the intersection. It may also occur at high volume to capacity ratios below 1.00 with many individual cycle failures. Poor progression and long cycle lengths may also be major contributing causes to such delay levels.	1.001 and up

¹ Source: [Highway Capacity Manual](#) Special Report 209, Transportation Research Board, National Research Council Washington D.C., 2000.

**Existing**

Glen Village Apartments  
Existing  
Morning Peak Hour

Level Of Service Computation Report  
Circular 212 Planning Method (Base Volume Alternative)

*****

Intersection #1 Seneca Avenue (NS) at Los Feliz Boulevard (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.443  
 Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx  
 Optimal Cycle: 100 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			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Lanes:	0	0	1! 0 0	0	1	0 0 1	1	0	1 1 0	1	0	2 0 1

Volume Module:

Base Vol:	7	1	17	34	2	22	20	729	17	9	1170	63
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:	7	1	17	34	2	22	20	729	17	9	1170	63
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:	7	1	17	34	2	22	20	729	17	9	1170	63
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	7	1	17	34	2	22	20	729	17	9	1170	63
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:	7	1	17	34	2	22	20	729	17	9	1170	63

Saturation Flow Module:

Sat/Lane:	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
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:	0.28	0.04	0.68	0.94	0.06	1.00	1.00	1.95	0.05	1.00	2.00	1.00
Final Sat.:	420	60	1020	1417	83	1500	1500	2932	68	1500	3000	1500

Capacity Analysis Module:

Vol/Sat:	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.25	0.25	0.01	0.39	0.04
Crit Volume:	25			34			20			585		
Crit Moves:	****			****			****			****		

*****

Glen Village Apartments  
Existing  
Evening Peak Hour

Level Of Service Computation Report  
Circular 212 Planning Method (Base Volume Alternative)

*****

Intersection #1 Seneca Avenue (NS) at Los Feliz Boulevard (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.605  
Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx  
Optimal Cycle: 100 Level Of Service: B

*****

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			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Lanes:	0	0	1	0	0	1	1	0	1	1	0	1

Volume Module:

Base Vol:	23	19	29	292	38	231	154	1002	31	38	989	330
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:	23	19	29	292	38	231	154	1002	31	38	989	330
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:	23	19	29	292	38	231	154	1002	31	38	989	330
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	23	19	29	292	38	231	154	1002	31	38	989	330
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:	23	19	29	292	38	231	154	1002	31	38	989	330

Saturation Flow Module:

Sat/Lane:	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
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:	0.32	0.27	0.41	0.88	0.12	1.00	1.00	1.94	0.06	1.00	2.00	1.00
Final Sat.:	486	401	613	1327	173	1500	1500	2910	90	1500	3000	1500

Capacity Analysis Module:

Vol/Sat:	0.05	0.05	0.05	0.22	0.22	0.15	0.10	0.34	0.34	0.03	0.33	0.22
Crit Volume:	23			330			517			38		
Crit Moves:	****			****			****			****		

*****

**Existing Plus Project**

Glen Village Apartments  
Existing Plus Project  
Morning Peak Hour

Level Of Service Computation Report

Circular 212 Planning Method (Future Volume Alternative)

*****

Intersection #1 Seneca Avenue (NS) at Los Feliz Boulevard (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.444  
 Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx  
 Optimal Cycle: 100 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			Permitted			Permitted										
Rights:	Include			Include			Include			Include										
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10								
Lanes:	0	0	1	0	0	0	1	0	0	1	1	0	1	1	0	1	0	2	0	1

-----|-----|-----|-----|

Volume Module:

Base Vol:	7	1	17	34	2	22	20	729	17	9	1170	63
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:	7	1	17	34	2	22	20	729	17	9	1170	63
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	2	0	0	4	0
Initial Fut:	7	1	17	34	2	22	20	731	17	9	1174	63
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:	7	1	17	34	2	22	20	731	17	9	1174	63
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	7	1	17	34	2	22	20	731	17	9	1174	63
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:	7	1	17	34	2	22	20	731	17	9	1174	63

-----|-----|-----|-----|

Saturation Flow Module:

Sat/Lane:	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
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:	0.28	0.04	0.68	0.94	0.06	1.00	1.00	1.95	0.05	1.00	2.00	1.00
Final Sat.:	420	60	1020	1417	83	1500	1500	2932	68	1500	3000	1500

-----|-----|-----|-----|

Capacity Analysis Module:

Vol/Sat:	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.25	0.25	0.01	0.39	0.04
Crit Volume:	25			34			20			587		
Crit Moves:	****			****			****			****		

*****

Glen Village Apartments  
Existing Plus Project  
Evening Peak Hour

Level Of Service Computation Report  
Circular 212 Planning Method (Future Volume Alternative)

*****

Intersection #1 Seneca Avenue (NS) at Los Feliz Boulevard (EW)

*****

Cycle (sec): 100 Critical Vol./Cap. (X): 0.606  
Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx  
Optimal Cycle: 100 Level Of Service: B

*****

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			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Lanes:	0	0	1	0	1	0	1	0	1	1	0	2

Volume Module:

Base Vol:	23	19	29	292	38	231	154	1002	31	38	989	330
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:	23	19	29	292	38	231	154	1002	31	38	989	330
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	4	0	0	3	0
Initial Fut:	23	19	29	292	38	231	154	1006	31	38	992	330
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:	23	19	29	292	38	231	154	1006	31	38	992	330
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	23	19	29	292	38	231	154	1006	31	38	992	330
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:	23	19	29	292	38	231	154	1006	31	38	992	330

Saturation Flow Module:

Sat/Lane:	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
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:	0.32	0.27	0.41	0.88	0.12	1.00	1.00	1.94	0.06	1.00	2.00	1.00
Final Sat.:	486	401	613	1327	173	1500	1500	2910	90	1500	3000	1500

Capacity Analysis Module:

Vol/Sat:	0.05	0.05	0.05	0.22	0.22	0.15	0.10	0.35	0.35	0.03	0.33	0.22
Crit Volume:	23			330			519			38		
Crit Moves:	****			****			****			****		

*****



**Year 2014 Without Project**

Glen Village Apartments  
 Year 2014 Without Project  
 Morning Peak Hour

Level Of Service Computation Report  
 Circular 212 Planning Method (Future Volume Alternative)

*****

Intersection #1 Seneca Avenue (NS) at Los Feliz Boulevard (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.478

Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 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			Permitted			Permitted										
Rights:	Include			Include			Include			Include										
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10								
Lanes:	0	0	1	0	0	0	1	0	0	1	1	0	1	1	0	1	0	2	0	1

Volume Module:

Base Vol:	7	1	17	34	2	22	20	729	17	9	1170	63
Growth Adj:	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
Initial Bse:	7	1	18	35	2	23	21	758	18	9	1217	66
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	34	0	0	53	0
Initial Fut:	7	1	18	35	2	23	21	792	18	9	1270	66
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:	7	1	18	35	2	23	21	792	18	9	1270	66
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	7	1	18	35	2	23	21	792	18	9	1270	66
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:	7	1	18	35	2	23	21	792	18	9	1270	66

Saturation Flow Module:

Sat/Lane:	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
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:	0.28	0.04	0.68	0.94	0.06	1.00	1.00	1.96	0.04	1.00	2.00	1.00
Final Sat.:	420	60	1020	1417	83	1500	1500	2935	65	1500	3000	1500

Capacity Analysis Module:

Vol/Sat:	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.27	0.27	0.01	0.42	0.04
Crit Volume:	26			35			21			635		
Crit Moves:	****			****			****			****		

*****

Glen Village Apartments
Year 2014 Without Project
Evening Peak Hour

Level Of Service Computation Report
Circular 212 Planning Method (Future Volume Alternative)

*****

Intersection #1 Seneca Avenue (NS) at Los Feliz Boulevard (EW)

*****

Cycle (sec): 100 Critical Vol./Cap. (X): 0.652
Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx
Optimal Cycle: 100 Level Of Service: B

*****

Table with 4 columns: North Bound, South Bound, East Bound, West Bound. Rows include Approach, Movement, Control, Rights, Min. Green, and Lanes.

Volume Module:

Table with 13 columns representing traffic volume metrics. Rows include Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and FinalVolume.

Saturation Flow Module:

Table with 13 columns representing saturation flow metrics. Rows include Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with 13 columns representing capacity analysis metrics. Rows include Vol/Sat, Crit Volume, and Crit Moves.

*****

**Year 2014 With Project**

Glen Village Apartments  
 Year 2014 With Project  
 Morning Peak Hour

Level Of Service Computation Report

Circular 212 Planning Method (Future Volume Alternative)

*****

Intersection #1 Seneca Avenue (NS) at Los Feliz Boulevard (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.479  
 Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx  
 Optimal Cycle: 100 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			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Lanes:	0	0	1! 0	0	1	0 0 1	1	0	1 1 0	1	0	2 0 1

Volume Module:

Base Vol:	7	1	17	34	2	22	20	729	17	9	1170	63
Growth Adj:	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
Initial Bse:	7	1	18	35	2	23	21	758	18	9	1217	66
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	36	0	0	57	0
Initial Fut:	7	1	18	35	2	23	21	794	18	9	1274	66
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:	7	1	18	35	2	23	21	794	18	9	1274	66
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	7	1	18	35	2	23	21	794	18	9	1274	66
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:	7	1	18	35	2	23	21	794	18	9	1274	66

Saturation Flow Module:

Sat/Lane:	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
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:	0.28	0.04	0.68	0.94	0.06	1.00	1.00	1.96	0.04	1.00	2.00	1.00
Final Sat.:	420	60	1020	1417	83	1500	1500	2935	65	1500	3000	1500

Capacity Analysis Module:

Vol/Sat:	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.27	0.27	0.01	0.42	0.04
Crit Volume:	26			35			21			637		
Crit Moves:	****			****			****			****		

*****

Glen Village Apartments  
 Year 2014 With Project  
 Evening Peak Hour

Level Of Service Computation Report  
 Circular 212 Planning Method (Future Volume Alternative)

*****

Intersection #1 Seneca Avenue (NS) at Los Feliz Boulevard (EW)

*****

Cycle (sec): 100 Critical Vol./Cap.(X): 0.653

Loss Time (sec): 10 (Y+R=4.0 sec) Average Delay (sec/veh): xxxxxx

Optimal Cycle: 100 Level Of Service: B

*****

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			Permitted			Permitted		
Rights:	Include			Include			Include			Include		
Min. Green:	10	10	10	10	10	10	10	10	10	10	10	10
Lanes:	0	0	1	0	1	0	1	0	1	1	0	2

Volume Module:

Base Vol:	23	19	29	292	38	231	154	1002	31	38	989	330
Growth Adj:	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
Initial Bse:	24	20	30	304	40	240	160	1042	32	40	1029	343
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	72	0	0	56	0
Initial Fut:	24	20	30	304	40	240	160	1114	32	40	1085	343
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:	24	20	30	304	40	240	160	1114	32	40	1085	343
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	24	20	30	304	40	240	160	1114	32	40	1085	343
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:	24	20	30	304	40	240	160	1114	32	40	1085	343

Saturation Flow Module:

Sat/Lane:	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
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:	0.32	0.27	0.41	0.88	0.12	1.00	1.00	1.94	0.06	1.00	2.00	1.00
Final Sat.:	486	401	613	1327	173	1500	1500	2916	84	1500	3000	1500

Capacity Analysis Module:

Vol/Sat:	0.05	0.05	0.05	0.23	0.23	0.16	0.11	0.38	0.38	0.03	0.36	0.23
Crit Volume:	24			343			573			40		
Crit Moves:	****			****			****			****		

*****



August 23, 2013

Mr. Michael Genthe, Managing Director  
MILL CREEK  
949 South Coast Drive, Suite 400  
Costa Mesa, CA 92626

Dear Mr. Genthe:

## INTRODUCTION

The firm of Kunzman Associates, Inc. is pleased to provide this trip generation comparison analysis for the Tropico Apartments project in the City of Glendale. This analysis supplements the Glen Village Apartments Traffic Impact Analysis prepared by Kunzman Associates, Inc. (August 31, 2012). The Tropico Apartments project is located on the northwest corner of Gardena Avenue and Los Feliz Road in the City of Glendale.

## DEVELOPMENT DESCRIPTION

The previous development consisted of 238 dwelling units of mid-rise apartments with a parking structure that had driveway access via Fernando Court.

The current development consists of 225 dwelling units of mid-rise apartments with a parking structure that has driveway access via Fernando Court. The current project site plan is shown on Figure 1.

## TRIP GENERATION COMPARISON

The trips generated by the project are determined by multiplying an appropriate trip generation rate by the quantity of land use. Trip generation rates are predicated on the assumption that energy costs, the availability of roadway capacity, the availability of vehicles to drive, and our life styles remain similar to what we know today. A major change in these variables may affect trip generation rates.

Trip generation rates were determined for daily traffic, morning peak hour inbound and outbound traffic, and evening peak hour inbound and outbound traffic for the project land use. By multiplying the trip generation rates by the land use quantity, the traffic volumes are determined. Table 1 shows the trip generation rates, project peak hour volumes, and project daily traffic volumes. The trip generation rates are from the Institute of Transportation Engineers, Trip Generation, 9th Edition, 2012.

The previous project was projected to generate approximately 1,428 daily vehicle trips, 71 of which will occur during the morning peak hour and 93 of which will occur during the evening peak hour (see Table 1).

Mr. Michael Genthe, Managing Director  
MILL CREEK  
August 23, 2013

The current project is projected to generate approximately 1,350 daily vehicle trips, 67 of which will occur during the morning peak hour and 88 of which will occur during the evening peak hour (see Table 1).

Trip generation comparison calculations are located in Table 1. The difference in vehicle trips and percent difference in vehicle trips are calculated. The current project compared to the previous project is projected to generate approximately 78 less daily vehicle trips, 4 less of which will occur during the morning peak hour and 5 less of which will occur during the evening peak hour. The current project compared to the previous project is projected to generate approximately 5.5 percent less daily vehicle trips, 5.6 percent less of which will occur during the morning peak hour and 5.4 percent less of which will occur during the evening peak hour.

## CONCLUSIONS

The following measures are consistent with the recommendations with the Glen Village Apartments Traffic Impact Analysis prepared by Kunzman Associates, Inc. (August 31, 2012) to mitigate project-related traffic impacts in the immediate vicinity of the site:

1. Eastbound left-turn storage modification and protected left turn arrow at the intersection of Gardena Avenue and Los Feliz Road specified by the City of Glendale Traffic & Transportation Division.
2. A two (2) foot widening, restriping and an associated dedication of right-of-way adjacent to the site's entire frontage on Gardena Avenue. (It should be noted that approximately 9 parking spaces will be lost as a result of the street widening.)
3. A five (5) foot widening, restriping and an associated dedication of right-of-way along the site's entire frontage on Fernando Court. (It should be noted that approximately 7 parking spaces will be lost because of the street widening.)
4. A two (2) foot widening and restriping along the south side of Fernando Court between Gardena Avenue and San Fernando Road.
5. Sufficient on-site parking shall be provided to meet the project's peak parking demand.
6. Sight distance at the project accesses should be reviewed with respect to California Department of Transportation/City of Glendale standards in conjunction with the preparation of final grading, landscaping, and street improvement plans.
7. On-site traffic signing and striping should be implemented in conjunction with detailed construction plans for the project.
8. As is the case for any roadway design, the City of Glendale should periodically review traffic operations in the vicinity of the project once the project is constructed to assure that the traffic operations are satisfactory.



Mr. Michael Genthe, Managing Director  
MILL CREEK  
August 23, 2013

It has been a pleasure to service your needs on this project. Should you have any questions or if we can be of further assistance, please do not hesitate to call at (714) 973-8383.

Respectfully submitted,

KUNZMAN ASSOCIATES, INC.

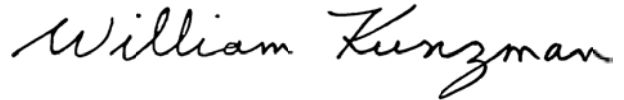


Carl Ballard, LEED GA  
Principal Associate

#5487



KUNZMAN ASSOCIATES, INC.



William Kunzman, P.E.  
Principal

**Table 1**

**Trip Generation Comparison**

Land Use	Quantity	Units ¹	Peak Hour						Daily
			Morning			Evening			
			Inbound	Outbound	Total	Inbound	Outbound	Total	
<u>Previous Project</u>									
Mid-Rise Apartments ²	238	DU	21	50	71	55	38	93	1,428
<u>Current Project</u>									
Mid-Rise Apartments ³	225	DU	20	47	67	52	36	88	1,350
Difference			-1	-3	-4	-3	-2	-5	-78
Percent Difference			-4.8%	-6.0%	-5.6%	-5.5%	-5.3%	-5.4%	-5.5%

¹ DU = Dwelling Units

² The previous project trip generation is from the Glen Village Apartments Traffic Impact Analysis prepared by Kunzman Associates, Inc. (August 31, 2012).

³ The current project trip generation is based on trip generation rates were from the Institute of Transportation Engineers, Trip Generation, 9th Edition, 2012, Land Use Category 223.

Figure 1  
Current Site Plan

